



Asset Management Plan



Corporation of the Town of Kapuskasing

June 2022



Table of Contents

1.0 Introduction	3
2.0 Goals and Objectives	4
3.0 Methodology	4
3.1 Baseline Data	4
3.2 Replacement Value	5
4.0 Executive Summary	6
Table 4.1 - Asset Inventory Summary	6
Table 4.2 - Asset Inventory Summary	7
5.0 Water Assets	7
5.1 Description of Infrastructure	7
5.2 Levels of Service	8
5.3 Replacement Cost	8
5.4 Average Age and Condition Evaluation	8
5.5 Life-cycle activities	9
6.0 Wastewater Assets	9
C. A. Deserviction of Infrastructure	
6.1 Description of infrastructure	9
6.1 Description of Infrastructure 6.2 Level of Service	
	9
6.2 Level of Service	9 10
6.2 Level of Service 6.3 Replacement Cost	9 10 10
6.2 Level of Service6.3 Replacement Cost6.4 Average Age and Condition Evaluation	9
 6.2 Level of Service 6.3 Replacement Cost 6.4 Average Age and Condition Evaluation 6.5 Life-cycle activities 	9
 6.2 Level of Service 6.3 Replacement Cost 6.4 Average Age and Condition Evaluation	
 6.2 Level of Service 6.3 Replacement Cost 6.4 Average Age and Condition Evaluation	
 6.2 Level of Service	
 6.2 Level of Service	
 6.2 Level of Service	
 6.2 Level of Service 6.3 Replacement Cost 6.4 Average Age and Condition Evaluation	
 6.2 Level of Service	



8.3 Replacement Cost	13
8.4 Average Age and Condition Evaluation	13
Table 8.4 - Paved Road Service Life Matrix	14
8.5 Life-cycle activities	14
9.0 Bridges and Culverts	15
9.1 Description of Infrastructure and Level of Service	15
Table 9.1 Bridges and Culverts Summary	15
9.2 Replacement Cost	15
9.3 Average Age and Condition Evaluation	16
9.4 Life-cycle activities	16
10.0 Community Growth	16
Table 10 – Town of Kapuskasing Population	16
11.0 Conclusion	

List of Appendices

- Appendix A Map of Water Piping Network
- Appendix B Map of Wastewater Piping Network
- Appendix C Map of Road Network
- Appendix D Water Asset Inventory
- Appendix E Wastewater Asset Inventory
- Appendix F Stormwater Asset Inventory
- Appendix G Paved Road Asset Inventory
- Appendix H Bridges and Culverts Asset Inventory
- Appendix I Road Condition Photo Guide



1.0 Introduction

The Corporation of the Town of Kapuskasing (the Town) is responsible for providing a range of essential services to the community, including safe and reliable transportation networks, drinking water, sanitary collection services, stormwater management, and recreation facilities. To deliver these services, it owns and manages a diverse municipal infrastructure asset portfolio of roads, bridges, culverts, water mains, wastewater mains, stormwater mains, machinery, fleet, buildings and much more. As the social, economic, and environmental wellbeing of the community depends on the reliable performance of these municipal infrastructure assets, it is critical to implement a systemic, sustainable approach to their management.

Asset management is such an approach, and refers to the set of policies, practices and procedures that allow an organization to realize maximum value from its municipal infrastructure assets. An asset management approach allows organizations to make informed decisions regarding the planning, construction, operation, maintenance, renewal, replacement, and disposal of municipal infrastructure assets through a wide range of lifecycle activities.

A critical aspect of asset management is to collect, organise and analyse asset information and to document key metrics and strategies in an Asset Management Plan (AMP). The AMP is intended to support the development of the annual budget and longterm financial plan to ensure that the service delivery needs of the Town's citizens are sustained in the future. Well-managed infrastructure fosters prosperity, growth and quality of life for the Town's residents, businesses and visitors. This plan is a living document, it is a picture of the current and expected asset and infrastructure needs at a point in time. It requires regular updates as information and service delivery needs change. This plan should be reviewed annually during budget deliberations and the validity of any assumptions contained in the plan should be confirmed at that time. A major update of the plan is recommended every five years.

This plan contains a comprehensive inventory and analysis of the Town's core infrastructure consisting of:

- Water Assets
- Wastewater Assets
- Stormwater Assets
- Roads
- Bridges and Culverts



2.0 Goals and Objectives

This Asset Management Plan has been prepared in response to O.Reg. 588/17 which was released on December 27, 2017. O.Reg. 588/17 regulates asset management planning for municipal infrastructure and is a direct outcome of the Infrastructure for Jobs and Prosperity Act, 2015.

This legislation requires the Town to create and maintain an Asset Management Plan (AMP) for core municipal infrastructure assets by July 1, 2022 and all other municipal infrastructure assets by July 1, 2024. As such, this AMP documents the following for each core asset category:

- Asset Inventory what does the Town own, what is it worth, what is its condition and expected remaining service life;
- Level of Service what is the current level of service based on the last 2 years and the costs required to sustain those service levels;
- Lifecycle Management Strategy what needs to be done to maintain the current level of service.
- Effect of community growth on services

3.0 Methodology

The Town utilises a specially formatted spreadsheet to organize asset data, calculate replacement costs, and determine replacement schedule. The spreadsheet allows for full control and analysis of data and allows any internal staff to access the data. To capture the full life cycle of all assets, which can reach up to 80 years, the spreadsheet forecasts replacement costs for the next 100 years. By averaging costs over 100 years, the Town can determine the annual spending rate required to be sustainable. The spreadsheet also becomes a key tool to develop a 10-year capital project forecast. By having complete and organized data in a central location, the optimal project sequence can be developed.

3.1 Baseline Data

Asset replacement value and replacement dates can only be calculated from available data. Segment length data was primarily extracted from the Town's master services map. The installation year was extracted from the following sources:

- Existing databases
- Neighborhood construction year records
- Tangible capital asset (TCA) accounting records
- Project drawing and file records
- Road resurfacing records
- Employee recollection of reconstruction years.



While substantial effort went into obtaining the best possible data, it is understood that the data is not always accurate or complete. The Town is committed to continuing the process of data reconciliation and to correct the data errors as they are found. New asbuilt information will also be integrated in the database as projects are completed. Such a continuous improvement approach will improve accuracy and effectiveness of asset replacement planning.

3.2 Replacement Value

The replacement value for buried linear infrastructure is based on the following 2022 unit rates:

- 2,000 \$/m for water piping (including services and hydrants)
- 2,000 \$/m for sewer piping (including services and structures)
- 1,000 \$/m for storm sewer piping (including structures)

The units rates are based on industry standards, and actual Kapuskasing construction projects. Since complete street reconstruction will only be completed along with buried services replacement, the cost for road sub-base replacement and sidewalk construction is incorporated in the buried infrastructure rates.

The following asphalt resurfacing costs are based on industry standards, and actual Kapuskasing construction projects.

- 350 \$/m² for single layer asphalt
- 700 \$/m² for double layer asphalt

Applying the established 2022 unit rates listed above to an average 10-meter wide street, the total street replacement cost is approximately 5,700,000 \$/km. Street reconstruction project costs will vary due to multiple factors such as width, piping depth, piping size, number of sidewalks, but the established unit rates are intended to reflect the average cost.



4.0 Executive Summary

The following tables represents an overview of the town's core assets and its condition.

Asset Category	Asset Quantity	Useful Life	Average Asset Age (as of 2021)	Average Remaining Service Life (Years)	Total Single Event Replacement Cost	Average Annual Replacement Cost	
Water Wells	3 Total	60 to 80 years	56	14	\$1,200,000	\$20,202	
Water Treatment Plant	1 Only	Upgrade at 40 years	17	23	\$20,000,000	\$404,040	
Water Tower	1 Only	80 years	12	68	\$10,000,000	\$101,010	
Water Piping	65,576 m	80 years	54	26 \$131,151,020		\$1,731,069	
Wastewater Piping	57,046 m	80 years	58	22	\$114,092,460	\$1,614,894	
Wastewater Lift Stations	11 Total	50 years	20	30	\$5,500,000	\$116,162	
Wastewater Treatment Plant	1 Only	Upgrade at 40 years	8	32	\$15,000,000	\$303,030	
Stormwater Piping	22,963 m	80 years	48	32	\$22,963,450	\$303,356	
Roads (Paved)	63,109 m	20 to 40 years	N/A	19	\$32,439,750	\$1,086,809	
Culverts	8 Total	50 to 80 years	22	29	\$4,800,000	\$56,566	
Bridges	2 total	Overhaul at 20 years	0	20	\$5,000,000	\$202,020	
Total \$366,997,084 \$6,069,75							

Table 4.1	- Asset	Inventory	Summary
-----------	---------	-----------	---------

¹ As road age records are incomplete, a visual condition assessment is utilised to estimate remaining service life. See further explanation provided in section 8.4.



		Condition Assessment	
Asset Category	Good (More than 50% Remaining Service	Fair (20 to 50% Remaining Service	Poor (Less than 20% Remaining Service
	Life)	Life)	Life)
Water Piping	41%	30%	29%
Wastewater Piping	23%	47%	30%
Stormwater Piping	30%	41%	30%
Roads (Paved)	42%	32%	25%
Bridges and Culverts	90%	0%	10%

Table 4.2 - Asset Inventory Summary

5.0 Water Assets

5.1 Description of Infrastructure

The Town's water assets consist of the following infrastructure:

- Groundwater wells: There are three wells, all drilled in 1965 and equipped with a 4-stage turbine pump and concrete block pump house. One well is also equipped with a standby diesel generator.
- Water treatment plant: A new lime softening water treatment plant with a rated capacity of 6566 m³/day was constructed in 2004. The plant consists of two blanket clarifiers, a re-carbonation system, three concrete dual media gravity filters and two underground disinfection contact chambers with three high lift pumps. The plant also incudes a standby diesel generator. Water is pumped via the distribution system to the water tower. The sludge from the process is pumped to a two-cell lagoon.
- Water tower: A new concrete water tower was constructed in 2010 with a storage capacity of 4,560 m³.
- Piping: The underground water distribution piping network servicing the urban area totals approximately 66 km in length. Original piping section are cast iron material and reconstructed sections are PVC and HDPE. A map of the water piping network is provided in Appendix A.
- Fire Hydrants. There are approximately 300 fire hydrants located in the urban area.



5.2 Levels of Service

The municipal water, including fire flow, is connected to 3100 urban properties which is equivalent to 90% percent of the total properties. Approximately 95% of connections are for domestic water with the balance of 5% being deemed business/commercial accounts. A map of the water piping network is provided in Appendix A.

In 2020 and 2021, there were no boil water advisories in Kapuskasing. The Town experienced 10 water breaks in 2020, and another 4 in 2021. Based on the average resulting water service shutdown of 2 hours and an average of 10 affected houses, this is equivalent to a loss of 6 connection-days per year, or only 0.001% of the total municipality connection-days.

5.3 Replacement Cost

Water asset replacement costs are based on the following assumptions:

- Groundwater Water Wells: The replacement cost of \$400,000 per well is based on past construction costs adjusted for inflation and other local project costs.
- Water Plant Major Upgrades: It is assumed the water plant will never be fully replaced but will receive a major upgrade worth \$20,000,000 every 40 years. The upgrade cost is based on past construction costs adjusted for inflation.
- Water Tower: The replacement cost of \$10,000,000 is based on past construction cost adjusted for inflation.
- Underground Piping: The replacement value for underground water piping is based on the rate of 2,000 \$/m. This unit rate is intended to cover all excavation, property services, valves, and hydrants. Since complete street reconstruction will only be completed along with buried services replacement, the cost for road sub-base replacement and sidewalk construction was also incorporated in the buried infrastructure unit rates. The unit rate is based on industry standards, and actual Kapuskasing construction projects. Actual costs will vary due to multiple factors such as width, piping depth, piping size and number of sidewalks, but the established unit rates are intended to reflect the average overall construction cost.

Water asset replacement costs are summarised in Table 4.1 and individual components costs are provided in Appendix D.

5.4 Average Age and Condition Evaluation

The piping network condition evaluation is strictly age based as underground conditions are difficult to evaluate. An industry standard life expectancy of 80 years is applied to all piping networks and all material types.

Water asset age are summarised in Table 4.1 and condition is summarized in Table 4.2. Individual components age and condition are provided in Appendix D.



5.5 Life-cycle activities

To maintain the current level of service, the following measures are ongoing:

- Routine maintenance of water treatment plant at a cost of \$120,000 per year.
- Water well maintenance at a cost of \$25,000 per year.
- Piping system maintenance and repair at a cost of \$190,000 per year.
- Maintenance and flushing of hydrants (50% per year) and all dead ends at a cost of \$40,000 per year.
- Water tower maintenance at a cost of \$10,000 per year.
- Ongoing replacement of water assets at end of life at an average cost of \$2,300,000 per year.

6.0 Wastewater Assets

6.1 Description of Infrastructure

The Town's wastewater assets consist of the following infrastructure:

- Underground wastewater collection piping network and manholes (57 Km total length). Original piping is clay material and replacement pipes are PVC. A map of the wastewater piping network is provided in Appendix B.
- 11 sewer lift stations with submersible pumps and overflows.
- Wastewater treatment Plant (WWTP): The Kapuskasing WWTP is a Class II facility with a rated capacity of 9,086 m³/day and a peak capacity of 27,258 m³/day. The system consists of a dual train extended aeration plant. The facility is classified as a secondary treatment plant that includes screening, grit removal, aeration, clarification and ultraviolet (UV) disinfection. Other key features include a 3,140 m³ sewage biosolids tank, a centrifuge decanter for sludge thickening, and a 750-kW standby diesel generator.

6.2 Level of Service

The wastewater network is connected to 3100 urban properties which is equivalent to 90% percent of the total municipality properties. In 2020 and 2021, the treatment plant produced good quality effluent meeting all the compliance limits and objectives specified in the facility's Certificate of Approval. Initially the wastewater and stormwater systems were combined but all replacement projects include a dedicated stormwater system except for foundation weeping tiles. It is estimated that 30% of the town is now currently serviced by a dedicated stormwater system. To prevent backups into homes the following measures are in place:

• Level monitoring is performed at the WWTP and all lift stations and high level alarms are in place.



- The WWTP and all lift stations are equipped with overflows.
- Lift Stations are inspected 3 times per week and testing of generators is completed weekly by Town staff.

Since most of the wastewater system is still combined with stormwater, intense runoff results in additional pressure on the wastewater system. In 2020 and 2021, a total of 16 bypass events occurred due to intense snowmelt or rainwater with a total discharge volume of 77,000 m³. Each time, the bypass was chlorinated, sampled, and reported to the local MOE office and did not result in any effluent violations. Seldomly, flow restriction will also lead to wastewater backups in the properties. In 2020 and 2021, it is estimated that the service disruption due to backups was less than 10 connection-days per year, or 0.001% of the total municipality connection-days. To eliminate overflow and backup events, new and replacement construction projects are designed with a dedicated stormwater system. Modern pipe and concrete structure sealing technology utilised in new projects will also reduce infiltration as infrastructure is replaced.

6.3 Replacement Cost

Wastewater asset replacement costs are based on the following assumptions:

- Underground Piping: The replacement value for underground wastewater piping is based on the rate of 2,000 \$/m. This unit rate is intended to cover all excavation, property services and manholes. Since complete street reconstruction will only be completed along with buried services replacement, the cost for road sub-base replacement and sidewalk construction was also incorporated in the buried infrastructure unit rates. The unit rate is based on industry standards, and actual Kapuskasing construction projects. Actual costs will vary due to multiple factors such as width, piping depth, piping size and number of sidewalks, but the established unit rates are intended to reflect the average overall construction cost.
- Wastewater Lift Stations: The replacement cost of \$500,000 per station is based on past construction costs adjusted for inflation and other local project costs.
- Water Plant Major Upgrades: It is assumed the wastewater plant will never be fully replaced but will receive a major upgrade worth \$15,000,000 every 40 years. The upgrade cost is based on past construction cost adjusted for inflation.

Wastewater asset replacement costs are summarised in Table 4.1 and individual components costs are provided in Appendix E.

6.4 Average Age and Condition Evaluation

The piping network condition evaluation is strictly age based as underground conditions are difficult to evaluate. An industry standard life expectancy of 80 years is applied to all piping networks and all material types. Lift stations are expected to offer 50 years of service life before full reconstruction.



