

2024 Annual Performance Report

Town of Newmarket Stormwater Management System

Environmental Compliance Approval (ECA) No. 124-S701

Prepared by: Climate, Environment and Sustainability Business Unit

For any inquiries related to the information contained in this report or the format it is shared, please contact the Town by phone (905-895-5193) or by email: climate@newmarket.ca

ECA No.: 124-S701, Issue No. 1 System Owner: Corporation of the Town of Newmarket System Name: Town of Newmarket Stormwater Management System Reporting Period: February 1st to December 31st, 2024 Submitted To: Director, Ministry of the Environment, Conservation and Parks (MECP) Report Date: April 25, 2025

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Executive Summary

The Town of Newmarket's municipal stormwater management (SWM) system consists of 241 km of storm sewers, 37 wet ponds, 21 dry ponds, 4 superpipe storage facilities and 17 low impact development (LID) sites. The Town's municipal SWM system manages runoff to reduce the risk of flooding and erosion to protect people and properties and helps to protect our natural environment by improving water quality before it drains to nearby streams and rivers.

Newmarket's SWM system is operated in conformance with the Province's Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) program. The CLI-ECA is issued to the Town under the Environmental Protection Act to fulfil requirements in section 53 of the Ontario Water Resources Act. Ontario's CLI-ECA program for stormwater infrastructure provides a consistent set of conditions for all municipalities to alter, operate, and maintain their municipal SWM systems. Participation in the program is mandatory.

The Town of Newmarket's CLI-ECA, issued August 1st, 2023, defines the terms and conditions of operation within Newmarket's municipal SWM system. In accordance with the CLI-ECA agreement, the Town is required to prepare an annual performance report for the period of January 1st to December 31st of the preceding year. The report is to be provided to the Ministry of Environment, Conservation and Parks (MECP) and be made available to the public.

The 2024 Annual Performance Report represents the Town's first Annual Report and summarizes the work undertaken as part of the CLI-ECA program between February 1st to December 31st, 2024. Furthermore, the Annual Report helps to identify and create baseline information to assist with ongoing monitoring, reporting and continual improvement of the system performance.

There were no inspections by the MECP during this reporting period.

2024 Stormwater Annual Performance Report

In accordance with the CLI-ECA, the Town of Newmarket, as the Owner of the municipal stormwater management system, shall prepare and submit a performance report to the MECP on an annual basis.

The CLI-ECA requires the Annual Performance Report to contain the following:

- i) Summary of all monitoring data along with an interpretation of the data and an overview of the condition and operational performance of the Authorized System and any Adverse Effects on the Natural Environment.
- ii) Summary and interpretation of environmental trends based on all monitoring information and data for the previous 5 years.
- iii) Summary of any operating problems encountered, and corrective actions taken.
- iv) Summary of all inspections, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanism, or thing forming part of the Authorized System.
- v) Summary of calibration and maintenance carried out on all monitoring equipment.
- vi) Summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.
- vii) Summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat.
- viii) Summary of all spills or abnormal discharge events.
- ix) Summary of actions taken, including timelines, to improve or correct performance of any aspect of the Authorized System.
- x) Summary of the status of actions for the previous reporting year.

For the purpose of the Town's CLI-ECA and this report, an Alteration is defined as an extension of the system, a replacement or retirement of part of the system, or a modification of, addition to, or enlargement of the system. It does not include repairs to the system.

Introduction

The Town's municipal stormwater management (SWM) system is a core municipal asset that helps to manage runoff, minimize flood risk and erosion, and protects the natural environment. The Town is committed to providing safe and effective management of stormwater runoff while maintaining, and where possible, improving ecosystem health.

The Town is responsible for managing stormwater infrastructure within municipally owned lands, or where there is an easement, or other instrument in three main ways:

- 1. The planning, design, and approval of municipal stormwater infrastructure.
- 2. Routine maintenance over the life of the stormwater infrastructure.
- 3. Renewal and replacement of infrastructure at life cycle milestones.

This Report is prepared to satisfy new reporting requirements by the Ministry of the Environment, Conservation and Parks (MECP) as related to municipal SWM systems. In 2020, the MECP informed municipalities of the new *Area-Wide* Consolidated Linear Infrastructure - Environmental Compliance Approval (CLI-ECA), which will replace all existing ECAs with a single over-arching approval document. The new *Area-Wide* CLI-ECA requires the submission of an annual performance report and documentation of the operation of municipal SWM systems. It also provides benefits and efficiencies to the Town, such as pre-authorizations for minor modifications, expansions, and alterations to the system. The following report was generated from records maintained by the Town of Newmarket from February 1st to December 31st, 2024. Future Annual Performance Reports will cover from January 1st to December 31st of the preceding year. As per the conditions of the Town's CLI-ECA, the first report is to cover the period of six months after issuance of the final CLI-ECA to December 31st of that year. The issuance of the final CLI-ECA was August 1st, 2023

Description of the SWM System

The municipal SWM system is owned and operated by the Town of Newmarket. The municipal SWM system includes 79 assumed SWM features, including:

- 37 wet ponds
- 21 dry ponds
- 4 superpipe storage facilities; and
- 17 Low Impact Development (LID) sites

The municipal SWM system also contains all other controls and appurtenances that are essential for the operation of the works.