Wastewater asset age are summarised in Table 4.1 and condition is summarized in Table 4.2. Individual components age and condition are provided in Appendix E.

6.5 Life-cycle activities

To maintain the current level of service, the following measures are ongoing:

- Street sweeping is performed in the Spring to reduce sand and leave deposition in sewer and storm pipes at a cost of \$60,000 per year.
- WWTP routine maintenance at a cost of \$50,000 per year.
- Lift station pump maintenance at a cost of \$55,000 per year.
- Lift station pump replacement every 10 years at the cost of approximately \$35,000 per pump.
- Storm sewer maintenance including flushing/vacuuming (33% per year) at a cost of \$100,000 per year.
- Ongoing replacement of wastewater assets at end of life at an average cost of \$2,000,000 per year.

7.0 Stormwater Assets

7.1 Description of Infrastructure

Initially the wastewater and stormwater systems were combined but all replacement projects include a dedicated stormwater system except for foundation weeping tiles. It is estimated that overall, 30% of the town is now currently serviced by a dedicated stormwater system. The Town's dedicated stormwater assets consist of an underground stormwater collection piping network and catch basins (24 km total length). Stormwater piping is generally concrete or HDPE.

7.2 Level of Service

The combined stormwater network is connected to 3100 urban properties which is equivalent to 90% percent of the total municipality properties.

The system was evaluated in the *Computer Modelling of the Combined Sewer System and Pollution Prevention Control Plan* (Gable Engineering, November 2010) and found that approximately 90% of properties were resilient to a 100-year storm and about 95% to a 5-year storm. This study does not consider recent improvements to lift stations, the installation of dedicated stormwater collection systems and mitigation measures such as emergency bypassing of the lift stations or WWTP. Wastewater mitigation measures described in section 6.2 are also applicable to prevent stormwater backup as the system is still primary combined.



7.3 Replacement Cost

Wastewater asset replacement costs are based on the following assumptions:

 Underground Piping: The replacement value for underground wastewater piping is based on the rate of 1,000 \$/m. This unit rate is intended to cover all excavation, property services and manholes. Since complete street reconstruction will only be completed along with buried services replacement, the cost for road sub-base replacement and sidewalk construction was also incorporated in the buried infrastructure unit rates. The unit rate is based on industry standards, and actual Kapuskasing construction projects. Actual costs will vary due to multiple factors such as width, piping depth, piping size and number of sidewalks, but the established unit rates are intended to reflect the average overall construction cost.

Stormwater asset replacement costs are summarised in Table 4.1 and individual components costs are provided in Appendix F.

7.4 Average Age and Condition Evaluation

The piping network condition evaluation is strictly age based as underground conditions are difficult to evaluate. An industry standard life expectancy of 80 years is applied to all piping networks and all material types.

Stormwater asset age are summarised in Table 4.1 and condition is summarized in Table 4.2. Individual components age and condition are provided in Appendix F.

7.5 Life-cycle activities

As the system is still primarily combined, all activities listed in the wastewater section 6.5 are also applicable to the stormwater network. While there are no additional maintenance activities required for the dedicated stormwater sections, replacement of the existing system is estimated to cost an average of \$300,000 per year. The annual replacement cost will also increase as more dedicated stormwater piping is installed as part of future projects.

8.0 Roads

8.1 Description of Infrastructure

The Town's road network consists of 63 kilometers of paved roads, 34 kilometers of gravel roads, and 5 kilometers of chip-seal roads. A map of the road network is provided in Appendix C.

Road type	Total Length (m)	Total Lane Kilometers	Approximate Area Serviced (km²)
Arterial (Class 3)	10,913	22	342 (Town Limits)
Collector (Class 4)	20,336	41	6 (Urban Area)
Local (Class 5)	70,110	140	6 (Urban Area)

Table 8.1 – Road Quantities by Class

8.2 Levels of Service

Based on the 2021 visual condition evaluation, the average pavement condition index is 57 and all unpaved roads are in good condition due to adequate ongoing maintenance.

8.3 Replacement Cost

The total resurfacing cost of paved roads is estimated at \$34,000,000 based on a unit rate of 350 \$/m² for a single layer of asphalt, and 700 \$/m² for a double layer. The replacement cost of gravel and chip seal roads is excluded from the asset management plan as these roads are expected to last indefinitely with only routine maintenance which is already incorporated in the Town's operational budget. Road sub-base replacement costs are also excluded from this category as the unit rates for underground utilities replacement will only be completed in the event of full street reconstruction triggered by underground services replacement. By incorporating road base sub costs with underground utilities, adequate sub-base replacement frequencies are automatically applied.

Road paving costs are summarised in Table 4.1 and individual components costs are provided in Appendix G.

8.4 Average Age and Condition Evaluation

Any available road pavement age has been incorporated in the database, but records are incomplete as the work is often done in short section to repair problem road sections as needed. The surface condition of all paved roads was visually estimated with a scale of 1 to 5 (1 being as new condition and 5 being due for immediate replacement) in the Fall of 2021. Photos illustrating the various condition ratings are provided in Appendix I. The pavement surface is expected to last between 20 and 40 years depending on number of layers and road class. Since paving records are incomplete, the following remaining service life matrix was developed to establish remaining pavement life based on the visual condition assessment and road class.



Road Class	Number of Asphalt Layers	Asphalt Visual Condition Rating	Remaining Service Life (years)
		1	20
		2	15
Arterial (3)	Double	3	10
		4	5
		5	0
		1	30
	Single	2	25
Collector (4)		3	15
		4	5
		5	0
		1	40
		2	30
Local (5)	Single	3	20
		4	5
		5	0

Table 8.4 - Paved Road Service Life Matrix

Resurfacing is expected to occur 2 to 3 times more frequently than buried service replacement and will be scheduled to line up with a full reconstruction whenever possible to ensure that the entire service life of the pavement is realized.

Based on the assessed condition in 2021, the average pavement condition index is 2.8 (fair) and the average age of paved road surfaces is 17 years. All unpaved roads are in good condition due to regular maintenance. Individual road segment condition and estimated remaining service life values are provided in Appendix G.

8.5 Life-cycle activities

To maintain the current level of service, the following measures are ongoing:

- Crack sealing at a cost of \$20,000 per year. This activity is generally required starting 3 to 5 years following road resurfacing.
- Pothole repairs at a cost of \$100,000 per year. This activity is generally required starting 5 years following road resurfacing.
- Replacement of small pavement areas (patching) at a cost of \$400,000 per year. This activity is generally required starting 7 years following road resurfacing.
- Ongoing re-paving at end of life at an average cost of \$1,100,000 per year.



9.0 Bridges and Culverts

9.1 Description of Infrastructure and Level of Service

The town is responsible for 2 bridges and 8 main culverts.

Table 9.1 Bridges and Culverts Summary

Bridge or Culvert Name	Structure type	Loading Restriction	Traffic Type	Road Type (Class)	Condition Rating
HWY 11 East Bridge	Steel Girder / Concrete Deck	None	Motor Vehicles	Arterial (3)	Good
HWY 11 West Bridge	Steel Girder / Concrete Deck	None	Motor Vehicles	Arterial (3)	Good
Avenue Road Culvert	Steel Arch Pipe Multiplate Culvert	None	Motor Vehicles	Local (5)	Good
Brunetville Road Culvert	Twin Concrete Box Culverts	None	Motor Vehicles	Collector (4)	Good
Clear Lake Road North Culvert	Round CSP Culvert	None	Motor Vehicles	Collector (4)	Poor
Gough Road Culvert	Steel Arch Pipe MultiPlate Culvert	None	Motor Vehicles	Collector (4)	Good
Government Road East Culvert	Corrugated Steel Pipe Culvert	None	Motor Vehicles	Arterial (3)	Excellent
Mundy Street Culvert	Concrete Box & Arch MultiPlate	None	Motor Vehicles	Collector (4)	Fair
Owens Road North Culvert	Corrugated Steel Pipe Culvert	None	Motor Vehicles	Local (5)	Fair
Stevens Road Culvert	Steel Arch MultiPlate Culvert	None	Motor Vehicles	Local (5)	Good

9.2 Replacement Cost

It is assumed the two highway bridges will never be fully replaced, but will each receive a major overhaul worth \$2,500,000 every 20 years. The overhaul cost is based on the recent 2021 overhaul work. Culvert replacement costs are based on industry standards and actual Kapuskasing construction projects.

Bridge and culvert asset replacement costs are summarised in Table 4.1 and individual components costs are provided in Appendix H.



9.3 Average Age and Condition Evaluation

Detailed culvert and bridge inspections are completed every 2 years by a consultant as per the Ontario Structure Inspection Manual (OSIM). Inspection results, photo records, and recommended actions are provided in the OSIM Inspection Reports (EXP Services 2018 and 2020). Since the two bridges were overhauled in 2020/2021 to extend their service life, they were last inspected in 2018.

9.4 Life-cycle activities

To maintain the level of service, engineering inspections are completed every 2 years at a cost of \$12,000 per year and recommended actions are completed by the Town. Replacement of culverts at end of life and the ongoing refurbishing of bridges is estimated to cost an average of \$260,000 per year.

10.0 Community Growth

The population has been relatively stable for the last 10 years although it is suspected a mild increase in population has been observed during the pandemic. The population is expected to remain stable or increase slightly for the next decade and therefore core services requirements are not expected to change. There is no expectation that any mitigation measures or new asset projects will be required.

Year	Census Population	% Change
1996	10,036	
2001	9,238	-8%
2006	8,509	-8%
2011	8,196	-4%
2016	8,292	1%
2021	8,057	-3%

Table 10 – Town of Kapuskasing Population



11.0 Conclusion

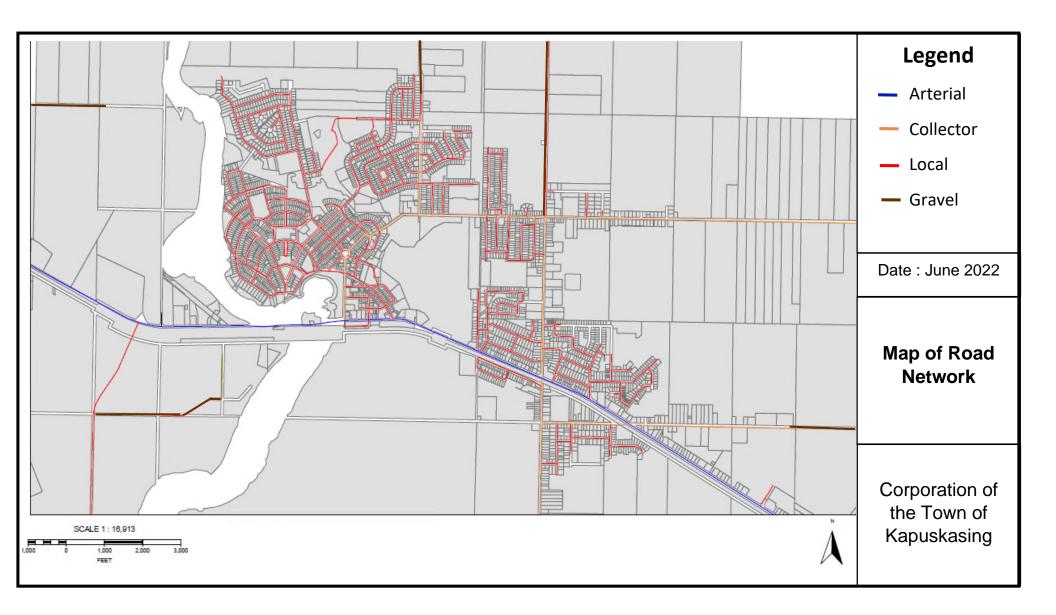
As a result of the proper design, operation, maintenance and replacement of core municipal infrastructure, the town of Kapuskasing is fortunate to generally maintain a good level of service across core services. However, when individual core asset age, condition, life expectancy and replacement costs are tabulated, the data indicates that the aging infrastructure will require investments of approximately \$6,000,000 annually to replace core assets as they reach end of life. Approximately 15% of the infrastructure has already exceeded its useful life expectancy which is equivalent to approximately \$50,000,000 of required investment. Without timely asset replacements, the levels of service would certainly eventually reduce, and inversely, maintenance cost would grow substantially. While other infrastructure types such as buildings, recreational facilities and major equipment have not yet been incorporated to the database, it is expected that the replacement and major maintenance backlog is also growing for these categories, albeit for much lower dollar value projects. Budget allocations should be evaluated to ensure that adequate level of service.

© 2022, The Corporation of the Town of Kapuskasing. All Rights Reserved.

The preparation of this project was carried out with assistance from the Government of Canada and the Federation of Canadian Municipalities. Notwithstanding this support, the views expressed are the personal views of the authors, and the Federation of Canadian Municipalities and the Government of Canada accept no responsibility for them.







Appendix D - Water Asset Inventory

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Water	Water Main	Abbot Street	Abbot	1969	137	52	28	\$274,860	\$274,860	\$2,776
Water	Water Main	Albany Street	Albany	2017	244	4	76	\$488,000	\$488,000	\$4,929
Water	Water Main	Albany Street	Albert	2017	425	4	76	\$849,760	\$849,760	\$8,583
Water	Water Main	Algonquin Street	Algonquin	1968	331	53	27	\$662,720	\$662,720	\$6,694
Water	Water Main	Anderson Street	Anderson	1930	124	91	-11	\$247,340	\$494,680	\$4,997
Water	Water Main	Ash Street	North End to Kap collision	1970	65	51	29	\$130,000	\$130,000	\$1,313
Water	Water Main	Ash Street	Ash	1955	776	66	14	\$1,552,520	\$3,105,040	\$31,364
Water	Water Main	Ash Street	Ash	1955	102	66	14	\$203,860	\$407,720	\$4,118
Water	Water Main	Aurora Avenue	Aurora	1930	45	91	-11	\$89,320	\$178,640	\$1,804
Water	Water Main	Aurora Avenue	Aurora	1930	38	91	-11	\$76,100	\$152,200	\$1,537
Water	Water Main	Aurora Avenue	Aurora	1930	195	91	-11	\$390,000	\$780,000	\$7,879
Water	Water Main	Aurora Avenue	Aurora	1930	127	91	-11	\$253,500	\$507,000	\$5,121
Water	Water Main	Avenue Road	Avenue	1966	86	55	25	\$172,160	\$172,160	\$1,739
Water	Water Main	Avenue Road	Avenue	1966	709	55	25	\$1,417,560	\$1,417,560	\$14,319
Water	Water Main	Avenue Road	Avenue	1966	158	55	25	\$316,920	\$316,920	\$3,201
Water	Water Main	Avenue Road	Avenue	1966	433	55	25	\$865,700	\$865,700	\$8,744
Water	Water Main	Balsam Ave	Balsam	1955	327	66	14	\$654,360	\$1,308,720	\$13,219
Water	Water Main	Behind Town Shop	Behind Town Shop	1955	919	66	14	\$1,837,260	\$3,674,520	\$37,116
Water	Water Main	Birch Street	Birch	1955	334	66	14	\$668,240	\$1,336,480	\$13,500
Water	Water Main	Borden Avenue	Borden	1969	160	52	28	\$320,220	\$320,220	\$3,235
Water	Water Main	Bouldier Street	Bouldier	1953	358	68	12	\$715,080	\$1,430,160	\$14,446
Water	Water Main	Bowman Avenue	Bowman	1930	529	91	-11	\$1,058,320	\$2,116,640	\$21,380
Water	Water Main	Bowman Avenue	Bowman	1930	253	91	-11	\$506,940	\$1,013,880	\$10,241
Water	Water Main	Brock Crescent	Brock	1965	26	56	24	\$51,500	\$51,500	\$520
Water	Water Main	Brock Crescent	Brock	1969	413	52	28	\$825,640	\$825,640	\$8,340
Water	Water Main	Brock Crescent	Brown	1973	252	48	32	\$504,540	\$504,540	\$5,096
Water	Water Main	Brunelle Road North	Brunelle N	1965	117	56	24	\$233,040	\$233,040	\$2,354
Water	Water Main	Brunelle Road North	Brunelle N	1965	1262	56	24	\$2,524,220	\$2,524,220	\$25,497
Water	Water Main	Brunelle Road North	Brunelle N	1965	243	56	24	\$485,100	\$485,100	\$4,900
Water	Water Main	Brunelle Road South	Brunelle S	1992	78	29	51	\$156,080	\$156,080	\$1,577
Water	Water Main	Brunelle Road South	Brunelle S	1992	679	29	51	\$1,357,520	\$1,357,520	\$13,712
Water	Water Main	Brunelle Road South	Brunelle S	1992	39	29	51	\$77,900	\$77,900	\$787
Water	Water Main	Brunetville Road	Brunetville	1988	994	33	47	\$1,987,240	\$1,987,240	\$20,073
Water	Water Main	Brunetville Road	Brunetville	1988	715	33	47	\$1,429,960	\$1,429,960	\$14,444
Water	Water Main	Brunetville Road	Brunetville	1991	1004	30	50	\$2,008,680	\$2,008,680	\$20,290
Water	Water Main	Byng Avenue	Byng	1930	163	91	-11	\$325,280	\$650,560	\$6,571
Water	Water Main	Byng Avenue	Byng	1930	942	91	-11	\$1,883,800	\$3,767,600	\$38,057
Water	Water Main	Cabot Street	Cabot	1964	100	57	23	\$200,780	\$200,780	\$2,028