(a) Summary and Interpretation of Monitoring Data

As per the Town's CLI-ECA, the monitoring plan will be in place on or before December 31, 2026, or within 36 months from the date of the publication of the MECP's SWM Monitoring Guidance Document, whichever is later. At the time of this annual report, the MECP has not published their SWM Monitoring Guidance Document.

While there is no formal environmental impact monitoring plan in place yet, the Town operates programs to maintain continued operational performance of the SWM system, such as inspection programs, pond cleanouts, LID maintenance, etc.

In 2024, the Lake Simcoe Region Conservation Authority (LSRCA), delivered Stormwater Inspection and Maintenance Prioritization services for the Town of Newmarket to assist in meeting the requirements of the CLI-ECA.

Through this project, 77 stormwater features were inspected, including CCTV inspection of the Forest Glen LID features, set up of water level monitoring infrastructure in all wet ponds, hydraulic monitoring of 12 wet ponds, and sediment accumulation surveys of 3 wet ponds.

The hydraulic assessments are used to evaluate several key functions of wet ponds, including inlet/outlet function and evidence of clogging or leaking, drawdown time after a precipitation event, and normal water level (NWL) (the normal water level is the standard water depth the pond is designed to drain to within 24 to 48 hours of a precipitation or snowmelt events). The hydraulic assessments use pressure sensors to monitor water levels. The recorded data is compared to the original construction details to confirm the pond is functioning as designed. The following table summarizes the results of the hydraulic monitoring of the 12 SWM ponds.

Hydraulic Function (difference from NWL)*	Number of SWM Ponds
+/- 0.1m	5
+/- 0.1-0.4m	2
+/- 0.4-0.7m	1
> +/- 0.7m	4

Table 1. Hydraulic Monitoring Results (2024)

* If the drawdown time to NWL was greater than the designed 24 to 48 hours, the hydraulic function rating for the pond was increased one level. (e.g. if the NWL was within 0.1m of design, but the drawdown time was greater than the 24-hour design time, the pond was assigned a minor rating rather than good.

Two minor quality ponds were found to be impacted by high water levels in the receiving watercourse. These ponds discharge to the same watercourse. One pond is scheduled for sediment cleanout in 2026, at that time both ponds will have the hydraulic issues addressed.

Moreover, there was a pond that appeared to have a beaver dam in the receiving watercourse causing high water levels, not allowing the pond to drain properly. Removal of the downstream dam is expected to allow the pond to drain to the NWL.

Lastly, there was a pond that was observed to drain below the designed NWL. The level logger was initially installed in the pond's forebay; however, it was relocated to the aftbay in September 2024 to further explore the anomaly. Conditions since September have been dry without enough precipitation to evaluate the drawdown function. The Town will be continuing hydraulic monitoring of this pond in 2025 to further investigate.

Based on the data collected and reviewed, there were no reported adverse effects on the natural environment. Continuous improvement and optimization remain a priority for staff.

(b) Interpretation of Environmental Trends

As per the Town's CLI-ECA, a summary of interpretation of environmental trends is required based on all monitoring information and data for the previous five years. This section is currently a placeholder for future years once the environmental impact monitoring program has been initiated.

(c) Operating Problems and Corrective Actions

The table below provides a summary of the operating problems encountered during the reporting period that required corrective action for the system to function as designed.

Location	Operating Problem	Corrective Action
Pond 19 – Revell Rd. Dry Pond	Clogged outlet at SWM Pond	Vac truck used to unclog outlet.
Pond 95 – Ford Wilson Wet Pond	Beaver dam restricting flow in SWM Pond	Installed a flow balancing culvert (aka, beaver baffler) to help control water levels.
Pond 14 – Bartholomew Dr. Hybrid Pond	Eroded concrete pads at headwall	Three inlets at Pond 14 were inspected in 2024. Two of the three inlets showed signs of erosion and undercutting around the concrete pad. The two concrete pads were replaced to improve the function and structural integrity of the headwall.
Pond 77 – Cane Parkway Wet Pond	Failed armourstone retaining wall	The armourstone retaining wall on one side of the inlet to the wet pond had failed. The Town hired a consultant to design and oversee the construction to repair the retaining wall back to its intended function.
Pond 44 – George Richardson Park Wet Pond	Flooding issues in the Wayne Drive and Waratah Avenue area	Project is currently ongoing and involves installing a berm around the Waratah Avenue channel outlet (ditch inlet to storm sewer structure) and construct an improved inlet with trash deflection.

Table 2. Operating Problems and Corrective Actions (2024)

Minor deficiencies completed during the reporting period are covered in Section (d). This includes clearing of obstructed stormwater management structures blocked by trash, debris, sediment, overgrown vegetation, etc.

(d) Inspection, Maintenance, and Repairs

In 2024 the Town developed an Operations and Maintenance (O&M) Manual as required by the CLI-ECA. The O&M manual provides a structured framework for the ongoing inspection, maintenance, and repair activities of the Authorized System. It is intended for use by Town staff responsible for completing stormwater O&M activities, including contractors and any third-party service providers.

For this reporting period, all inspections, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanism, or thing forming part of the Authorized System were performed by trained Town staff or performed on behalf of the Town by a qualified contracted service who exercises due diligence in ensuring the works within the Authorized System are properly operated and maintained.

The implementation of routine inspection programs is critical in identifying damage or concerns within existing stormwater infrastructure, allowing for the timely repair and maintenance prior to the escalation of these problems. The following table outlines the general inspection work that takes place throughout the year.