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Water	Water Main	Cain Street	Cain	1994	120	27	53	\$239,680	\$239,680	\$2,421
Water	Water Main	Cain Street	Cain	1994	127	27	53	\$254,280	\$254,280	\$2,568
Water	Water Main	Caron Street	Caron	2001	66	20	60	\$132,000	\$132,000	\$1,333
Water	Water Main	Cartier Street	Cartier	1965	295	56	24	\$589,500	\$589,500	\$5,955
Water	Water Main	Cedar Street	Cedar	2010	965	11	69	\$1,929,660	\$1,929,660	\$19,492
Water	Water Main	Champlain Crescent	Champlain	1975	230	46	34	\$460,920	\$460,920	\$4,656
Water	Water Main	Cherry Avenue	Cherry	1955	246	66	14	\$491,680	\$983,360	\$9,933
Water	Water Main	Circle Street	Circle	1994	78	27	53	\$156,320	\$156,320	\$1,579
Water	Water Main	Circle Street	Circle	1994	200	27	53	\$400,860	\$400,860	\$4,049
Water	Water Main	Cite des Jeunes Boulevard	Cite des Jeunes	2006	23	15	65	\$45,960	\$45,960	\$464
Water	Water Main	Cite des Jeunes Boulevard	Cite des Jeunes	2006	400	15	65	\$799,600	\$799,600	\$8,077
Water	Water Main	Clark Street	Clark	1966	444	55	25	\$888,320	\$888,320	\$8,973
Water	Water Main	Clark Street	Clark	1966	3	55	25	\$6,360	\$6,360	\$64
Water	Water Main	Clear Lake Road North	Clear Lake Rd N	1965	110	56	24	\$219,480	\$219,480	\$2,217
Water	Water Main	Clear Lake Road South	Clear Lake Rd S	1965	27	56	24	\$54,060	\$54,060	\$546
Water	Water Main	Clear Lake Road South	Clear Lake Rd S	1965	88	56	24	\$176,640	\$176,640	\$1,784
Water	Water Main	Clear Lake Road South	Clear Lake Rd S	1965	222	56	24	\$444,320	\$444,320	\$4,488
Water	Water Main	Cloutier Place	Cloutier	1969	80	52	28	\$160,520	\$160,520	\$1,621
Water	Water Main	Corona Avenue	Corona	1983	137	38	42	\$273,520	\$273,520	\$2,763
Water	Water Main	Corona Avenue	Corona	1983	87	38	42	\$174,920	\$174,920	\$1,767
Water	Water Main	Cournoyer Street	Cournoyer	1952	523	69	11	\$1,045,620	\$2,091,240	\$21,124
Water	Water Main	Dallyn Avenue	Dallyn	1930	698	91	-11	\$1,395,300	\$2,790,600	\$28,188
Water	Water Main	De L'Etang Boulevard	De L'etang	1952	519	69	11	\$1,037,260	\$2,074,520	\$20,955
Water	Water Main	Devonshire Street	Devonshire	1930	920	91	-11	\$1,839,420	\$3,678,840	\$37,160
Water	Water Main	Devonshire Street	Devonshire	1930	86	91	-11	\$172,580	\$345,160	\$3,486
Water	Water Main	Dominion Avenue	Dominion	1930	979	91	-11	\$1,958,360	\$3,916,720	\$39,563
Water	Water Main	Don Avenue	Don	1988	70	33	47	\$139,780	\$139,780	\$1,412
Water	Water Main	Downs Avenue	Downs	1953	393	68	12	\$785,760	\$1,571,520	\$15,874
Water	Water Main	Drury Street	Drury	1930	87	91	-11	\$173,480	\$346,960	\$3,505
Water	Water Main	Drury Street	Drury	1930	253	91	-11	\$506,380	\$1,012,760	\$10,230
Water	Water Main	Egerton Avenue	Egerton	2015	563	6	74	\$1,125,960	\$1,125,960	\$11,373
Water	Water Main	Elm Street	Elm	1994	279	27	53	\$557,540	\$557,540	\$5,632
Water	Water Main	Erickson Avenue	Erickson	1965	320	56	24	\$640,500	\$640,500	\$6,470
Water	Water Main	Erie Street	Erie	1960	144	61	19	\$287,880	\$575,760	\$5,816
Water	Water Main	Etienne Street	Etienne	1973	22	48	32	\$44,340	\$44,340	\$448
Water	Water Main	Frontenac Crescent	Frontenac	1965	225	56	24	\$450,860	\$450,860	\$4,554
Water	Water Main	Frontenac Crescent	Frontenac	1965	471	56	24	\$941,940	\$941,940	\$9,515
Water	Water Main	Godin Street	Godin	1965	65	56	24	\$130,720	\$130,720	\$1,320
Water	Water Main	Golf Street	Golf	2015	444	6	74	\$888,080	\$888,080	\$8,971
Water	Water Main	Gough Road	Gough	1953	99	68	12	\$197,400	\$394,800	\$3,988
Water	Water Main	Government Road	Government Rd	1981	40	40	40	\$79,940	\$79,940	\$807
Water	Water Main	Government Road	Government Rd	1981	120	40	40	\$240,320	\$240,320	\$2,427

Note: Negative remaining service life signifies the asset is beyond its expected service life.

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Water	Water Main	Government Road	Government Rd	1981	1475	40	40	\$2,949,100	\$2,949,100	\$29,789
Water	Water Main	Government Road	Government Rd	1981	3503	40	40	\$7,006,380	\$7,006,380	\$70,772
Water	Water Main	Government Road	Hwy E Easement	1981	71	40	40	\$141,600	\$141,600	\$1,430
Water	Water Main	Gurney Road	Gurney	1994	17	27	53	\$34,080	\$34,080	\$344
Water	Water Main	Gurney Road	Gurney	1994	692	27	53	\$1,384,400	\$1,384,400	\$13,984
Water	Water Main	Hall Avenue	Hall	1930	80	91	-11	\$159,540	\$319,080	\$3,223
Water	Water Main	Hazel Street	Hazel	1969	26	52	28	\$51,760	\$51,760	\$523
Water	Water Main	Hazel Street	Hazel	1969	593	52	28	\$1,186,380	\$1,186,380	\$11,984
Water	Water Main	Hemlock Street	Hemlock	1955	170	66	14	\$339,700	\$679,400	\$6,863
Water	Water Main	Henderson Avenue	Henderson	1984	85	37	43	\$170,480	\$170,480	\$1,722
Water	Water Main	Hill Street	Hill	1953	339	68	12	\$677,080	\$1,354,160	\$13,678
Water	Water Main	Hudson Place	Hudson	1965	72	56	24	\$143,620	\$143,620	\$1,451
Water	Water Main	Huron Street	Huron	1997	233	24	56	\$465,000	\$465,000	\$4,697
Water	Water Main	Kennedy Avenue	Kennedy	1966	366	55	25	\$731,260	\$731,260	\$7,386
Water	Water Main	Kent Place	Kent	1966	66	55	25	\$132,120	\$132,120	\$1,335
Water	Water Main	Kimberly Drive	Kimberly	1966	72	55	25	\$143,220	\$143,220	\$1,447
Water	Water Main	Kimberly Drive	Kimberly	1966	991	55	25	\$1,982,780	\$1,982,780	\$20,028
Water	Water Main	King Street	King	1930	469	91	-11	\$938,340	\$1,876,680	\$18,956
Water	Water Main	King Street	King	1930	287	91	-11	\$573,160	\$1,146,320	\$11,579
Water	Water Main	King Street	King	1930	168	91	-11	\$336,260	\$672,520	\$6,793
Water	Water Main	King Street	King	1930	142	91	-11	\$284,900	\$569,800	\$5,756
Water	Water Main	King Street	King	1930	36	91	-11	\$72,580	\$145,160	\$1,466
Water	Water Main	King Street	King	1930	157	91	-11	\$314,740	\$629,480	\$6,358
Water	Water Main	Kolb Avenue	Kolb	1930	75	91	-11	\$149,440	\$298,880	\$3,019
Water	Water Main	Kolb Avenue	Kolb	1930	386	91	-11	\$772,620	\$1,545,240	\$15,608
Water	Water Main	Lang Avenue	Lang	1930	279	91	-11	\$557,700	\$1,115,400	\$11,267
Water	Water Main	Lang Avenue	Lang	1930	64	91	-11	\$127,300	\$254,600	\$2,572
Water	Water Main	Lasalle Avenue	Lasalle	1968	230	53	27	\$460,240	\$460,240	\$4,649
Water	Water Main	Laurier Crescent	Laurier	1973	331	48	32	\$662,640	\$662,640	\$6,693
Water	Water Main	Laval Street	Laval	1961	86	60	20	\$172,000	\$172,000	\$1,737
Water	Water Main	Lemarier Street	Lemarier	1961	620	60	20	\$1,240,140	\$1,240,140	\$12,527
Water	Water Main	Macdonald Street	Macdonald	1973	150	48	32	\$300,480	\$300,480	\$3,035
Water	Water Main	Mackenzie Avenue	Mackenzie	1969	152	52	28	\$304,880	\$304,880	\$3,080
Water	Water Main	Maple Drive	Maple	2010	310	11	69	\$619,580	\$619,580	\$6,258
Water	Water Main	Marquette Street	Marquette	1965	396	56	24	\$791,040	\$791,040	\$7,990
Water	Water Main	Mateev Avenue	Mateev	1966	481	55	25	\$961,840	\$961,840	\$9,716
Water	Water Main	McPherson Avenue	McPherson	1930	245	91	-11	\$490,840	\$981,680	\$9,916
Water	Water Main	McPherson Avenue	McPherson	1930	200	91	-11	\$400,640	\$801,280	\$8,094
Water	Water Main	McPherson Avenue	McPherson	1930	280	91	-11	\$559,240	\$1,118,480	\$11,298
Water	Water Main	Migneault Avenue	Migneault	1977	269	44	36	\$538,140	\$538,140	\$5,436
Water	Water Main	Mill Street	Mill	2003	267	18	62	\$533,280	\$533,280	\$5,387
Water	Water Main	Mill Street		2003	498	18	62	\$996,600	\$996,600	\$10,067
Water	Water Main	Montcalm	Montcalm	1952	157	69	11	\$314,080	\$628,160	\$6,345
Water	Water Main	Montgomery	Montgomery	2015	74	6	74	\$148,700	\$148,700	\$1,502
Water	Water Main	Montgomery	Montgomery	1930	448	91	-11	\$896,780	\$1,793,560	\$18,117
Water	Water Main	Mundy	Mundy	2015	591 429	6	74	\$1,182,660	\$1,182,660	\$11,946
Water	Water Main	Mundy	Mundy	1930	429 800	91	-11	\$858,200	\$1,716,400	\$17,337
Water	Water Main	Mundy Avenue	Mundy	1930	800	91	-11	\$1,600,000	\$3,200,000	\$32,323

Note: Negative remaining service life signifies the asset is beyond its expected service life.

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Water	Water Main	Murdock Street	Murdock	1930	360	91	-11	\$720,980	\$1,441,960	\$14,565
Water	Water Main	Murray	Murray	1975	393	46	34	\$785,020	\$785,020	\$7,929
Water	Water Main	Murray Street	Murray	2000	227	21	59	\$454,000	\$454,000	\$4,586
Water	Water Main	Neetian Road	Neetian	1957	150	64	16	\$300,000	\$600,000	\$6,061
Water	Water Main	Nelson Avenue	Nelson	1965	166	56	24	\$331,340	\$331,340	\$3,347
Water	Water Main	Niagara Street	Niagara	1960	229	61	19	\$457,740	\$915,480	\$9,247
Water	Water Main	Nipigon Avenue	Nipigon	2017	246	4	76	\$492,400	\$492,400	\$4,974
Water	Water Main	North Street	North	1952	87	69	11	\$174,800	\$349,600	\$3,531
Water	Water Main	Oak Street	Oak	1955	71	66	14	\$141,720	\$283,440	\$2,863
Water	Water Main	O'Brien Avenue	O'Brien	1984	591	37	43	\$1,182,660	\$1,182,660	\$11,946
Water	Water Main	O'Brien Avenue	O'Brien	1984	429	37	43	\$858,200	\$858,200	\$8,669
Water	Water Main	O'Brien Avenue	O'Brien	1984	173	37	43	\$345,120	\$345,120	\$3,486
Water	Water Main	Ontario Street	Ontario	1965	351	56	24	\$701,960	\$701,960	\$7,091
Water	Water Main	Ottawa Street	Ottawa	2017	683	4	76	\$1,365,080	\$1,365,080	\$13,789
Water	Water Main	Park Crescent	Park	1995	290	26	54	\$579,140	\$579,140	\$5,850
Water	Water Main	Pine Street	Pine	1955	475	66	14	\$950,960	\$1,901,920	\$19,211
Water	Water Main	Poplar Crescent	Poplar	1955	263	66	14	\$526,460	\$1,052,920	\$10,636
Water	Water Main	Progress Crescent	Progress	1986	313	35	45	\$626,660	\$626,660	\$6,330
Water	Water Main	Queen Street	Queen	1930	259	91	-11	\$517,320	\$1,034,640	\$10,451
Water	Water Main	Radisson Crescent	Radisson	1975	627	46	34	\$1,253,880	\$1,253,880	\$12,665
Water	Water Main	Richmond Avenue	Richmond	1968	475	53	27	\$950,660	\$950,660	\$9,603
Water	Water Main	Riverside Drive	Riverside	1930	654	91	-11	\$1,308,400	\$2,616,800	\$26,432
Water	Water Main	Riverside Drive	Riverside	1994	993	27	53	\$1,986,280	\$1,986,280	\$20,063
Water	Water Main	Riverside Drive	Riverside	1994	248	27	53	\$495,580	\$495,580	\$5,006
Water	Water Main	Seaborne Crescent	Seaborne	1966	476	55	25	\$952,900	\$952,900	\$9,625
Water	Water Main	Sheppard Avenue	Sheppard	1994	95	27	53	\$189,480	\$189,480	\$1,914
Water	Water Main	Sofija Place	Sofija	2016		5	75	\$0	\$0	\$0
Water	Water Main	Spruce Street	Spruce	1955	658	66	14	\$1,316,260	\$2,632,520	\$26,591
Water	Water Main	St.Clair Avenue	St. Clair	1960	233	61	19	\$465,840	\$931,680	\$9,411
Water	Water Main	St.Lawrence Avenue	St. Lawrence	2011	466	10	70	\$931,860	\$931,860	\$9,413
Water	Water Main	St.Lawrence Avenue	St. Lawrence	2011	104	10	70	\$208,640	\$208,640	\$2,107
Water	Water Main	St.Patrick Street	St. Patrick	1968	286	53	27	\$571,120	\$571,120	\$5,769
Water	Water Main	Stewart Avenue	Stewart	1930	431	91	-11	\$861.720	\$1,723,440	\$17,408
Water	Water Main	Summers Avenue	Summers	1930	123	91	-11	\$245,240	\$490,480	\$4,954
Water	Water Main	Superior Street	Superior	1960	246	61	19	\$492,200	\$984,400	\$9,943
Water	Water Main	Sussex Street	Sussex	2015	143	6	74	\$285,400	\$285,400	\$2,883
Water	Water Main	Thibeault Street	Thibeault	1977	287	44	36	\$573,140	\$573,140	\$5,789
Water	Water Main	Thompson Road	Thompson	1969	351	52	28	\$702,980	\$702,980	\$7,101
Water	Water Main	Tremblay Street	Tremblay	1969	131	61	19	\$261,160	\$702,980	\$5,276
Water	Water Main	Trudeau Avenue	Trudeau	1960	258	52	28	\$515,980	\$515,980	\$5,212
Water	Water Main	Vanier Street	Vanier	1969	167	53	20	\$334.680	\$334.680	\$3,381
Water	Water Main	Victoria Avenue	Victoria	1900	259	91	-11	\$517,900	\$1,035,800	\$10,463
Water	Water Main	Water Main between Wells	WELL#1 TO WELL#2	1965	917	56	24	\$1,833,200	\$1,833,200	\$18,517
Water	Water Main	Water Main between Wells	WELL#2 TO WELL#3	1965	812	56	24	\$1,624,800	\$1,624,800	\$16,412
Water	Water Main	Water Main between Wells	WELL#3 TO WTP	1965	442	56	24	\$883,200	\$883,200	\$8,921
Water	Water Tower	Water Tower	67 Brunelle St North	2009		12	68	\$10,000,000	\$20,000,000	\$202,020

Note: Negative remaining service life signifies the asset is beyond its expected service life.