SWM Feature	Components Inspected	Frequency
SWM Ponds	 Structure condition Erosion Visible pollution Vegetation condition Graffiti Algae blooms Invasive species 	Annually
Superpipes	Structure conditionSediment depthDebris accumulation	As needed
Oil Grit Separators	 Structure condition Sediment depth Oil depth Presence of floatable 	Annually
Permeable Pavers	Surface pondingVegetation conditionSediment buildup	Annually
Rain Gardens	 Structure condition Planning condition Weeds/Invasives Plants Surface ponding 	Annually
Bioswales	 Structure condition Erosion Surface ponding Vegetation Condition Obstructions Visible pollution 	Annually

 Table 3. Inspection Programs

Catch basins	Structure conditionSediment depthDebris accumulation	4-year rotation and after major rainfall events
Storm Sewers	 Structure condition Sediment depth Debris accumulation 	As needed
Maintenance Holes	 Structure condition Sediment depth Debris accumulation 	As needed
Driveway Culverts	 Structure condition Sediment depth Debris accumulation 	As needed
Outlets	Structure conditionDebris accumulation	As needed and at certain locations before major rainfall events

In 2024, the LSRCA delivered stormwater inspection and maintenance services for 77 stormwater features, including 37 wet ponds, 21 dry ponds, 3 superpipe storage facilities, and 16 LID sites. As-well as CCTV inspection of the Forest Glen LID feature.

A prioritized maintenance list based on the inspection findings was developed utilizing LSRCA's Stormwater Maintenance Prioritization Tool. The list considered condition, maintenance needs, and prioritization as a basis for subsequent maintenance phases. Where invasive species were identified, the type of invasive species, and status compared to previous years was recorded to aid in future maintenance activities.

Ongoing maintenance and repair of the Town's existing stormwater system is essential in ensuring these assets are functioning as intended, providing effective water quality and quantity control meeting regulatory requirements, and safeguarding the public. The implementation of a maintenance and repair program helps avoid unexpected repair or replacement costs, allowing for the lifespan of the system to be prolonged and minimizing the number of disruptions to the public.

The need for maintenance and repair of stormwater infrastructure within the Town is identified through inspection results or in response to complaints received by residents. Minor repairs or maintenance is completed by the Water/Wastewater, Operations, Parks, or Forestry Department(s) as applicable, otherwise, substantial repairs are deferred to the Town's Capital Delivery – Infrastructure group. The following table summarizes the general maintenance and repair work that takes place throughout the year.

SWM Feature	Description of Work
SWM Pond Sediment Cleanout	Dewatering, sediment removal and disposal, regrading, and restoration
SWM Pond Infrastructure Maintenance	Unclogging of inlets/outlets, debris removal, vegetation removal, etc.
Superpipe	Flushing of accumulated sediment/debris and repair of minor cracks
Waste Removal from Manufactured Treatment	Vac truck to remove sediment, oil, and debris
Devices	captured in unit

Table 4. Maintenance Programs

Permeable Pavers	Removal of debris and sediment along surface, vegetation maintenance, etc.
Rain Gardens	Replacement of dead/dying plants, re-mulching, and removal of weeds/invasive plants
Bioswales	Sediment removal, unclogging of inlets and outlets, etc.
Catch basins	Unclogging of grates, removal of debris and sediment
Storm Sewers	Flushing of sediment and repair of minor cracks
Maintenance Holes	Removal of debris and sediment accumulated in sump, adjustment of collar and lid as needed
Driveway Culverts	Flushing of sediment and debris, and standard replacement of damaged culverts up to 8-metres
Outlets	Removal of accumulated debris
Invasive Species Removal	Removal and management of invasive vegetation, e.g., phragmites
Wildlife Removal and Control	Control of beavers, goldfish, etc.

(e) Calibration and Maintenance of Monitoring Equipment

This section is currently a placeholder for future years.

(f) Complaints

The CLI-ECA requires that the Town maintains a record of all stormwater-related complaints and the remedial actions taken to resolve them. Town staff make every effort to respond to residents in a timely manner.

All public complaints, including those related to stormwater infrastructure, are received and actively managed by the Town's Customer Service Department. All complaints received are entered into the Town's Customer Relationship Management (CRM) software, which generates a ticket to formally document the complaint and assign a priority level (from level 1 to level 4) for addressing the concern.

Depending on the nature of the complaint, the ticket is then assigned to the designated department with sufficient authority and capacity to address the scope of the complaint. The assigned department is responsible for reporting back to the Customer Service Department through the CRM system once the complaint has been addressed. Customer Service staff are responsible for following up with the resident who initially issued the complaint. All work completed as part of this CRM system is tracked through the tickets and are recorded under various subtypes for analysis and reporting.

In 2024, there were 70 complaints regarding the Town's SWM system. In some instances, there were multiple complaints for the same issue. The following table summarizes the complaints received during this reporting period.

Type of Complaint	Description	Corrective Actions	Number of Complaints
SWM Pond Concerns lssues related to the condition and maintenance, including structural problems, sediment build-up, vegetation overgrowth, and debris buildup.		Conduct inspections, perform repairs, remove sediment, manage vegetation, and clear debris. If tasks cannot be handled internally, work (ex. pond cleanout) is contracted out.	16
Catch basin Issues	Concerns about catch basins, including clogging, structural damage, odour, poor drainage, and spills.	Clear blockages, repair/replace damaged catch basins, patch-up sinking/erosion issues, fix drainage problems, and cleanup spills.	42
Wildlife-Related Concerns	Complaints related to wildlife activity, particularly beavers causing obstructions or damming of water flow.	Forestry is notified of the issue. Active beaver sites are regularly monitored, and portions of dams are strategically dismantled to ensure proper water flow.	12

Table 5. Summary of Complaints (2024)

The most common complaints Town staff received related to the SWM system were:

- Beavers
- Clogged catch basins
- Sinking catch basins

All resident complaints were promptly addressed and investigated by Town staff. Persistent issues are addressed through additional investigation, maintenance or repairs of infrastructure, or operational adjustments. During heavy rain events, the Town may receive calls from residents who have issues with an increase in stormwater from neighbouring properties or basement flooding from lot drainage or sanitary connections. These issues were not included in this report because they are related to private property and not Town SWM infrastructure.

(g) Alterations to the Authorized System

As part of the CLI-ECA, the Town is responsible for ensuring the conditions and minimum design requirements, as determined by the Province, are met for all Alterations of the Town's SWM system and any Alteration that poses a Significant Drinking Water Threat (SDWT) is properly identified and mitigated. Table 6 provides a summary of all Alterations to the Town's SWM system during the reporting period authorized by the CLI-ECA.

Table 6. Proposed Alterations Assessment (2024)

Project Name	Project Name Proposed Alteration		SDWT	Status
Millard/Church/ElmStorm and sanitaRoad Reconstructionsewer installatio		Sewage System or Sewage Works	No	Construction ongoing
Ray Twinney Recreation Complex Rain Gardens	Storm and sanitary sewer installation	Storm and sanitary sewer installation	No	Construction ongoing
Bennington Tennis Courts	Storm and sanitary sewer installation	Storm and sanitary No No		Construction ongoing
Mulock Park	Storm and sanitary sewer installation	Storm and sanitary sewer installation	No	Construction ongoing

As per the above table, no proposed alterations by the Town posed a SDWT for this reporting period.

(h) Spills and Discharges

The SWM system had 5 spill events in 2024. All spills were reported to the Spills Action Centre (SAC) as required either by the responsible party or by Town staff. A summary of each spill event that occurred in the SWM system during the reporting period including the date of occurrence, the cause of spill, and the corrective action can be found in the table below.

Table 7.	Summary of	Spills a	and Discharge	Events (2024)

Date	Spill/Discharge Event	Description	Corrective Action	
June 14 Red Deer Street (Catch basin)		Resident draining paint and spilling into nearby catch basin.	Water/Wastewater Dept. inspected, confirmed dried paint, system operational.	
June 18	Wood Duck Lane (Catch basin)	Chemical spray spilling into nearby catch basin.	Water/Wastewater Dept. inspected, had resident clean up spill.	
July 4	Wildwood Drive (Catch basin)	Possible concrete residue spilling into nearby catch basin.	Water/Wastewater Dept. inspected; no concerns identified.	
August 7	Lyman Boulevard (Catch basin)	Resident draining cement residue and spilling into nearby catch basin.	Water/Wastewater Dept. inspected and cleaned out catch basin.	
August 7	Roywood Crescent (Catch basin)	Resident draining paint and spilling into nearby catch basin.	Water/Wastewater Dept. inspected, confirmed dried paint, system operational.	

Notification of spills are typically received through public complaints or discovered by Town staff while in the field. Should notification of a spill be reported to the Customer Service Department, a ticket is generated and sent to the appropriate department to have the incident site investigated immediately. First response staff are responsible for observing the field conditions of the incident site to validate the information provided in the spill notification. Following confirmation of the spill, the spill is reported to the SAC immediately.

First response staff will report to the Operator-In-Charge (OIC), who will act as a central point of contact for managing all aspects related to the spill response (i.e., assigning tasks, maintain regular communication, on-going progress of clean-up activities, etc.).

(i) System Performance Improvements

Stormwater performance improvements from capital and operating projects for the Town's SWM system during the reporting period are summarized below.

1. LSRCA Inspection, Maintenance, and Prioritization Services

In 2024, the LSRCA delivered Stormwater Inspection and Maintenance Prioritization services for the Town to assist in meeting the requirements of the CLI-ECA.

Through this project, 77 stormwater features were inspected, including CCTV inspection of the Forest Glen LID features, set up of water level monitoring infrastructure in all wet ponds, hydraulic monitoring of 12 wet ponds, and sediment accumulation surveys of 3 wet ponds.

A prioritized maintenance list based on the inspection findings was developed utilizing LSRCA's Stormwater Maintenance Prioritization Tool. The list considered condition, maintenance needs, and prioritization as a basis for subsequent maintenance phases. It also included recommendations for future investigations and testing, maintenance and rehabilitation activities, and specific plans for 2025.

2. Pond Cleanout Prioritization List

A cleanout and repair plan has been developed out until the year 2033 based on the bathymetric survey report (2021) prepared by Wood Environmental Consulting. This plan is being used to prioritize sediment cleanouts and repair work for the Town's wet ponds.

3. Dry Pond Capacity and Retrofit Study

Resilient Consulting was retained by the Town to complete a dry pond capacity and retrofit study on 18 dry ponds. For each pond, a topographic survey was completed to determine the current available storage, and sediment volumes. Pond deficiencies encountered during the surveys were noted and criteria for sediment cleanout and retrofit works was established. This led to identifying retrofit opportunities for each pond. A priority ranking was developed to guide the Town's future sediment cleanout and retrofit initiatives for the Town's dry ponds.