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Water	Water Treatment Plant	Water Treatment Plant	169 Clear Lake Road South	2004		17	23	\$20,000,000	\$60,000,000	\$606,061
Water	Water distribution	Watermain Accross Town	Addition accross town	2008	1533	13	67	\$3,066,667	\$3,066,667	\$30,976
Water	Water distribution	Watermain Accross Town	Addition accross town	2009	1533	12	68	\$3,066,667	\$3,066,667	\$30,976
Water	Water distribution	Watermain Accross Town	Addition accross town	2010	1533	11	69	\$3,066,667	\$3,066,667	\$30,976
Water	Wells	Well No1	459 Stevens Road	1965		56	4	\$400,000	\$800,000	\$8,081
Water	Wells	Well No2	254 Clear Lake Road South	1965		56	14	\$400,000	\$800,000	\$8,081
Water	Wells	Well No3	170 Clear Lake Road South	1965		56	24	\$400,000	\$400,000	\$4,040
Water	Water Main	West Riverside	W Riverside (incl river Crossing)	2005	1244	16	64	\$2,488,740	\$2,488,740	\$25,139
Water	Water Main	Willow Street	Willow	1952	95	69	11	\$189,900	\$379,800	\$3,836
Water	Water Main		Winnipeg	2017	346	4	76	\$692,560	\$692,560	\$6,996
Water	Water Main	Wolfe Street	Wolfe	1965	554	56	24	\$1,108,180	\$1,108,180	\$11,194

Appendix E: Wastewater Asset Inventory

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Sewer	Lift Station	Byng Lift Station	27A Byng Avenue	1998		23	27	\$500,000	\$1,000,000	\$10,101
Sewer	Sewer Main	Abbot Street	Abbot	1969	166	52	28	\$332,320	\$332,320	\$3,357
Sewer	Sewer Main	Albany Street	Albany	2017	247	4	76	\$494,000	\$494,000	\$4,990
Sewer	Sewer Main	Albany Street	Albert	2017	286	4	76	\$571,980	\$571,980	\$5,778
Sewer	Sewer Main	Algonquin Street	Algonquin	1968	283	53	27	\$566,080	\$566,080	\$5,718
Sewer	Sewer Main	Ash Street	Ash	1955	157	66	14	\$313,440	\$626,880	\$6,332
Sewer	Sewer Main	Ash Street	Ash	1955	91	66	14	\$181,260	\$362,520	\$3,662
Sewer	Sewer Main	Ash Street	Ash	1955	78	66	14	\$156,200	\$312,400	\$3,156
Sewer	Sewer Main	Ash Street	Ash	1955	30	66	14	\$60,920	\$121,840	\$1,231
Sewer	Sewer Main	Ash Street	Ash	1955	65	66	14	\$130,000	\$260,000	\$2,626
Sewer	Sewer Main	Aurora Avenue	Aurora	1930	16	91	-11	\$32,480	\$64,960	\$656
Sewer	Sewer Main	Aurora Avenue	Aurora	1930	195	91	-11	\$389,860	\$779,720	\$7,876
Sewer	Sewer Main	Avenue Road	Avenue	1966	94	55	25	\$188,480	\$188,480	\$1,904
Sewer	Sewer Main	Avenue Road	Avenue	1966	91	55	25	\$182,800	\$182,800	\$1,846
Sewer	Sewer Main	Avenue Road	Avenue	1966	179	55	25	\$357,840	\$357,840	\$3,615
Sewer	Sewer Main	Avenue Road	Avenue	1966	438	55	25	\$875,260	\$875,260	\$8,841
Sewer	Sewer Main	Balsam Ave	Balsam	1955	200	66	14	\$400,800	\$801,600	\$8,097
Sewer	Sewer Main	Behind Town Shop	Behind town shop to Progress	1986	544	35	45	\$1,088,000	\$1,088,000	\$10,990
Sewer	Sewer Main	Birch Street	Birch	1955	232	66	14	\$463,080	\$926,160	\$9,355
Sewer	Sewer Main	Birch Street	Birch	1955	90	66	14	\$179,480	\$358,960	\$3,626
Sewer	Sewer Main	Borden Avenue	Borden	1969	84	52	28	\$168,720	\$168,720	\$1,704
Sewer	Sewer Main	Bouldier Street	Bouldier	1953	358	68	12	\$715,000	\$1,430,000	\$14,444
Sewer	Sewer Main	Bowman Avenue	Bowman	1930	358	91	-11	\$716.280	\$1,432,560	\$14,470
Sewer	Sewer Main	Bowman Avenue	Bowman	1930	203	91	-11	\$405,000	\$810,000	\$8,182
Sewer	Sewer Main	Bowman/King	Between Bowman and King	1930	106	91	-11	\$211,960	\$423,920	\$4,282
Sewer	Sewer Main	Brock Crescent	Brock	1965	436	56	24	\$872,540	\$872,540	\$8,814
Sewer	Sewer Main	Brock Crescent	Brown	1973	234	48	32	\$467,080	\$467,080	\$4,718
Sewer	Sewer Main	Brunelle Road North	Brunelle N	1965	1401	56	24	\$2,802,520	\$2,802,520	\$28,308
Sewer	Sewer Main	Brunelle Road South	Brunelle S	1953	708	68	12	\$1,416,080	\$2,832,160	\$28,608
Sewer	Lift Station	Brunetville Lift Station	249 Brunetville Road	1988		33	17	\$500,000	\$1,000,000	\$10,101
Sewer	Sewer Main	Brunetville Road	Brunetville	1965	1435	56	24	\$2,869,200	\$2,869,200	\$28,982
Sewer	Sewer Main	Brunetville Road	Brunetville	1965	152	56	24	\$304,080	\$304,080	\$3,072
Sewer	Sewer Forcemain	Brunetville Road	Brunetville	1965	201	56	24	\$401,380	\$401,380	\$4,054
Sewer	Sewer Forcemain	Brunetville Road	Brunetville	1965	437	56	24	\$873,140	\$873,140	\$8,820
Sewer	Sewer Main	Byng Avenue	Byng	1930	16	91	-11	\$32,420	\$64,840	\$655
Sewer	Sewer Main	Byng Avenue	Byng	1930	68	91	-11	\$136,460	\$272,920	\$2,757
Sewer	Sewer Main	Byng Avenue	Byng	1930	84	91	-11	\$167,660	\$335,320	\$3,387
Sewer	Sewer Main	Byng Avenue	Byng	1930	373	91	-11	\$745,520	\$1,491,040	\$15,061

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Sewer	Sewer Main	Byng Avenue	Byng	1930	162	91	-11	\$324,840	\$649,680	\$6,562
Sewer	Sewer Main	Byng Avenue	Byng	1930	347	91	-11	\$694,280	\$1,388,560	\$14,026
Sewer	Sewer Forcemain	Byng Avenue	Byng	1930	127	91	-11	\$253,280	\$506,560	\$5,117
Sewer	Sewer Main	Cabot Street	Cabot	1965	99	56	24	\$197,840	\$197,840	\$1,998
Sewer	Sewer Main	Cain Street	Cain	1994	99	27	53	\$197,080	\$197,080	\$1,991
Sewer	Sewer Main	Cain Street	Cain	1994	187	27	53	\$374,280	\$374,280	\$3,781
Sewer	Sewer Main	Cain Street (up to McPherson)	Between Cain and McPherson	1994	71	27	53	\$141,720	\$141,720	\$1,432
Sewer	Sewer Main	Cartier Street	Cartier	1965	278	56	24	\$555,560	\$555,560	\$5,612
Sewer	Sewer Main	Cedar Street	Cedar	2010	236	11	69	\$472,020	\$472,020	\$4,768
Sewer	Sewer Forcemain	Cedar Street	Cedar	2010	27	11	69	\$53,340	\$53,340	\$539
Sewer	Sewer Main	Cedar Street	Cedar	2010	479	11	69	\$958,860	\$958,860	\$9,685
Sewer	Sewer Main	Cedar Street	Cedar	2010	24	11	69	\$48,020	\$48,020	\$485
Sewer	Sewer Main	Cedar Street	Cedar	2010	148	11	69	\$295,640	\$295,640	\$2,986
Sewer	Sewer Main	Cedar Street	Cedar	2010	30	11	69	\$60,140	\$60,140	\$607
Sewer	Sewer Main	Champlain Crescent	Champlain	1975	231	46	34	\$461,080	\$461,080	\$4,657
Sewer	Sewer Main	Cherry Avenue	Cherry	1955	389	66	14	\$778,060	\$1,556,120	\$15,718
Sewer	Sewer Main	Circle Street	Circle	1994	83	27	53	\$166,000	\$166,000	\$1,677
Sewer	Sewer Main	Cite des Jeunes Boulevard	Cite des Jeunes	2006	12	15	65	\$23,000	\$23,000	\$232
Sewer	Sewer Main	Clark Street	Clark	1966	147	55	25	\$294,620	\$294,620	\$2,976
Sewer	Sewer Main	Clark Street	Clark	1966	191	55	25	\$381,060	\$381,060	\$3,849
Sewer	Lift Station	Clear Lake North Lift Station	9 Clear Lake Road North	1994		27	23	\$500,000	\$1,000,000	\$10,101
Sewer	Sewer Main	Clear Lake Road North	Clear Lake Road North	1965	123	56	24	\$245,800	\$245,800	\$2,483
Sewer	Sewer Main	Clear Lake Road South	Clear Lake Road South	1965	607	56	24	\$1,214,920	\$1,214,920	\$12,272
Sewer	Sewer Forcemain	Clear Lake Road South	Clear Lake Rd S	1965	717	56	24	\$1,433,560	\$1,433,560	\$14,480
Sewer	Sewer Main	Cloutier Place	Cloutier	1969	74	52	28	\$147,940	\$147,940	\$1,494
Sewer	Sewer Main	Corona Avenue	Corona	1930	232	91	-11	\$463,060	\$926,120	\$9,355
Sewer	Sewer Main	Cournoyer Street	Cournoyer	1952	483	69	11	\$965,600	\$1,931,200	\$19,507
Sewer	Sewer Main	Dallyn Avenue	Dallyn	1930	451	91	-11	\$901,000	\$1,802,000	\$18,202
Sewer	Sewer Main	Dallyn Avenue	Dallyn	1930	27	91	-11	\$54,300	\$108,600	\$1,097
Sewer	Sewer Main	Dallyn Avenue (up to Cain)	Between Dallyn and Cain	1930	154	91	-11	\$308,860	\$617,720	\$6,240
Sewer	Sewer Main	De L'Etang Boulevard	De L'etang	1952	632	69	11	\$1,264,680	\$2,529,360	\$25,549
Sewer	Sewer Main	Devonshire Street	Devonshire	1930	362	91	-11	\$724,580	\$1,449,160	\$14,638
Sewer	Sewer Main	Devonshire Street	Devonshire	1930	8	91	-11	\$16,580	\$33,160	\$335
Sewer	Sewer Main	Devonshire Street	Devonshire	1930	266	91	-11	\$532,480	\$1,064,960	\$10,757
Sewer Sewer	Sewer Main Sewer Main	Devonshire Street Dominion Avenue	Devonshire Dominion	1930 1930	342 159	91 91	-11 -11	\$683,240 \$317,160	\$1,366,480 \$634,320	\$13,803 \$6.407
Sewer	Sewer Main	Dominion Avenue	Dominion	1930	596	91 91	-11	\$317,160	\$2,382,440	\$6,407
Sewer	Sewer Main	Dominion Avenue	Dominion	1930	596 62	91 56	-11 24	\$1,191,220 \$123,000	\$2,382,440	\$24,065
Sewer	Sewer Main	Downs Avenue	Downs	1965	393	56 68	12	\$785,980	\$1,571,960	\$15,878
Sewer	Sewer Main	Drury Street	Downs	1955	393	91	-11	\$66,360	\$132,720	\$1,341

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Sewer	Sewer Main	Drury Street	Drury	1930	218	91	-11	\$435,100	\$870,200	\$8,790
Sewer	Sewer Main	Egerton Avenue	Egerton	2015	83	6	74	\$166,320	\$166,320	\$1,680
Sewer	Sewer Main	Egerton Avenue	Egerton	2015	126	6	74	\$252,040	\$252,040	\$2,546
Sewer	Sewer Main	Egerton Avenue	Egerton	2015	251	6	74	\$501,060	\$501,060	\$5,061
Sewer	Sewer Main	Elm Street	Elm	1994	267	27	53	\$534,840	\$534,840	\$5,402
Sewer	Sewer Main	Erickson Avenue	Erickson	1965	331	56	24	\$662,640	\$662,640	\$6,693
Sewer	Sewer Main	Erie Street	Erie	1960	135	61	19	\$270,920	\$541,840	\$5,473
Sewer	Sewer Main	Frontenac Crescent	Frontenac	1965	691	56	24	\$1,381,320	\$1,381,320	\$13,953
Sewer	Sewer Main	Golf Street	Golf	2015	299	6	74	\$598,780	\$598,780	\$6,048
Sewer	Lift Station	Golf Street	Golf Street	2015		6	44	\$500,000	\$1,000,000	\$10,101
Sewer	Sewer Main	Government Road	Government Rd E	1957	495	64	16	\$990,300	\$1,980,600	\$20,006
Sewer	Sewer Main	Government Road	Government Rd E	1957	657	64	16	\$1,314,160	\$2,628,320	\$26,549
Sewer	Sewer Main	Government Road	Government Rd E	1957	33	64	16	\$66,020	\$132,040	\$1,334
Sewer	Sewer Main	Government Road	Government Rd E	1957	155	64	16	\$309,800	\$619,600	\$6,259
Sewer	Sewer Forcemain	Government Road	Government Rd E	1957	380	64	16	\$760,560	\$1,521,120	\$15,365
Sewer	Sewer Main	Government Road	Hwy 11 East	1957	850	64	16	\$1,700,640	\$3,401,280	\$34,356
Sewer	Sewer Main	Government Road	Hwy 11 East	1957	862	64	16	\$1,723,140	\$3,446,280	\$34,811
Sewer	Sewer Main	Government Road	Hwy 11 East	1957	692	64	16	\$1,384,380	\$2,768,760	\$27,967
Sewer	Sewer Forcemain	Government Road	Hwy 11 East	1957	569	64	16	\$1,138,060	\$2,276,120	\$22,991
Sewer	Sewer Forcemain	Government Road	Hwy 11 East	1957	494	64	16	\$988,160	\$1,976,320	\$19,963
Sewer	Sewer Forcemain	Gurney Road	Gurney	1994	191	27	53	\$381,320	\$381,320	\$3,852
Sewer	Sewer Main	Gurney Road	Gurney	1994	709	27	53	\$1,418,780	\$1,418,780	\$14,331
Sewer	Sewer Main	Hall Avenue	Hall	1930	84	91	-11	\$167,200	\$334,400	\$3,378
Sewer	Sewer Main	Hall Avenue	Hall	1930	158	91	-11	\$315,560	\$631,120	\$6,375
Sewer	Sewer Main	Hazel Street	Hazel	1969	591	52	28	\$1,182,420	\$1,182,420	\$11,944
Sewer	Sewer Main	Henderson Avenue	Henderson	1984	80	37	43	\$159,420	\$159,420	\$1,610
Sewer	Sewer Main	Henderson Avenue	Henderson	1984	88	37	43	\$175,140	\$175,140	\$1,769
Sewer	Sewer Main	Hill Street	Hill	1953	240	68	12	\$479,780	\$959,560	\$9,693
Sewer	Sewer Main	Hudson Place	Hudson	1965	108	56	24	\$215,060	\$215,060	\$2,172
Sewer	Sewer Main	Huron Street	Huron	1997	188	24	56	\$376,600	\$376,600	\$3,804
Sewer	Lift Station	HWY 11 Lift Station	90 Government Road	2013		8	42	\$500,000	\$1,000,000	\$10,101
Sewer	Sewer Main	Kennedy Avenue	Kennedy	1966	125	55	25	\$249,940	\$249,940	\$2,525
Sewer	Sewer Main	Kennedy Avenue	Kennedy	1966	155	55	25	\$310,900	\$310,900	\$3,140
Sewer	Sewer Main	Kent Place	Kent	1966	42	55	25	\$83,800	\$83,800	\$846
Sewer	Sewer Main	Kimberly Drive	Kimberly	1966	403	55	25	\$806,000	\$806,000	\$8,141
Sewer	Sewer Main	Kimberly Drive	Kimberly	1966	683	55	25	\$1,366,140	\$1,366,140	\$13,799
Sewer	Sewer Forcemain	Kimberly Drive Lift Station	Kimberly Lift Station	1966	163	55	25	\$325,020	\$325,020	\$3,283
Sewer	Lift Station	Kimberly Lift Station	between 32 and 34 Kimberly Drive	2009		12	38	\$500,000	\$1,000,000	\$10,101