4. Pond 39, 44, and 73 Cleanouts

This capital project included the sediment removal at three wet ponds. Removing the accumulated sediment reduces environmental impacts downstream and restores the treatment efficiency and storage capacity back to their intended design, enhancing their longevity and performance.

5. Routine Maintenance

Routine activities were completed to continue to improve function and performance of the Town's SWM system. Some of these routine maintenance activities include manufactured treatment device sediment and oil removal, outlet maintenance, and wildlife management.

(j) Previous Reporting Year Update

This section is to include a summary of the status of actions for the previous reporting year. Because this is the inaugural year for the new CLI-ECA and the required Annual Performance Report, there are no pre-existing actions. The Annual Performance Report for 2025 will include a status update on the action items identified in this report.

Appendix A



		Street Name (P) = Private Street	Street Map Grid	Fred Evans Court Fred Hagan Court	C2 E4	Oaktree Cresent Oakwood Court	B7 E2
		Adam Place Ainsworth Drive	C3 D5	Frederick Curran Lane	A2, B2	Old Bathurst Street Old Main Street	A6, A7 D2
	LID Street Man Grid	Alex Doner Drive Alexander Road Alf Neely Way	A3, B3, A4, B4 E3, E4 B4	Gagnon Place Gail Parks Cresent Gaston Place	B2 D5	On Bogart Circle (P) Ontario Street Orchid Gardens (P)	=5 D3 B3
	 LID001 C3 	Alfred Court Alfred Smith Way	D7 B2 D4 E4	Gault Grove (future) Geer Terrace (P)	C6 E4	Orsi Drive Osborne Family Way	E4 B2, B3
	LID002 B2	Allure Street Amberlee Court	B3 A4	Gerald Brady Lane (P) Gibney Crescent (P)	E4 A5	Osmond Crescent Otton Road	C2 A4
	 LID003 E4 LID004 05 	Amelia Street Andrew Street	C3,D3 C4, D4 C4	Gibson Court Gilpin Drive Gladman Avenue	D3 B2 C4	Pam Crescent	P E3 C4 D4
	 LID004 C5 LID005 C5 	Arden Avenue Armitage Drive	C4 C5	Glenrose Road Glenway Circle	C5 B4	Park Court Parkside Drive	D3 C3
	 LID006 D4 	Arnold Crescent Art West Avenue Art Westlake Avenue	E3, E4 B2 F7	Glover Lane Goldsmith Crescent Goodyear Crescent	E1, E2 C6 D5	Parkview Crescent Parnham Avenue (P) Patterson Street	C4 A5 E2, D3
	LID007 D4	Arthur Street Asa Street	D4, E4 D3	Gord Clelland Gate Gordon Circle	A2 E5	Patti McCulloch Way Paxton Crescent	A2, A3 B5
	 LID008 C3,C4 LID000 D3 	Ash Drive Ashley Place Ashton Road	C3 F2 E3	Gorham Street Goring Circle Grace Street	D4, E4, F4 E7, F7 D3, E3	Pearson Street Peevers Crescent Pelletier Court	D5 B4 D6
	 LID009 D3 LID010 D3 	Ashworth Drive Aspenwood Drive	D1, D2 B1, C1	Grainger Crescent Granby Place	F6, F7 D3	Pembridge Court Penn Avenue	A5 C3, D3
	 LID011 A3 	Astor Drive Ataire Road Atkins Drive	C5 E6 E7, F7	Grant Blight Crescent Greenfield Crescent Greig Circle	C2 E2 D5	Penn Avenue East Penrose Street Perrin Avenue	D3 D5 D4
	 LID012 A3 	Aubrey Court Austinpaul Drive	C4 B5	Groves Terrace (P) Gwillimbury Road	D4 D3	Peter Hall Drive Peterwood Court	B6 E4
	 LID013 A3 LID014 B4 	Bahen Court	E6	Haines Road Hamilton Drive	D1, D2 E3	Petheram Place Pickering Crescent Pinder Avenue	E5 D6
	 LID014 B4 LID015 F3 	Ballard Crescent Banbrooke Crescent Banksia Court	B7, C7 B6 E2	Hamilton Street Hampton Court Handley Crescent	D4 C2 C5	Pine Street Plantation Gate Playter Crescent	D4 B5 B7
	LID018 D3	Barbara Road Bartholomew Drive	C3 B5	Hans Pfaff Court Harden Trail	E6 F7	Pleasantview Avenue Plymouth Trail	D4 C2
	 LID021 D4 LID022 C4 	Bathurst Street Bayley Court Bayview Avenue	A1, A2, A3, A4, A5, A6, A7 E7 D5, D6, D7	Harding Park Street (P) Harewood Boulevard Harrison Drive	B3 C2, D2 C2, C3	Ponting Place Pony Drive Poplar Lane	06 F2, F3 D4