Category	Segment Sewer Main	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021) 91	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120) \$762,120	Average Annual Replacement Cost \$7.698
		King Street						. ,	. ,	. ,
Sewer	Sewer Main	King Street	King	1930	188	91	-11	\$375,980	\$751,960	\$7,596
Sewer	Sewer Main	King Street	King	1930	28	91	-11	\$56,920	\$113,840	\$1,150
Sewer	Sewer Main	King Street (up to Drury)	Between King and Drury	1930	77 44	91	-11	\$153,520	\$307,040	\$3,101
Sewer	Sewer Main	King Street (up to Drury)	Between King and Drury	1930		91	-11	\$87,780	\$175,560	\$1,773
Sewer	Sewer Main	Kolb Avenue	Kolb	1930	73	91	-11	\$146,400	\$292,800	\$2,958
Sewer	Sewer Main	Kolb Avenue	Kolb	1930	81	91	-11	\$162,800	\$325,600	\$3,289
Sewer	Sewer Main	Kolb Avenue	Kolb	1930	272	91	-11	\$544,200	\$1,088,400	\$10,994
Sewer	Sewer Main	Lang Avenue	Lang	1930	339	91	-11	\$678,180	\$1,356,360	\$13,701
Sewer	Sewer Main	Lasalle Avenue	Lasalle	1968	290	53 48	27 32	\$580,780	\$580,780	\$5,866
Sewer Sewer	Sewer Main Sewer Forcemain	Laurier Crescent Lemarier Street	Laurier Lemarier	1973 2017	283 71	48	76	\$566,300 \$142,760	\$566,300 \$142,760	\$5,720 \$1,442
Sewer	Sewer Main	Lemarier Street	Lemarier	2017	470	4	76	\$940,520	\$940.520	\$9,500
Sewer	Lift Station	Lemarier Street Lift Station		1965		56	-6	\$500,000	\$1,500,000	\$15,152
Sewer	Lift Station	Lift Station Groleau	North of 320 Government Road	1994		27	23	\$500,000	\$1,000,000	\$10,101
Sewer	Sewer Main	Macdonald Street	Macdonald	1973	81	48	32	\$161,060	\$161,060	\$1,627
Sewer	Sewer Main	Mackenzie Avenue	Mackenzie	1969	172	52	28	\$344,160	\$344,160	\$3,476
Sewer	Sewer Main	Maple Drive	Maple	2010	291	11	69	\$581,780	\$581,780	\$5,877
Sewer	Sewer Main	Marquette Street	Marquette	1965	348	56	24	\$695,940	\$695,940	\$7,030
Sewer	Sewer Main	Mateev Avenue	Mateev	1966	389	55	25	\$777,920	\$777,920	\$7,858
Sewer	Sewer Main	Mateev Avenue	Mateev	1966	87	55	25	\$174,620	\$174,620	\$1,764
Sewer	Sewer Main	McPherson Avenue	McPherson	1930	120	91	-11	\$240,020	\$480,040	\$4,849
Sewer	Sewer Main	McPherson Avenue	McPherson	1930	299	91	-11	\$598,740	\$1,197,480	\$12,096
Sewer	Sewer Main	McPherson Avenue	McPherson	1930	105	91	-11	\$210,060	\$420,120	\$4,244
Sewer	Sewer Main	Migneault Avenue	Migneault	1977	261	44	36	\$521,300	\$521,300	\$5,266
Sewer	Sewer Main	Mill Street	Mill	2003	515	18	62	\$1,030,200	\$1,030,200	\$10,406
Sewer	Sewer Main	Mill Street	Mill	2003	297	18	62	\$593,680	\$593,680	\$5,997
Sewer	Lift Station	Mill Street Lift Station	SW corner of Brunelle Road South and Mill Street	2018		3	47	\$500,000	\$1,000,000	\$10,101
Sewer	Sewer Forcemain	Mill To Cedar	Mill To Cedar	2010	3450	11	69	\$6,900,560	\$6,900,560	\$69,703
Sewer	Sewer Main	Millview Street	Millview	1930	76	91	-11	\$151,460	\$302,920	\$3,060
Sewer	Sewer Forcemain	Millview Street	Millview	1930	59	91	-11	\$117,400	\$234,800	\$2,372
Sewer	Sewer Main	Montcalm	Montcalm	1952	136	69	11	\$271,940	\$543,880	\$5,494
Sewer	Sewer Main	Montgomery	Montgomery	2015	111	6	74	\$222,540	\$222,540	\$2,248
Sewer	Sewer Main	Montgomery	Montgomery	1930	269	91	-11	\$537,240	\$1,074,480	\$10,853
Sewer	Sewer Main	Montgomery	Montgomery	1930	17	91	-11	\$33,520	\$67,040	\$677
Sewer	Sewer Main	Mundy	Mundy	2014	200	7	73	\$400,980	\$400,980	\$4,050
Sewer	Sewer Main	Mundy	Mundy	1930	203	91	-11	\$405,980	\$811,960	\$8,202
Sewer	Sewer Main	Mundy	Mundy	1930	334	91	-11	\$668,820	\$1,337,640	\$13,512
Sewer	Sewer Main	Mundy (up to Bing)	Between Mundy and Bing	1982	95	39	41	\$190,000	\$190,000	\$1,919

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Sewer	Sewer Main	Mundy (up to King)	Between Mundy and King	1930	147	91	-11	\$294,780	\$589,560	\$5,955
Sewer	Sewer Main	Murdock Street	Murdock	1930	329	91	-11	\$657,980	\$1,315,960	\$13,293
Sewer	Sewer Main	Murdock Street	Murdock	1930	37	91	-11	\$73,200	\$146,400	\$1,479
Sewer	Sewer Main	Murray	Murray	1975	390	46	34	\$780,760	\$780,760	\$7,886
Sewer	Sewer Main	Murray Street	Murray	1975	250	46	34	\$500,000	\$500,000	\$5,051
Sewer	Sewer Main	Nelson Avenue	Nelson	1965	143	56	24	\$286,000	\$286,000	\$2,889
Sewer	Sewer Main	Niagara Street	Niagara	1960	221	61	19	\$441,800	\$883,600	\$8,925
Sewer	Sewer Main	Nipigon Avenue	Nipigon	2017	44	4	76	\$88,760	\$88,760	\$897
Sewer	Sewer Main	Nipigon Avenue	Nipigon	2017	174	4	76	\$347,600	\$347,600	\$3,511
Sewer	Sewer Main	North Street	North	1952	56	69	11	\$112,600	\$225,200	\$2,275
Sewer	Sewer Main	Oak Street	Oak	1955	81	66	14	\$162,920	\$325,840	\$3,291
Sewer	Sewer Main	Oak Street	Oak	1955	63	66	14	\$125,000	\$250,000	\$2,525
Sewer	Sewer Main	O'Brien Avenue	O'Brien	1984	213	37	43	\$425,560	\$425,560	\$4,299
Sewer	Sewer Main	O'Brien Avenue (up to HW 11)	Between O'Brien and Hwy 11	1984	227	37	43	\$454,560	\$454,560	\$4,592
Sewer	Sewer Main	Ontario Street	Ontario	1965	327	56	24	\$653,620	\$653,620	\$6,602
Sewer	Sewer Main	Ottawa Street	Ottawa	2017	362	4	76	\$724,160	\$724,160	\$7,315
Sewer	Sewer Main	Ottawa Street	Ottawa	2017	241	4	76	\$481,260	\$481,260	\$4,861
Sewer	Sewer Main	Park Crescent	Park	1995	305	26	54	\$609,900	\$609,900	\$6,161
Sewer	Sewer Main	Pine Street	Pine	1955	180	66	14	\$360,540	\$721,080	\$7,284
Sewer	Sewer Main	Pine Street	Pine	1955	119	66	14	\$238,280	\$476,560	\$4,814
Sewer	Sewer Main	Pine Street	Pine	1955	194	66	14	\$388,480	\$776,960	\$7,848
Sewer	Sewer Main	Poplar Crescent	Poplar	1955	261	66	14	\$521,420	\$1,042,840	\$10,534
Sewer	Sewer Main	Progress Crescent	Progress	1986	25	35	45	\$50,000	\$50,000	\$505
Sewer	Sewer Main	Progress Crescent	Progress	1986	303	35	45	\$605,000	\$605,000	\$6,111
Sewer	Sewer Main	Queen Street	Queen	2013	96	8	72	\$192,280	\$192,280	\$1,942
Sewer	Sewer Main	Radisson Crescent	Radisson	1975	663	46	34	\$1,326,540	\$1,326,540	\$13,399
Sewer	Sewer Main	Richmond Avenue	Richmond	1968	443	53	27	\$886.320	\$886,320	\$8,953
Sewer	Sewer Main	Riverside Drive	Riverside	1930	77	91	-11	\$154,640	\$309,280	\$3,124
Sewer	Sewer Main	Riverside Drive	Riverside	1930	557	91	-11	\$1,114,740	\$2,229,480	\$22,520
Sewer	Sewer Main	Riverside Drive	Riverside	1930	296	91	-11	\$591,220	\$1,182,440	\$11,944
Sewer	Sewer Main		Riverside	1930	78	91	-11	\$155,060	\$310,120	\$3,133
Sewer	Sewer Main	Riverside Drive	Riverside	1930	22	91	-11	\$44,920	\$89,840	\$907
Sewer	Sewer Main	Riverside Drive	Riverside	1930	209	91	-11	\$418,260	\$836,520	\$8,450
Sewer	Sewer Main	Riverside Drive	Riverside	1930	53	91	-11	\$106,400	\$212,800	\$2,149
Sewer	Sewer Forcemain	Riverside Drive	Riverside	1930	229	91	-11	\$458,920	\$917,840	\$9,271
Sewer	Sewer Main	Riverside Drive	Riverside	1930	305	91	-11	\$609,960	\$1,219,920	\$12,322
Sewer	Sewer Main	Riverside Drive	Riverside	1930	61	91	-11	\$121,220	\$242,440	\$2,449
Sewer	Sewer Main	Riverside Drive	Riverside	1930	56	91	-11	\$112,140	\$224,280	\$2,265
Sewer	Lift Station	Riverside Drive Lift Station West	102 Government Road	2005		16	34	\$500,000	\$1,000,000	\$10,101
Sewer	Sewer Main	Seaborne Crescent	Seaborne	1966	285	55	25	\$569,320	\$569,320	\$5,751
Sewer	Sewer Main	Seaborne Crescent	Seaborne	1966	74	55	25	\$147,560	\$147,560	\$1,491

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Sewer	Sewer Main	Sheppard Avenue	Sheppard	1994	51	27	53	\$101,600	\$101,600	\$1,026
Sewer	Sewer Main	Spruce Street	Spruce	1955	309	66	14	\$618,120	\$1,236,240	\$12,487
Sewer	Sewer Main	Spruce Street	Spruce	1955	139	66	14	\$277,580	\$555,160	\$5,608
Sewer	Sewer Main	Spruce Street	Spruce	1955	145	66	14	\$290,540	\$581,080	\$5,869
Sewer	Sewer Main	St.Clair Avenue	St. Claire	1960	106	61	19	\$212,800	\$425,600	\$4,299
Sewer	Sewer Main	St.Lawrence Avenue	St. Lawrence	2011	124	10	70	\$248,220	\$248,220	\$2,507
Sewer	Sewer Main	St.Lawrence Avenue	St. Lawrence	2011	298	10	70	\$595,040	\$595,040	\$6,011
Sewer	Sewer Main	St.Patrick Street	St. Patrick	1968	249	53	27	\$497,720	\$497,720	\$5,027
Sewer	Sewer Main	Stewart Avenue	Stewart	1930	291	91	-11	\$581,200	\$1,162,400	\$11,741
Sewer	Sewer Main	Stewart Avenue	Stewart	1930	66	91	-11	\$132,240	\$264,480	\$2,672
Sewer	Sewer Main	Summers Avenue	Summer	1930	70	91	-11	\$140,320	\$280,640	\$2,835
Sewer	Sewer Main	Superior Street	Superior	1960	177	61	19	\$354,920	\$709,840	\$7,170
Sewer	Sewer Main	Superior Street	Superior	1960	57	61	19	\$114,280	\$228,560	\$2,309
Sewer	Sewer Main	Sussex Street	Sussex	2014	123	7	73	\$245,140	\$245,140	\$2,476
Sewer	Sewer Main	Thibeault Street	Thibeault	1977	260	44	36	\$519,140	\$519,140	\$5,244
Sewer	Sewer Main	Thompson Road	Thompson	1969	350	52	28	\$700,380	\$700,380	\$7,075
Sewer	Sewer Main	Tremblay Street	Tremblay	1953	74	68	12	\$148,800	\$297,600	\$3,006
Sewer	Sewer Main	Trudeau Avenue	Trudeau	1969	262	52	28	\$524,860	\$524,860	\$5,302
Sewer	Sewer Main	Vanier Street	Vanier	1968	138	53	27	\$276,980	\$276,980	\$2,798
Sewer	Sewer Main	Victoria Avenue	Victoria	1930	212	91	-11	\$423,220	\$846,440	\$8,550
Sewer	Treatment Plant	Waste Water Treatment Plant	20 Montgomery Avenue	2013		8	32	\$15,000,000	\$30,000,000	\$303,030
Sewer	Sewer Forcemain	West Riverside	West Riverside	1980	492	41	39	\$983,120	\$983,120	\$9,931
Sewer	Sewer Forcemain	West Riverside	West Riverside	1980	337	41	39	\$674,340	\$674,340	\$6,812
Sewer	Sewer Forcemain	West Riverside	West Riverside	1980	421	41	39	\$842,240	\$842,240	\$8,507
Sewer	Sewer Forcemain	West Riverside	West Riverside	1980	61	41	39	\$121,580	\$121,580	\$1,228
Sewer	Sewer Main	West Riverside	West Riverside	1980	1009	41	39	\$2,017,320	\$2,017,320	\$20,377
Sewer	Sewer Forcemain	West Riverside	West Riverside	1980	718	41	39	\$1,436,780	\$1,436,780	\$14,513
Sewer	Sewer Main	West Riverside	West Riverside	1980	25	41	39	\$49,820	\$49,820	\$503
Sewer	Sewer Main	Willow Street	Willow	1952	89	69	11	\$178,240	\$356,480	\$3,601
Sewer	Sewer Main	Winnipeg Street	Winnipeg	2017	311	4	76	\$622,080	\$622,080	\$6,284
Sewer	Sewer Main	Wolfe Street	Wolfe	1965	530	56	24	\$1,060,940	\$1,060,940	\$10,717
Sewer	Sewer Main	Wolfe Street (up to Hudson)	Between Wolf and Hudson	1965	215	56	24	\$430,420	\$430,420	\$4,348