	 LID022 C4 LID023 D3 	Bayview Parkway Beare Trail	E1, E2, D2, D3 B3, B4	Harry Beer Court Harry Douglas Street	D5 D6	Poppy Lane Portland Cresent	E6, E7, F7 C2
	 LID024 D6, E6 	Belfry Drive Beman Drive	E3 E3	Harry Walker Parkway N Harry Walker Parkway S	F1, F2, F3, F4 F4, F5	Premier Place Prest Way	=7 E4, E5 A2
~~	LID025 E1	Bennett Street Bennington Road	B3 B7 B7 C7	Hartford Cresent Hazelwood Drive	B7 E4	Priddle Road Primrose Lane Pritobord Place (P)	A5 C2 E4
	 LID026 D3 LID027 B4 	Bert Budd Avenue Best Circle	D5 D7	Helena Court Helmer Street	D6 C4	Prospect Street Puck's Place	+ D3, D4, D5 D6
	 LID027 B4 LID028 A2 	Beswick Drive Bethpage Crescent Bexhill Road	C5 B4 D2	Heman Street Herbcain Avenue Herridge Circle	D3 B3, B4 F1, F2	Quaker Trail Quantra Crescent	Q D6 F6 F7
	• LID029 A3	Billings Crescent Binns Avenue	C1, C2 A4	Heswall Lane (P) Hewitt Circle (P)	B3 A5	Queen Street Queen's Crescent	C3, D4, E3 D4
	 LID030 C3 LID034 C3 	Birchwood Drive Birkdale Place (P) Blackhall Crescent	E3 B4 E7	Hibiscus Court Highland Avenue Highland Blade Road	E2 E3 E6, E7	Queen's Lane Quick Street	D3, D4 Ē7 R
	O LIDU31 C3	Blackstock Road Blencowe Crescent	E5 F7	Highway 404 Hill Gate	F1, F2, F3, F4, F5, F6, F7 E2	Raglan Street Ralston Crescent	D4 E7
		Bob Gapp Drive Bob Scott Court Bogart Avenue	E6 E4	Hill Street Hillview Drive Hilton Boulevard	C3 C3 D7	Rannie Road Ray Snow Boulevard Reading Place	35 A2, B2 D2
	SWMF Location	Bogartown Curve Bogart Mill Trail (P) Bolton Avonuo	E5 E5	Hilton Byrne Court Hodgson Drive	F6 C5	Red Deer Street Red River Crescent	D2 B2, B3 B2 B4
	SWMF ID Street Map Grid	Bondi Avenue Bonshaw Avenue	D5 B2, C2	Hollander Road Hope Circle (P)	E5 C6	Renzius Court Revell Road	D5 C7
-DAVIS-D	ı∠ A4 14 B5	Boothbay Crescent Borden Avenue Borland Court	C4 C5 A4	Hopper Lane Howard Road Howlett Avenue	A3 E3 E3	Richard Avenue	A4 C4 E5
	18 B7	Boronia Crescent Bosworth Court	E2 C7	Humeniuk Court (P) Huron Heights Drive	E4 E2, E3	Ringwell Drive Riordan Court	F1
	19 C6	Botany Hill Crescent Bothwell Crescent Botsford Street	E2 B5 C4, D4	Hutchcroft Court	вз	кıta's Avenue Roadhouse Boulevard Robellino Court	в1, B2 D6, E6
	22 C7 26 D5	Brammar Street Brandy Lane Way (P)	B4 B5, C5	Irwin Crescent Isaac Phillips Way	D3 B7	Robertson Place (P) Robin Court	D4 C3
	29 D7	Bravo Lane Bray Circle (P) Brickell Place (P)	B3 E2, F2 A4	Jacarandah Drive	E2, F2	Rockway Court Rockway Court	55 E2, D3 D5
	30 D7	Brimson Drive Bristol Road	B4 C1, D1, C2, D2	Jack Giles Circle (P) Jack Rettie Court	A5 C2 E2 E2	Rogers Road Ross Patrick Crescent	C5 A3, B3
	33 A6 34 D6	Brooker Ridge Brooks Howard Court	D7 D1	James Avenue James Street	C4 E4	Roywood Crescent	D3, E4 C5
	35 D6	Brookstone Place Broughton Lane Brown Court	D7 E7 B3	Janette Street Jeff Smith Court (P)	E2, F2 E4 F2	Rushbrook Drive Rutledge Avenue	A5, B5 E3 C3
	36 D6	Brunton Place Buckingham Road	E3 C2, D2	Jelley Avenue Jim Barber Court	C7 D2	Salisbury Lane	s D2
	38 E5 39 E4	Bulmer Crescent Burford Street Burgess Crescent	A3 D1, D2 B6	Joe Persechini Drive John Bowser Crescent	B6, B7 B3 D4	Sandford Street Savage Road Sawmill Valley Drive	C4, C5, C6 B6, C6, B7, C7 B6
	40 E6	Burling Place	E3	John Street Jordanray Boulevard	D4 D4 B5	Schaeffer Outlook Scott Avenue	D7 C4
	43 D2	Caldwell Street Calgain Road (P partial) Cape Parkway	E3 C3 C5 D5	Joseph Street Journey's End Circle	D4 F3 C4	Second Street Secretariate Road Selby Crescent	D5 E7 D2
	44 D2 54 D3	Capella Street Caradonna Crescent (P)	B3 B6	Kalinda Road	B7	Septonne Avenue	B5 C3
	55 B6	Carberry Street Cardinal Crescent Caribou Valley Circle (P)	D6 C3 B7, C7	Karl Rose Trail Kathryn Crescent Keffer Circle	A2, B2 C4 C6, C7	Shadrach Drive Shanahan Boulevard Sheffield Street	C7, D7 B6, B7 C2