Appendix F: Stormwater Asset Inventory

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Storm	Storm Main	Abbot Street	Abbot	1969	139	52	28	\$138,790	\$138,790	\$1,402
Storm	Storm Main	Abbot Street	Abbot	1969	68	52	28	\$67,500	\$67,500	\$682
Storm	Storm Main	Anderson Street	Anderson	1930	22	91	-11	\$21,550	\$43,100	\$435
Storm	Storm Main	Anderson Street	Anderson	1930	267	91	-11	\$267,380	\$534,760	\$5,402
Storm	Storm Main	Anderson Street	Anderson	1930	178	91	-11	\$178,350	\$356,700	\$3,603
Storm	Storm Main	Ash Street	Ash	1955	80	66	14	\$79,530	\$159,060	\$1,607
Storm	Storm Main	Ash Street	Ash	1955	37	66	14	\$36,980	\$73,960	\$747
Storm	Storm Main	Ash Street	Ash	1955	480	66	14	\$480,370	\$960,740	\$9,704
Storm	Storm Main	Avenue Road	Avenue	1966	30	55	25	\$29,510	\$29,510	\$298
Storm	Storm Main	Avenue Road	Avenue	1966	211	55	25	\$210,950	\$210,950	\$2,131
Storm	Storm Main	Avenue Road	Avenue	1966	324	55	25	\$324,440	\$324,440	\$3,277
Storm	Storm Main	Avenue Road	Avenue	1966	136	55	25	\$135,680	\$135,680	\$1,371
Storm	Storm Main	Avenue Road	Avenue	1966	27	55	25	\$26,810	\$26,810	\$271
Storm	Storm Main	Avenue Road	Avenue	1966	49	55	25	\$48,540	\$48,540	\$490
Storm	Storm Main	Behind Town Shop	Behind Town Shop	1955	133	66	14	\$133,410	\$266,820	\$2,695
Storm	Storm Main	Behind Town Shop	Behind Town Shop	1955	182	66	14	\$181,730	\$363,460	\$3,671
Storm	Storm Main	Behind Town Shop	Behind Town Shop	1955	323	66	14	\$323,120	\$646,240	\$6,528
Storm	Storm Main	Behind Town Shop	Behind Town Shop	1955	219	66	14	\$218,870	\$437,740	\$4,422
Storm	Storm Main	Birch Street	Birch	1955	41	66	14	\$40,850	\$81,700	\$825
Storm	Storm Main	Borden Avenue	Borden	1969	31	52	28	\$31,330	\$31,330	\$316
Storm	Storm Main	Borden Avenue	Borden	1969	85	52	28	\$85,450	\$85,450	\$863
Storm	Storm Main	Borden Avenue	Borden	1969	94	52	28	\$94,300	\$94,300	\$953
Storm	Storm Main	Bouldier Street	Bouldier	1953	11	68	12	\$10,700	\$21,400	\$216
Storm	Storm Main	Bouldier Street	Bouldier	1953	17	68	12	\$16,600	\$33,200	\$335
Storm	Storm Main	Bowman Avenue	Bowman	1930	108	91	-11	\$107,720	\$215,440	\$2,176
Storm	Storm Main	Bowman Avenue	Bowman	1930	117	91	-11	\$116,700	\$233,400	\$2,358
Storm	Storm Main	Bowman Avenue	Bowman	1930	109	91	-11	\$108,930	\$217,860	\$2,201
Storm	Storm Main	Bowman Avenue	Bowman	1930	204	91	-11	\$203,970	\$407,940	\$4,121
Storm	Storm Main	Bowman Avenue	Bowman	1930	206	91	-11	\$206,090	\$412,180	\$4,163
Storm	Storm Main	Brock Crescent	Brock	1965	87	56	24	\$87,380	\$87,380	\$883
Storm	Storm Main	Brock Crescent	Brock	1965	31	56	24	\$30,980	\$30,980	\$313
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	307	29	51	\$307,390	\$307,390	\$3,105
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	31	29	51	\$31,430	\$31,430	\$317
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	120	29	51	\$120,340	\$120,340	\$1,216
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	190	29	51	\$189,850	\$189,850	\$1,918
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	51	29	51	\$50,660	\$50,660	\$512
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	32	29	51	\$31,920	\$31,920	\$322
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	191	29	51	\$190,920	\$190,920	\$1,928
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	184	29	51	\$183,710	\$183,710	\$1,856
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	71	29	51	\$71,440	\$71,440	\$722
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	56	29	51	\$55,670	\$55,670	\$562

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	66	29	51	\$66,080	\$66,080	\$667
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	116	29	51	\$116,330	\$116,330	\$1,175
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	121	29	51	\$120,610	\$120,610	\$1,218
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	36	29	51	\$36,400	\$36,400	\$368
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	78	29	51	\$77,980	\$77,980	\$788
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	60	29	51	\$60,070	\$60,070	\$607
Storm	Storm Main	Brunelle Road North	Brunelle N	1992	307	29	51	\$307,390	\$307,390	\$3,105
Storm	Storm Main	Brunetville Road	Brunetville	1988	23	33	47	\$22,850	\$22,850	\$231
Storm	Storm Main	Brunetville Road	Brunetville	1988	19	33	47	\$19,470	\$19,470	\$197
Storm	Storm Main	Brunetville Road	Brunetville	1988	100	33	47	\$100,440	\$100,440	\$1,015
Storm	Storm Main	Brunetville Road	Brunetville	1988	84	33	47	\$84.210	\$84,210	\$851
Storm	Storm Main	Brunetville Road	Brunetville	1988	313	33	47	\$313,060	\$313,060	\$3,162
Storm	Storm Main	Brunetville Road	Brunetville	1988	324	33	47	\$323,800	\$323,800	\$3,271
Storm	Storm Main	Brunetville Road	Brunetville	1988	1122	33	47	\$1,122,250	\$1,122,250	\$11,336
Storm	Storm Main	Byng Avenue	Byng	1930	177	91	-11	\$177,390	\$354,780	\$3,584
Storm	Storm Main	Byng Avenue	Byng	1930	33	91	-11	\$32.540	\$65,080	\$657
Storm	Storm Main	Cain Street	Cain	1994	175	27	53	\$174,540	\$174,540	\$1,763
Storm	Storm Main	Cedar Street	Cedar	2010	19	11	69	\$18.650	\$18,650	\$188
Storm	Storm Main	Cedar Street	Cedar	2010	15	11	69	\$14,780	\$14,780	\$149
Storm	Storm Main	Cedar Street	Cedar	2010	363	11	69	\$363,320	\$363,320	\$3,670
Storm	Storm Main	Cherry Avenue	Cherry	1955	96	66	14	\$95,530	\$191,060	\$1,930
Storm	Storm Main	Cherry Avenue	Cherry	1955	16	66	14	\$15,830	\$31,660	\$320
Storm	Storm Main	Circle Street	Circle	1994	6	27	53	\$6,340	\$6,340	\$64
Storm	Storm Main	Circle Street	Circle	1994	45	27	53	\$45,020	\$45,020	\$455
Storm	Storm Main	Circle Street	Circle	1994	64	27	53	\$63.630	\$63,630	\$643
Storm	Storm Main	Circle Street	Circle	1994	28	27	53	\$28,470	\$28,470	\$288
Storm	Storm Main	Circle Street	Circle	1994	11	27	53	\$11,210	\$11,210	\$113
Storm	Storm Main	Cite des Jeunes Boulevard	Cite des Jeunes	2006	76	15	65	\$75,750	\$75,750	\$765
Storm	Storm Main	Cite des Jeunes Boulevard	Cite des Jeunes	2006	56	15	65	\$56,250	\$56,250	\$568
Storm	Storm Main	Cite des Jeunes Boulevard	Cite des Jeunes	2006	8	15	65	\$8.340	\$8,340	\$84
Storm	Storm Main	Cite des Jeunes Boulevard	Cite des Jeunes	2006	59	15	65	\$59,360	\$59,360	\$600
Storm	Storm Main	Cite des Jeunes Boulevard	Cite des Jeunes	2006	161	15	65	\$161.040	\$161.040	\$1.627
Storm	Storm Main	Cite des Jeunes Boulevard	Cite des Jeunes	2006	235	15	65	\$234,590	\$234,590	\$2.370
Storm	Storm Main	Cloutier Place	Cloutier	1969	35	52	28	\$35,280	\$35,280	\$356
Storm	Storm Main	Corona Avenue	Corona	1983	19	38	42	\$19,040	\$19,040	\$192
Storm	Storm Main	Cournoyer Street	Cournoyer	1952	349	69	11	\$349,180	\$698,360	\$7,054
Storm	Storm Main	Dallyn Avenue	Dallyn	1930	45	91	-11	\$44,550	\$89,100	\$900
Storm	Storm Main	De L'Etang Boulevard	De L'etang	1952	240	69	11	\$239,890	\$479,780	\$4,846
Storm	Storm Main	De L'Etang Boulevard	De L'etang	1952	172	69	11	\$171,630	\$343,260	\$3,467
Storm	Storm Main	Devonshire Street	Devonshire	1930	20	91	-11	\$20,120	\$40,240	\$406
Storm	Storm Main	Devonshire Street	Devonshire	1930	70	91	-11	\$70,110	\$140,220	\$1,416
Storm	Storm Main	Devonshire Street	Devonshire	1930	146	91	-11	\$145,850	\$291,700	\$2,946
Storm	Storm Main	Dominion Avenue	Dominion	1930	139	91	-11	\$138,960	\$291,700	\$2,807

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Storm	Storm Main	Dominion Avenue	Dominion	1930	149	91	-11	\$149,190	\$298,380	\$3,014
Storm	Storm Main	Drury Street	Drury	1930	67	91	-11	\$67,330	\$134,660	\$1,360
Storm	Storm Main	Egerton Avenue	Egerton	2015	36	6	74	\$35,740	\$35,740	\$361
Storm	Storm Main	Egerton Avenue	Egerton	2015	78	6	74	\$78,260	\$78,260	\$791
Storm	Storm Main	Elm Street	Elm	1994	70	27	53	\$69,630	\$69,630	\$703
Storm	Storm Main	Elm Street	Elm	1994	299	27	53	\$299,060	\$299,060	\$3,021
Storm	Storm Main	Frontenac Crescent	Frontenac	1965	163	56	24	\$162,850	\$162,850	\$1,645
Storm	Storm Main	Frontenac Crescent	Frontenac	1965	117	56	24	\$116,900	\$116,900	\$1,181
Storm	Storm Main	Golf Street	Golf	2015	47	6	74	\$47,370	\$47,370	\$478
Storm	Storm Main	Government Road	Government Rd E	1981	7	40	40	\$6,750	\$6,750	\$68
Storm	Storm Main	Government Road	Government Rd E	1981	17	40	40	\$16.710	\$16,710	\$169
Storm	Storm Main	Government Road	Government Rd E	1981	28	40	40	\$27,500	\$27,500	\$278
Storm	Storm Main	Government Road	Government Rd E	1981	31	40	40	\$31,230	\$31,230	\$315
Storm	Storm Main	Government Road	Government Rd E	1981	30	40	40	\$29,630	\$29,630	\$299
Storm	Storm Main	Government Road	Government Rd E	1981	26	40	40	\$25,590	\$25,590	\$258
Storm	Storm Main	Government Road	Government Rd E	1981	484	40	40	\$483.690	\$483,690	\$4,886
Storm	Storm Main	Government Road	Hwy E Easement	1981	21	40	40	\$21,300	\$21,300	\$215
Storm	Storm Main	Government Road	Hwy E Easement	1981	98	40	40	\$97.520	\$97.520	\$985
Storm	Storm Main	Government Road	Hwy E Easement	1981	16	40	40	\$16,370	\$16,370	\$165
Storm	Storm Main	Hazel Street	Hazel	1969	174	52	28	\$173,770	\$173,770	\$1,755
Storm	Storm Main	Hazel Street	Hazel	1969	55	52	28	\$55,260	\$55,260	\$558
Storm	Storm Main	Henderson Avenue	Henderson	1984	216	37	43	\$216.180	\$216,180	\$2,184
Storm	Storm Main	Hudson Place	Hudson	1965	113	56	24	\$112,690	\$112,690	\$1,138
Storm	Storm Main	Hudson Place	Hudson	1965	9	56	24	\$8,870	\$8,870	\$90
Storm	Storm Main	Huron Street	Huron	1997	30	24	56	\$29.500	\$29.500	\$298
Storm	Storm Main	Huron Street	Huron	1997	125	24	56	\$124,640	\$124,640	\$1,259
Storm	Storm Main	Kennedy Avenue	Kennedy	1966	98	55	25	\$97,940	\$97,940	\$989
Storm	Storm Main	Kennedy Avenue	Kennedy	1966	55	55	25	\$54,630	\$54,630	\$552
Storm	Storm Main	Kent Place	Kent	1966	29	55	25	\$28,850	\$28,850	\$291
Storm	Storm Main	Kimberly Drive	Kimberly	1966	29	55	25	\$20,000	\$20,000	\$203
Storm	Storm Main	Kimberly Drive	Kimberly	1966	626	55	25	\$625,600	\$625,600	\$6,319
Storm	Storm Main	King Street	King	1900	102	91	-11	\$102.170	\$204.340	\$2.064
Storm	Storm Main	Killy Street Kolb Avenue	Kolb	1930	162	91	-11	\$162,010	\$204,340	\$2,004
Storm	Storm Main	Lang Avenue	Lang	1930	44	91	-11	\$44,420	\$88,840	\$897
Storm	Storm Main	Lang Avenue	Lang	1930	137	91	-11	\$136,900	\$273,800	\$2,766
Storm	Storm Main	Lang Avenue	Lang	1930	28	91	-11	\$130,900	\$56,280	\$568
Storm	Storm Main	Laurier Crescent	Lang	1930	20	48	-11	\$20,140	\$22,080	\$223
Storm	Storm Main	Lemarier Street		2017	36	40	76	\$22,080	\$22,080	\$223
	Storm Main		Lemarier	1973	16	4	32	\$36,400	\$36,400	\$368
Storm		Macdonald Street	Macdonald			-		. ,	. ,	
Storm	Storm Main	Marquette Street	Marquette	1965	9	56	24	\$8,970	\$8,970	\$91
Storm	Storm Main	Marquette Street	Marquette	1965	32	56	24	\$32,110	\$32,110	\$324
Storm	Storm Main	Marquette Street	Marquette	1965	22	56	24	\$21,540	\$21,540	\$218
Storm	Storm Main	Mateev Avenue	Mateev	1966	148	55	25	\$147,680	\$147,680	\$1,492

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Storm	Storm Main	Mateev Avenue	Mateev	1966	350	55	25	\$349,980	\$349,980	\$3,535
Storm	Storm Main	McPherson Avenue	McPherson	1930	43	91	-11	\$43,120	\$86,240	\$871
Storm	Storm Main	McPherson Avenue	McPherson	1930	72	91	-11	\$71,790	\$143,580	\$1,450
Storm	Storm Main	McPherson Avenue	McPherson	1930	55	91	-11	\$55,060	\$110,120	\$1,112
Storm	Storm Main	McPherson Avenue	McPherson	1930	68	91	-11	\$67,750	\$135,500	\$1,369
Storm	Storm Main	McPherson Avenue	McPherson	1930	138	91	-11	\$137,690	\$275,380	\$2,782
Storm	Storm Main	Migneault Avenue	Migneault	1977	114	44	36	\$114,040	\$114,040	\$1,152
Storm	Storm Main	Mill Street	Mill	2003	57	18	62	\$56,830	\$56,830	\$574
Storm	Storm Main	Mill Street	Mill	2003	12	18	62	\$12,330	\$12,330	\$125
Storm	Storm Main	Mill Street	Mill	2003	22	18	62	\$21,720	\$21,720	\$219
Storm	Storm Main	Mill Street	Mill	2003	118	18	62	\$117,670	\$117,670	\$1,189
Storm	Storm Main	Mill Street	Mill	2003	161	18	62	\$160,530	\$160,530	\$1,622
Storm	Storm Main	Mill Street	Mill	2003	126	18	62	\$126,020	\$126,020	\$1,273
Storm	Storm Main	Mill Street	Mill	2003	291	18	62	\$290,560	\$290,560	\$2,935
Storm	Storm Main	Mill Street	Mill	2003	40	18	62	\$39,650	\$39,650	\$401
Storm	Storm Main	Montgomery	Montgomery	1930	28	91	-11	\$27,730	\$55,460	\$560
Storm	Storm Main	Mundy	Mundy	1930	343	91	-11	\$343,360	\$686,720	\$6,937
Storm	Storm Main	Murdock Street	Murdock	1930	75	91	-11	\$75.150	\$150.300	\$1,518
Storm	Storm Main	Murray	Murray	1975	39	46	34	\$39,180	\$39,180	\$396
Storm	Storm Main	Nipigon Avenue	Nipigon	2017	25	4	76	\$25,210	\$25,210	\$255
Storm	Storm Main	Nipigon Avenue	Nipigon	2017	16	4	76	\$16,100	\$16,100	\$163
Storm	Storm Main	Nipigon Avenue	Nipigon	2017	66	4	76	\$66,210	\$66,210	\$669
Storm	Storm Main	Nipigon Avenue	Nipigon	2017	54	4	76	\$54,350	\$54,350	\$549
Storm	Storm Main	Nipigon Avenue	Nipigon	2017	101	4	76	\$101,310	\$101,310	\$1,023
Storm	Storm Main	Oak Street	Oak	1955	12	66	14	\$12.330	\$24,660	\$249
Storm	Storm Main	O'Brien Avenue	O'Brien	1984	165	37	43	\$164,930	\$164,930	\$1,666
Storm	Storm Main	O'Brien Avenue	O'Brien	1984	40	37	43	\$39,710	\$39,710	\$401
Storm	Storm Main	Ontario Street	Ontario	1965	72	56	24	\$72,170	\$72,170	\$729
Storm	Storm Main	Ottawa Street	Ottawa	2017	93	4	76	\$92,890	\$92,890	\$938
Storm	Storm Main	Ottawa Street	Ottawa	2017	62	4	76	\$61,850	\$61,850	\$625
Storm	Storm Main	Park Crescent	Park	1995	39	26	54	\$39,400	\$39,400	\$398
Storm	Storm Main	Park Crescent	Park	1995	120	26	54	\$120,360	\$120,360	\$1,216
Storm	Storm Main	Park Crescent	Park	1995	28	26	54	\$27,500	\$27,500	\$278
Storm	Storm Main	Park Crescent	Park	1995	112	26	54	\$111,760	\$111,760	\$1,129
Storm	Storm Main	Pine Street	Pine	1955	32	66	14	\$32,100	\$64,200	\$648
Storm	Storm Main	Poplar Crescent	Poplar	1955	33	66	14	\$33,250	\$66,500	\$672
Storm	Storm Main	Progress Crescent	Progress	1986	76	35	45	\$75,570	\$75,570	\$763
Storm	Storm Main	Progress Crescent	Progress	1986	665	35	45	\$665,070	\$665,070	\$6,718
Storm	Storm Main	Queen Street	Queen	1930	14	91	-11	\$13,780	\$27,560	\$278
Storm	Storm Main	Queen Street	Queen	1930	252	91	-11	\$252,200	\$504,400	\$5,095
Storm	Storm Main	Radisson Crescent	Radisson	1975	191	46	34	\$191,140	\$191,140	\$1,931
Storm	Storm Main	Radisson Crescent	Radisson Easement	1975	382	46	34	\$382,060	\$382,060	\$3,859
Storm	Storm Main	Radisson Crescent	Radisson Easement	1975	111	46	34	\$111,250	\$111,250	\$1,124

Category	Segment	Asset Name	Location Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Storm	Storm Main	Radisson Crescent	Radisson Easement	1975	125	46	34	\$125,330	\$125,330	\$1,266
Storm	Storm Main	Radisson Crescent	Radisson Easement	1975	86	46	34	\$86,440	\$86,440	\$873
Storm	Storm Main	Richmond Avenue	Richmond	1968	56	53	27	\$55,650	\$55,650	\$562
Storm	Storm Main	Riverside Drive	Riverside	1930	137	91	-11	\$137,300	\$274,600	\$2,774
Storm	Storm Main	Riverside Drive	Riverside	1930	395	91	-11	\$394,570	\$789,140	\$7,971
Storm	Storm Main	Riverside Drive	Riverside	1930	100	91	-11	\$100,360	\$200,720	\$2,027
Storm	Storm Main	Riverside Drive	Riverside	1930	221	91	-11	\$220,970	\$441,940	\$4,464
Storm	Storm Main	Riverside Drive	Riverside West	1983	132	38	42	\$132,080	\$132,080	\$1,334
Storm	Storm Main	Seaborne Crescent	Seaborne	1966	49	55	25	\$49,390	\$49,390	\$499
Storm	Storm Main	Sheppard Avenue	Sheppard	1994	40	27	53	\$39,960	\$39,960	\$404
Storm	Storm Main	Sheppard Avenue	Sheppard	1994	22	27	53	\$22,230	\$22,230	\$225
Storm	Storm Main	Sheppard Avenue	Sheppard	1994	115	27	53	\$115,180	\$115,180	\$1,163
Storm	Storm Main	Sheppard Avenue	Sheppard	1994	5	27	53	\$4,640	\$4,640	\$47
Storm	Storm Main	Spruce Street	Spruce	1955	39	66	14	\$38,640	\$77,280	\$781
Storm	Storm Main	St.Lawrence Avenue	St. Lawrence	2011	7	10	70	\$6,890	\$6,890	\$70
Storm	Storm Main	St.Lawrence Avenue	St. Lawrence	2011	87	10	70	\$86,730	\$86,730	\$876
Storm	Storm Main	St.Lawrence Avenue	St. Lawrence	2011	16	10	70	\$16,320	\$16,320	\$165
Storm	Storm Main	St.Lawrence Avenue	St. Lawrence	2011	58	10	70	\$58,360	\$58,360	\$589
Storm	Storm Main	St.Lawrence Avenue	St. Lawrence	2011	20	10	70	\$19,920	\$19,920	\$201
Storm	Storm Main	St.Lawrence Avenue	St. Lawrence	2011	69	10	70	\$68,700	\$68,700	\$694
Storm	Storm Main	St.Lawrence Avenue	St. Lawrence	2011	62	10	70	\$62,280	\$62,280	\$629
Storm	Storm Main	St.Lawrence Avenue	St. Lawrence	2011	135	10	70	\$134,530	\$134,530	\$1,359
Storm	Storm Main	Summers Avenue	Summer	1930	35	91	-11	\$34,530	\$69,060	\$698
Storm	Storm Main	Summers Avenue	Summer	1930	11	91	-11	\$11,140	\$22,280	\$225
Storm	Storm Main	Superior Street	Superior	1960	21	61	19	\$21,320	\$42,640	\$431
Storm	Storm Main	Sussex Street	Sussex	1966	41	55	25	\$41,040	\$41,040	\$415
Storm	Storm Main	Thibeault Street	Thibeault	1977	18	44	36	\$17,650	\$17,650	\$178
Storm	Storm Main	Thibeault Street	Thibeault	1977	14	44	36	\$14,120	\$14,120	\$143
Storm	Storm Main	Thibeault Street	Thibeault	1977	253	44	36	\$252,720	\$252,720	\$2,553
Storm	Storm Main	Thompson Road	Thompson	1969	105	52	28	\$105,260	\$105,260	\$1,063
Storm	Storm Main	Thompson Road	Thompson	1969	119	52	28	\$118,970	\$118,970	\$1,202
Storm	Storm Main	Thompson Road	Thompson	1969	49	52	28	\$48,680	\$48,680	\$492
Storm	Storm Main	Thompson Road	Thompson	1969	32	52	28	\$31,980	\$31,980	\$323
Storm	Storm Main	Trudeau Avenue	Trudeau	1969	125	52	28	\$125,390	\$125,390	\$1,267
Storm	Storm Main	Trudeau Avenue	Trudeau	1969	30	52	28	\$30,260	\$30,260	\$306
Storm	Storm Main	Vanier Street	Vanier	1968	10	53	27	\$10,030	\$10,030	\$101
Storm	Storm Main	Victoria Avenue	Victoria	1930	20	91	-11	\$20,050	\$40,100	\$405
Storm	Storm Main	West Riverside		1983	132	38	42	\$132,080	\$132,080	\$1,334
Storm	Storm Main	Winnipeg Street	Winnipeg	2017	9	4	76	\$8,600	\$8,600	\$87
Storm	Storm Main	Wolfe Street	Wolfe	1965	36	56	24	\$35,530	\$35,530	\$359

Appendix G: Paved Roads Asset Inventory

Category	Segment	Asset Name	Location Details	Length (m)	Width (m)	Road Type	Visual Road Condition (1-5)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Roads	НСВ	Abbot Street	Borden Ave to East end of Borden	165	10	Local	2	30	\$57,750	\$115,500	\$1,167
Roads	НСВ	Airport Place	Government Rd to North end of road	115	10	Local	2	30	\$40,250	\$80,500	\$813
Roads	HCB	Albany Street	Nipigon Ave to Ottawa St	244	9.2	Local	1	40	\$78,568	\$157,136	\$1,587
Roads	HCB	Albert Street	Laval St to Lemarier St	325	8.1	Local	2	30	\$92,138	\$184,275	\$1,861
Roads	HCB	Algonquin Street	Lasalle Ave to Richmond Ave	290	7.4	Local	1	40	\$75,110	\$150,220	\$1,517
Roads	HCB	Anderson Street	Devonshire St to Murdock St	115	9.1	Local	5	0	\$36,628	\$109,883	\$1,110
Roads	HCB	Anderson Street	Murdock St to Egerton Ave	116	9.1	Local	5	0	\$36,946	\$110,838	\$1,120
Roads	HCB	Ash Street	Spruce St to Maple Dr	87	9	Collector	3	15	\$27,405	\$82,215	\$830
Roads	HCB	Ash Street	Maple Dr to St. Lawrence St	141	9	Collector	3	15	\$44,415	\$133,245	\$1,346
Roads	HCB	Ash Street	St. Lawrence St to Cedar St	87	9	Collector	3	15	\$27,405	\$82,215	\$830
Roads	HCB	Ash Street	Cedar St. to Brunetville Rd	243	9	Collector	3	15	\$76,545	\$229,635	\$2,320
Roads	HCB	Ash Street	Nipigon Ave to Spruce St	181	9	Collector	3	15	\$57,015	\$171,045	\$1,728
Roads	HCB	Aurora Avenue	Devonshire St to Corona Ave	99	10.9	Local	5	0	\$37,769	\$113,306	\$1,145
Roads	HCB	Aurora Avenue	Corona Ave to Hall Ave	95	10.9	Local	5	0	\$36,243	\$108,728	\$1,098
Roads	HCB	Aurora Avenue	Hall Ave to Summers Ave	90	10.9	Local	5	0	\$34,335	\$103,005	\$1,040
Roads	HCB	Aurora Avenue	Summers Ave to Devonshire St	103	10.9	Local	5	0	\$39,295	\$117,884	\$1,191
Roads	НСВ	Government Road	Brunelle Rd North to Lasalle Ave	93	20	Arterial	2	15	\$130,200	\$520,800	\$5,261
Roads	HCB	Government Road	Lasalle Ave to Richmond Ave	323	20	Arterial	2	15	\$452,200	\$1,808,800	\$18,271
Roads	HCB	Government Road	Richmond Ave to Gurney Rd	383	20	Arterial	2	15	\$536,200	\$2,144,800	\$21,665
Roads	HCB	Government Road	Gurney Rd to Caron St	1213	20	Arterial	2	15	\$1,698,200	\$6,792,800	\$68,614
Roads	HCB	Government Road	Caron St to Clear Lake Rd	1500	20	Arterial	2	15	\$2,100,000	\$8,400,000	\$84,848
Roads	НСВ	Government Road	Clear Lake Rd to East end of Town limits	1669	20	Arterial	2	15	\$2,336,600	\$9,346,400	\$94,408
Roads	HCB	Balsam Ave	Cedar St to Brunetville Rd	243	12.1	Local	5	0	\$102,911	\$308,732	\$3,119
Roads	HCB	Government Road	McPherson Ave to O'Brien Ave	199	20	Arterial	2	15	\$278,600	\$1,114,400	\$11,257
Roads	HCB	Government Road	O'Brien Ave to Riverside Dr	197	20	Arterial	2	15	\$275,800	\$1,103,200	\$11,143
Roads	HCB	Government Road	Riverside Dr to Golf St	711	20	Arterial	2	15	\$995,400	\$3,981,600	\$40,218
Roads	HCB	Government Road	Golf St to De L'Etang Blvd	43	20	Arterial	2	15	\$60,200	\$240,800	\$2,432
Roads	НСВ	Government Road	De L'Etang Blvd to Brunelle Rd North	516	20	Arterial	2	15	\$722,400	\$2,889,600	\$29,188
Roads	НСВ	Government Road	West end of Town limits to Airport PI	584	20	Arterial	2	15	\$817,600	\$3,270,400	\$33,034
Roads	HCB	Government Road	Airport PI to Bonnieview Rd	1844	20	Arterial	2	15	\$2,581,600	\$10,326,400	\$104,307
Roads	НСВ	Government Road	Bonnieview Rd to McPherson Ave	1638	20	Arterial	2	15	\$2,293,200	\$9,172,800	\$92,655
Roads	HCB	Borden Avenue	Hazel St to Abbot St	87	10	Local	2	30	\$30,450	\$60,900	\$615
Roads	НСВ	Borden Avenue	Abbot St to North end of Borden Ave	31	10	Local	2	30	\$10,850	\$21,700	\$219
Roads	HCB	Bouldier Street	Mill St to Downs Ave	140	7.3	Local	3	20	\$35,770	\$107,310	\$1,084
Roads	HCB	Bouldier Street	Downs Ave to Tremblay St	179	7.3	Local	3	20	\$45,735	\$137,204	\$1,386
Roads	НСВ	Bouldier Street	Tremblay St to South end of Bouldier St	83	7.3	Local	3	20	\$21,207	\$63,620	\$643
Roads	HCB	Bowman Avenue	Riverside Dr to Drury St	215	7.3	Local	4	5	\$54,933	\$164,798	\$1,665
Roads	HCB	Avenue Road	Kimberly Dr to Sofija St	211	11.9	Local	3	20	\$87,882	\$263,645	\$2,663
Roads	HCB	Avenue Road	Sofija St to Clark St	135	11.9	Local	3	20	\$56,228	\$168,683	\$1,704
Roads	HCB	Avenue Road	Clark St to Mateev Ave	90	11.9	Local	3	20	\$37,485	\$112,455	\$1,136
Roads	НСВ	Avenue Road	Mateev Ave to North end of Avenue Rd	44	11.9	Local	3	20	\$18,326	\$54,978	\$555