	58 C6	Carlisle Street Carlissa Run	C2 A3, B3	Keith Avenue Kelly Crescent	A5 E1, E2	Sheldon Avenue Sheridan Court	C3 D4
	63 E4	Carlson Drive Carm Shier Court Carol Avenue	E3, E4 D6 C4	Kemp Road Ken Bishop Way Kensit Avenue	E2 A3 C7	Sherman Brock Circle Sherwood Place Shoniker Drive	Ē6, E7, F6, F7 C4 B7
	66 B4	Carr Circle (P) Carruthers Avenue	B3 A5	Kent Drive Kerrisdale Boulevard	D5 F1, F2	Shortreed Terrace Silken Laumann Drive	F7 C6, D6
	67 B3	Cassie Road Cawthra Boulevard Cedar Street	C4, C5 D4	Kingsmere Avenue Kingston Road	E6, E7 C2	Sincoe Street Simon Street	D3 D3
	68 B2	Cedarwood Avenue Cenotaph Boulevard Chaleur Place	E5 E7 E6	Kinrara Court Kirby Crescent Knapton Drive	D7 B4 B2 B3	Simpson Road Sir Ivor Court Sister Avenue	C5 E7 B6
	71 B6	Chambers Crescent Charles Street	C6 D3	Knott End Crescent (P) Krista Court	B3 E2	Skelton Street Skinner Avenue	D4 D6
	72 B2	Charlotte Street North Charlotte Street South Cherrywood Drive	D3 D4 C3	Kwapis Boulevard La Quinta Lane	B1, B2 - B4	Skye Court (P) Sloss Court Society Crescent	D6 A2 B6
	73 D7 74 D5	Cheryl Mews Boulevard Chester Avenue	A3, B3 D2	Laker Court Lambeth Court	A2 E4	Solstice Circle Somerville Drive	B3 D6
	75 D4	Chilicott Crescent Church Street Clancey Crescent	B3 D4 E5	Lancaster Avenue Landresse Court LaPlante Street	E7 B7	South Service Road (P) Southwind Court Sparrow Road	56 E5 E4
	76 E4	Clay Stones Street Clearmeadow Boulevard	B3 A5, B5	Laurelwood Gate Lavas Road	D7 E5	Spillette Court Spruce Grove Crescent	D2 B1, B2
	77 C5	Clematis Road Cliff Gunn Road Clifford Perry Place	A3 A2	Leeder Court Legge Court Legion Avenue	D3, E3 E4 D4, E4	Srigley Street Stackhouse Road Stafford Place	D4, E4 F4 C2
	80 B4	Cloverdale Court Coachwhip Trail	C5 B2, C2	Legresley Lane Lemar Road	D5 E4	Stanley Street Stellar Drive	C4 F2
	81 B4	Coleridge Drive College Manor Drive	B6 D5, E5	Leslie Valley Drive Lewis Drive	E1, E2, F1 C4	Steven Court Stewart Street	D6 D4, D5
	82 E5	College Street Colter Street Columbia Court	D5 B6 F2	Lexus Court Limpert Terrace (P)	D5 D5 C3	Stickwood Court Stiver Drive Stonebaven Avenue	D4 C2 D6 D7 E7
	85 D1	Columbus Way Comfort Lane	B6 D7	Little Court Liverpool Road	E4 C2	Stuffles Cresent Sunnypoint Drive	E7, F7 E2
	86 D2	Concession Street Connecticut Lane Cotter Street	D4 B7 D5	Lloyd Avenue Lockwood Circle London Road	C5 E7 C2. D2	Superior Street Surgeoner Crescent Surin Court	D3 B5 E5
	88 E1	Court Street Coventry Hill Trail	D4 A6	Londry Court Longford Drive	D5 C3	Sutherland Avenue Sweetwater Crescent	E5 A3
	99 F2 91 C5	Creebridge Crescent Creekfront Way (P) Crescent Road	E7 E5 D4	Lorne Avenue Lowe Boulevard Lowell Avenue	C3, C4, C5 E3 E4	Sydor Court Sykes Road	C6 A4 T
	92 C5	Cresta Rider Place Crone Court Crossland Coto	E6 C3 B3 B4	Luck Court Luesby Lane	A2 E2 D6	Talbot Crescent Tallantine Place	C5 E7 B3
	94 B3 95 B2	Crowder Boulevard	E4, E5 A2, A3	Lundy's Lane Lydia Street	D3 D4	Tapestry Lane (P) Tecumseth Street	D6 D4
	96 D6	Crusader Way Culler Mews	E4 D7 C5	Lyman Boulevard Lytham Green Circle (P)	D7 B3	Tegal Place Terry Carter Crescent (P) Terry Drive	E7
	97 B7	Dales Avenue	E3	Macedonia Court Maciver Boulevard (P)	B6 A4	Thoms Crescent Thornwillow Court	C5 E4
	98 F5 99 B3	Damascus Court D'Arcy Street Darlington Crescent	E/ D4 D2	MacNab Gate (P) Madeline Heights Mae Brooks Drive	ل C7 A3, B3	Inree Seasons Drive Timothy Street Tom Taylor Crescent (P)	<u>-4</u> C4, D4 B5
	101 F4	Davis Drive Davis Drive West	C3, D3, E3, F3 A3, B3, C3 B2, C2	Magnolia Avenue Maguire Road Main Street North	E2 B3 D1 D2 D2	Towercrest Drive Trailhead Avenue	C5 B2 E1 E2
	102 E7	Dean Burton Lane Deerfield Road (P)	B2	Main Street North Bypass Main Street South	D2 D3, D4	Tugwell Place (P) Twinney Drive	_ 1, D5 F3
	103 A2 211 F7	Delano Way Denise Circle	B3 B5 D3	Malton Road Malvern Crescent Manchester Drive	C2 D1, D2, D3 C2	United Circle (P)	U C6 B3
	212 E7	Dennie Avenue Derby Court	C5 C2	Manning Crescent Mantopic Road	E3 E6	Urbana Lane	B3 V
	212 E7	Devanjan Circle Dillman Avenue Dixon Boulevard	E5 D6, D7 C4, C5	Maple Street Maple Hill Court Marble Place	E4 F5 B2	Vale Avenue Valley Green Trail Vanden Bergh Boulevord	D4
	213 D6 214 D7	Doak Lane (P) Don Mor Drive	E4 C5	Mariner Lane Market Square	E6 D4	Vantage Loop Veale Place	B3 E5
	214 D7 215 D2	Donald Court Donlin Aveune	A5 C4	Marlin Court Marsden Court Mary Street	C3 B4	Vermont Avenue Vernon Place	B7 E1 E7
	216 B6	Dorchester Street Doris Crescent	D1, D2 C1	Matthew Boyd Cresent Mathews Court	B2 A3, A4	Vice Regent Place Victoria Street	_7 E6 D4
	217 D5	Doubletree Lane Doug Duncan Drive Dover Crescent	B5 D4 D2	Maurice Court McBean Avenue McBride Crescent	C3 D6 B6	Vincent Street Vivant Street	D3 B3 W
	219 B5	Dowson Loop Doyle Court	A2, A3, B3 A4	McCaffrey Road McCauley Court	A4, B4, B5 C2	Wainscot Avenue Wakefield Place	B1 D2
	221 D3	Druery Court Dundonald Trail (P) Durham Court	F6 B3 D2	McConnell Lane (P) McCron Crescent McGregor Farm Trail	B3 F7 A3	Walpole Crescent Walsh Court Walter Avenue	D6 B6 C3
	223 C4	Dutch Elliott Court	D5	McIntyre Court McKinnon Court (P)	C2 E5	Waratah Avenue Warby Trail	E2 E6
		Eagle Street West East Hill Court	B3, B4 E4	McTavish Drive Meadow Lane	E7, F7 F1, F2	Warwick Crescent Water Street	86 D4
		Eastman Crescent Eden Court Edward Street	E3 D3 C4	Meadowbank Road Mee Place Meegan Court	D3 F6, F7 A5	Watson Avenue Wayne Drive Webb Court	D3
		Elgin Street Ella Court	E2, F2 C5	Memorial Circle Memorial Gardens Way	F7 B2, B3	Weddel Court Wellington Street	E1, E2 D4
		Ellen Street Elm Street Elman Crescent	D4 D4 C2	Menczel Crescent Mickleburgh Drive Millard Avenue	B5 D6 C4 D4	Wendy Culbert Crescent (P) Wesley Street Widdifield Avenue	C7 D4 B7. C7
		Elvidge Trail Emerson Way (P)	A2 B3	Millard Avenue West	B4 B3, B4	Wilbur Pipher Circle Wildrush Place	E6, F6 E7
		Emily Grove Emma Broadbent Court Enza Court	B6 B1 B5	Monkswood Crescent Morley Cook Crescent (P) Mossbank Court	C3, C4 C7 D2	Wildwood Drive William Booth Avenue William Curtis Circle (D)	Ē3, E4 B2, B3 E5
		Erin Trail Ernest Cousins Circle	D2 E6, E7, F6, F7	Mountview Place Mulock Court	D2 D5, D6	William Roe Boulevard	A6 C5
		Eves Court Exceller Circle Exeter Court	B3 E6, E7 D2	Mulock Drive Muriel Street Mynden Wav	A5, B5, C5, D5, E5, F5 D4 B2, B3	william Street Williamson Family Hollow Willow Lane	J4 A3 C2, C3
		Fadine Road	B5	Narinia Crescent	B5	Willowick Drive Wilstead Drive	D6 C3, C4
		⊢airway Gardens Far North Circle Fernbank Road	вз, 84 Еб Еб	Nellie Little Crescent (P) Nellie Little Crescent Nelson Circle	A4 E6 C6	Winnbleton Court Winkworth Court (P) Wood Duck Lane	52 D5 B1, B2
		Ferndale Crescent Filiberto Place	E3 E7 D5 E5	Nesbitt Road New England Court	F1, F2 B7 C3	Woodbury Crescent Woodfern Way Woodbayen Court	B6 B1, B2 B5
		Flagstone Way Flagan Court	B2, C2 B5	Newpark Boulevard Newton Street	D6 E4	woodnaven Court Woodland Court Woodmount Place	C3 C4
		Ford Wilson Boulevard Forest Glen Road	B2, B3 C4 F3	Niagara Street Nicholson Road Norsan Court	D3, D4 F4, F5 D7 F7	Woodpark Place Woodspring Avenue	D3 B1, B2
		Forsyth Road Foxcroft Boulevard	C1 E6, E7	North Service Road (P) Northern Prospect Crescent	D6 E6	Yarfield Crescent Yonge Street	A3 C1, C2, C3, C4, B4, B5, B6, B7
		Foxtail Ridge Frank Hempen Court	B7, C7 F6	Norwick Road	E7	Yorkshire Drive	C2
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