Category	Segment	Asset Name	Location Details	Length (m)		Road Type	Visual Road Condition (1-5)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Roads	HCB	Avenue Road	Murdock St to Progress Cr	254	12.1	Local	2	30	\$107,569	\$215,138	\$2,173
Roads	HCB	Brock Crescent	Ontario St to Cartier Ave	79	10.2	Local	3	20	\$28,203	\$84,609	\$855
Roads	НСВ	Brock Crescent	Cartier Ave to Cite des Jeunes Blvd	92	10.2	Local	3	20	\$32,844	\$98,532	\$995
Roads	НСВ	Brock Crescent	Cite des Jeunes Blvd to Brunetville Rd	277	8	Local	2	30	\$77,560	\$155,120	\$1,567
Roads	HCB	Brown Crescent	Macdonald St to Laurier Cr	233	7.5	Local	2	30	\$61,163	\$122,325	\$1,236
Roads	НСВ	Brunelle Road North	Brunetville Rd to Cite des Jeunes Blvd	294	7.3	Collector	4	5	\$75,117	\$300,468	\$3,035
Roads	НСВ	Brunelle Road North	Cite des Jeunes Blvd to Macdonald St	551	7.3	Collector	4	5	\$140,781	\$563,122	\$5,688
Roads	НСВ	Brunelle Road North	Macdonald St to De L'Etang Blvd	132	7.3	Collector	4	5	\$33,726	\$134,904	\$1,363
Roads	HCB	Brunelle Road North	De L'Etang Blvd to Vanier St	51	7.3	Collector	4	5	\$13,031	\$52,122	\$526
Roads	HCB	Brunelle Road North	Vanier St to Cournoyer St	100	7.3	Collector	4	5	\$25,550	\$102,200	\$1,032
Roads	НСВ	Brunelle Road North	Cournoyer St to Government Rd	127	7.3	Collector	4	5	\$32,449	\$129,794	\$1,311
Roads	HCB	Brunelle Road South	Tremblay St to Gough Rd	1274	6.5	Collector	4	5	\$289,835	\$1,159,340	\$11,711
Roads	HCB	Brunelle Road South	Mill St to Tremblay St	320	7.3	Collector	4	5	\$81,760	\$327,040	\$3,303
Roads	HCB	Brunelle Road South	Lemarier St to Mill St	299	7.3	Collector	4	5	\$76,395	\$305,578	\$3,087
Roads	HCB	Brunelle Road South	Government Rd to Lemarier St	55	7.3	Collector	4	5	\$14,053	\$56,210	\$568
Roads	НСВ	Brunetville Road	Brunelle Rd North to Nelson Ave	328	10.1	Collector	4	5	\$115,948	\$463,792	\$4,685
Roads	HCB	Brunetville Road	Nelson Ave to Don Ave	127	6.5	Collector	4	5	\$28,893	\$115,570	\$1,167
Roads	HCB	Brunetville Road	Sheppard St to Byng Ave	90	9.7	Collector	3	15	\$30,555	\$91,665	\$926
Roads	HCB	Brunetville Road	Byng Ave to Ash St	362	9.7	Collector	3	15	\$122,899	\$368,697	\$3,724
Roads	HCB	Brunetville Road	Ash St to Cherry Ave	103	9.7	Collector	3	15	\$34,969	\$104,906	\$1,060
Roads	HCB HCB	Brunetville Road	Cherry Ave to Balsam Ave	87 349	9.7	Collector	3	15	\$29,537	\$88,610	\$895
Roads	HCB	Brunetville Road Brunetville Road	Balsam Ave to Ontario St Ontario St to Cartier Ave	<u>349</u> 84	9.7 9.7	Collector Collector	3	15 15	\$118,486 \$28,518	\$355,457 \$85,554	\$3,590 \$864
Roads Roads	НСВ	Brunetville Road	Cartier Ave to Wolfe St	32	9.7	Collector	3	15	\$10,864	\$32,592	\$329
Roads	HCB	Brunetville Road	Wolfe St to Brock Cr	63	9.7	Collector	3	15	\$21,389	\$64,166	\$648
Roads	НСВ	Brunetville Road	Brock Cr to Hudson Pl	146	9.7	Collector	3	15	\$49.567	\$148.701	\$1.502
Roads	НСВ	Brunetville Road	Hudson PI to Erickson Ave	61	9.7	Collector	3	15	\$20,710	\$62,129	\$628
Roads	НСВ	Brunetville Road	Erickson Ave to Brunelle Rd North	81	9.7	Collector	3	15	\$27,500	\$82,499	\$833
Roads	НСВ	Byng Avenue	Riverside Dr to Queen St	153	10.4	Collector	4	5	\$55,692	\$222,768	\$2,250
Roads	HCB	Byng Avenue	Queen St to Sheppard St	108	10.4	Collector	4	5	\$39,312	\$157,248	\$1,588
Roads	HCB	Avenue Road	Progress Cr to Kimberly Dr	199	12.1	Local	2	30	\$84,277	\$168,553	\$1,703
Roads	HCB	Birch Street	Elm St to Oak St	87	10.3	Local	4	5	\$31,364	\$94,091	\$950
Roads	HCB	Birch Street	Oak St to Oak St	152	10.3	Local	4	5	\$54,796	\$164,388	\$1,660
Roads	НСВ	Byng Avenue	Mundy Ave to West end of Byng Ave	155	10.4	Local	3	20	\$56,420	\$169,260	\$1,710
Roads	HCB	Birch Street	Oak St to Cedar St	87	10.3	Local	4	5	\$31,364	\$94,091	\$950
Roads	HCB	Cabot Street	Frontenac Cr to Wolfe St	106	7.5	Local	5	0	\$27,825	\$83,475	\$843
Roads	HCB	Bonnieview Road	Mitchell Rd to Harry Rd	151	6.5	Local	2	30	\$34,353	\$68,705	\$694
Roads	HCB	Cain Street	Circle St to Sheppard Ave	200	11	Collector	3	15	\$77,000	\$231,000	\$2,333
Roads	HCB	Bonnieview Road	Harry Rd to Olive Rd	254	6.5	Local	2	30	\$57,785	\$115,570	\$1,167
Roads	HCB	Cartier Street	Brunetville Rd to Brock Cr	278	7.5	Local	2	30	\$72,975	\$145,950	\$1,474
Roads	HCB	Bonnieview Road	Olive Rd to West Acces Rd	377	6.5	Local	2	30	\$85,768	\$171,535	\$1,733
Roads	НСВ	Bonnieview Road	West Access Rd to Ballantyne Rd	812	6.5	Local	2	30	\$184,730	\$369,460	\$3,732

Category	Segment	Asset Name	Location Details	Length (m)	Width (m)	Road Type	Visual Road Condition (1-5)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Roads	НСВ	Bonnieview Road	Ballantyne Rd to Government Rd	814	6.5	Local	2	30	\$185,185	\$370,370	\$3,741
Roads	НСВ	Cedar Street	Ash St to Cherry Ave	100	9.2	Local	2	30	\$32,200	\$64,400	\$651
Roads	HCB	Cedar Street	Cherry Ave to Balsam Ave	87	9.2	Local	2	30	\$28,014	\$56,028	\$566
Roads	НСВ	Cedar Street	Balsam Ave to East end of Cedar St	236	9.2	Local	2	30	\$75,992	\$151,984	\$1,535
Roads	HCB	Champlain Crescent	Murray St to Murray St	230	9.2	Local	2	30	\$74,060	\$148,120	\$1,496
Roads	HCB	Cherry Avenue	Cedar St to Brunetville Rd	243	12.1	Local	3	20	\$102,911	\$308,732	\$3,119
Roads	НСВ	Circle Street	McPherson Ave to McPherson Ave	181	22.1	Collector	2	25	\$140,004	\$420,011	\$4,243
Roads	HCB	Cite des Jeunes Boulevard	Brock Cr to Marquette St	173	9.3	Local	2	30	\$56,312	\$112,623	\$1,138
Roads	HCB	Cite des Jeunes Boulevard	Marquette St to Erickson Ave	151	9.3	Local	2	30	\$49,151	\$98,301	\$993
Roads	НСВ	Cite des Jeunes Boulevard	Erickson Ave to Brunelle Rd North	82	9.3	Local	2	30	\$26,691	\$53,382	\$539
Roads	HCB	Clark Street	Kimberly Dr to Seaborne Cr	94	8.4	Local	2	30	\$27,636	\$55,272	\$558
Roads	HCB	Clark Street	Seaborne Cr to Kent Pl	97	8.4	Local	2	30	\$28,518	\$57,036	\$576
Roads	HCB HCB	Clark Street	Kent PI to Kennedy Ave	154 98	8.4	Local	2	30 30	\$45,276	\$90,552	\$915 \$582
Roads Roads	HCB	Clark Street Cloutier Place	Kennedy Ave to Avenue Rd Thompson Rd to end	98	8.4 10	Local Local	2	20	\$28,812 \$24,850	\$57,624 \$74,550	\$582
Roads	HCB	Corona Avenue	King St to Aurora Ave	135	9	Local	5	0	\$42,525	\$127,575	\$1,289
Roads	НСВ	Bowman Avenue	Drury St to King St	176	11.3	Local	4	5	\$69.608	\$208.824	\$2,109
Roads	HCB	Bowman Avenue	King St to Victoria St	128	11.3	Local	4	5	\$50,624	\$151,872	\$1,534
Roads	HCB	Bowman Avenue	Victoria St to Devonshire Ave	119	11.3	Local	4	5	\$47,065	\$141,194	\$1,426
Roads	НСВ	Bowman Avenue	Devonshire Ave to Dominion Ave	112	11.3	Local	4	5	\$44,296	\$132,888	\$1,342
Roads	HCB	Bowman Avenue	Dominion Ave to Egerton Ave	118	11.3	Local	4	5	\$46,669	\$140,007	\$1,414
Roads	HCB	Byng Avenue	Sheppard St to Stewart Ave	82	12	Local	3	20	\$34,440	\$103,320	\$1,044
Roads	HCB	Byng Avenue	Stewart Ave to Mundy Ave	98	12	Local	3	20	\$41,160	\$123,480	\$1,247
Roads	HCB	Byng Avenue	Brunetville Rd to Sheppard St	224	12 10.4	Local	4	5	\$94,080	\$282,240	\$2,851
Roads Roads	HCB HCB	Byng Avenue Cain Street	Sheppard St to Brunetville Rd Riverside Dr to Circle St	200 153	10.4	Local Local	4 3	5 20	\$72,800 \$58,905	\$218,400 \$176,715	\$2,206 \$1,785
Roads	НСВ	Caron Street	Government Rd to North end of Caron St	66	10	Local	3	20	\$23,100	\$69,300	\$700
Roads	НСВ	Cedar Street	Mundy Ave to Birch St	188	13.3	Local	2	30	\$87,514	\$175,028	\$1,768
Roads	НСВ	Devonshire Street	Bowman Ave to Montgomery Ave	78	13.7	Local	4	5	\$37,401	\$112,203	\$1,133
Roads	НСВ	Devonshire Street	Montgomery Ave to Aurora Ave	80	13.7	Local	4	5	\$38,360	\$115,080	\$1,162
Roads	HCB	Devonshire Street	Aurora Ave to Anderson Ave	75	13.7	Local	4	5	\$35,963	\$107,888	\$1,090
Roads	HCB	Devonshire Street	Anderson Ave to Hall Ave	115	13.7	Local	4	5	\$55,143	\$165,428	\$1,671
Roads	HCB	Cedar Street	Birch St to Elm St	153	13.3	Local	2	30	\$71,222	\$142,443	\$1,439
Roads	HCB	Cedar Street	Elm St to Ash St	128	13.3	Local	2	30	\$59,584	\$119,168	\$1,204
Roads	HCB	Cournoyer Street	Radisson Cr to Willow St	210	8.6	Local	1	40	\$63,210	\$126,420	\$1,277
Roads	HCB	Cournoyer Street	Willow St to Brunelle Rd North	264	8.6	Local	1	40	\$79,464	\$158,928	\$1,605
Roads Roads	HCB HCB	Dallyn Avenue Dallyn Avenue	King St to Queen St Queen St to Sheppard St	253 226	12.2 12.2	Local Local	5 5	0	\$108,031 \$96,502	\$324,093 \$289,506	\$3,274 \$2,924
Roads	НСВ	De L'Etang Boulevard	Government Rd to Cournoyer St	92	9.8	Local	1	40	\$31,556	\$63,112	\$637
Roads	НСВ	Dominion Avenue	Bowman Ave to Montgomery Ave	145	10.8	Local	4	5	\$54,810	\$164,430	\$1,661
Roads	НСВ	Don Avenue	Brunetville Rd to North end of Don Ave	70	6	Local	3	20	\$14,700	\$44,100	\$445
Roads	HCB	Downs Avenue	Hill St to Thibeault St	313	8.8	Local	4	5	\$96,404	\$289,212	\$2,921
Roads	HCB	Downs Avenue	Bouldier St to Hill St	111	8.8	Local	4	5	\$34,188	\$102,564	\$1,036

Category	Segment	Asset Name	Location Details	Length (m)		Road Type	Visual Road Condition (1-5)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Roads	HCB	Drury Street	Dominion Ave to Bowman Ave	135	11.6	Local	2	30	\$54,810	\$109,620	\$1,107
Roads	HCB	Drury Street	Bowman Ave to Mundy Ave	126	11.6	Local	2	30	\$51,156	\$102,312	\$1,033
Roads	HCB	Drury Street	Mundy Ave to Riverside Dr	113	7.5	Local	2	30	\$29,663	\$59,325	\$599
Roads	HCB	De L'Etang Boulevard	Cournoyer St to North St	94	9.8	Local	1	40	\$32,242	\$64,484	\$651
Roads Roads	HCB HCB	De L'Etang Boulevard De L'Etang Boulevard	North St to Radisson Cr Radisson Cr to Willow St	31 260	9.8 9.8	Local Local	1	40 40	\$10,633 \$89,180	\$21,266 \$178,360	\$215
Roads	НСВ	De L'Etang Boulevard	Willow St to Montcalm Ave	98	9.8	Local	1	40	\$33.614	\$67,228	\$1,802 \$679
Roads	НСВ	Elm Street	Spruce St to Birch St	90 87	9.0	Local	3	20	\$38,063	\$114,188	\$1,153
Roads	HCB	Elm Street	Birch St to Cedar St	179	12.5	Local	3	20	\$78,313	\$234,938	\$2,373
Roads	НСВ	Empire Avenue	King St to King St	250	12.6	Local	3	20	\$110,250	\$330,750	\$3,341
			Cite des Jeunes Blvd to				-			,	
Roads	HCB	Erickson Avenue	Marquette St	230	7.4	Local	3	20	\$59,570	\$178,710	\$1,805
Roads	HCB	Erickson Avenue	Marquette St to Brunetville Rd	64	7.4	Local	3	20	\$16,576	\$49,728	\$502
Roads	HCB	Erie Street	Ash St to St.Lawrence St	150	9.2	Local	3	20	\$48,300	\$144,900	\$1,464
Roads	НСВ	Etienne Street	Richmond Ave to East end of Etienne St	69	10	Local	2	30	\$24,150	\$48,300	\$488
Roads	HCB	Flower Drive	Harry Rd to Olive Rd	250	6	Local	2	30	\$52,500	\$105,000	\$1,061
Roads	НСВ	Flower Drive	Olive Rd to North end of Flower Dr	241	6	Local	2	30	\$50,610	\$101,220	\$1,022
Roads	НСВ	De L'Etang Boulevard	Montcalm Ave to Brunelle Rd North	111	9.8	Local	1	40	\$38,073	\$76,146	\$769
Roads	HCB	Devonshire Street	Riverside Dr to Dominion Ave	172	13.7	Local	4	5	\$82,474	\$247,422	\$2,499
Roads	HCB	Golf Street	Government Rd to North St	163	7.7	Local	2	30	\$43,929	\$87,857	\$887
Roads	HCB	Golf Street	North St to North end of Golf St	318	7.7	Local	2	30	\$85,701	\$171,402	\$1,731
Roads	HCB	Devonshire Street	Dominion Ave to Bowman Ave	257	13.7	Local	4	5	\$123,232	\$369,695	\$3,734
Roads	HCB HCB	Devonshire Street	Hall Ave to Aurora Ave	191 33	13.7 13.7	Local Local	4	5	\$91,585 \$15.824	\$274,754 \$47,471	\$2,775 \$480
Roads Roads	НСВ	Devonshire Street Dominion Avenue	Aurora Ave to Murdock St Riverside Dr to Drury St	152	11.4	Local	4	5	\$60,648	\$181,944	\$1,838
Roads	HCB	Dominion Avenue	Drury St to King St	90	11.4	Local	4	5	\$35,910	\$107,730	\$1,088
Roads	НСВ	Dominion Avenue	King St to Victoria St	95	11.4	Local	4	5	\$37,905	\$113,715	\$1,149
Roads	НСВ	Dominion Avenue	Victoria St to Devonshire Ave	107	11.4	Local	4	5	\$42,693	\$128,079	\$1,294
Roads	НСВ	Dominion Avenue	Devonshire Ave to Bowman Ave	351	10.8	Local	4	5	\$132,678	\$398,034	\$4,021
Roads	НСВ	Egerton Avenue	Bowman Ave to Park Cr	101	11.5	Local	2	30	\$40,653	\$81,305	\$821
Roads	HCB	Egerton Avenue	Park Cr to Montgomery Ave	116	11.5	Local	2	30	\$46,690	\$93,380	\$943
Roads	НСВ	Egerton Avenue	Montgomery Ave to Anderson Ave	144	11.5	Local	2	30	\$57,960	\$115,920	\$1,171
Roads	HCB	Egerton Avenue	Anderson Ave to Hall Ave	181	11.5	Local	2	30	\$72,853	\$145,705	\$1,472
Roads	HCB	Frontenac Crescent	Wolfe St to Cabot St	539	7.3	Local	4	5	\$137,715	\$413,144	\$4,173
Roads	НСВ	Frontenac Crescent	Cabot St to North end of Frontenac Cr	41	7.3	Local	4	5	\$10,476	\$31,427	\$317
Roads	НСВ	Gurney Road	Government Rd to 84 Gurney Rd	930	6.5	Collector	4	5	\$211,575	\$846,300	\$8,548
Roads	HCB	Hall Avenue	Aurora Ave to Devonshire St	112	9.1	Local	4	5	\$35,672	\$107,016	\$1,081
Roads	HCB	Hall Avenue	Devonshire St to Murdock St	103	9.1	Local	4	5	\$32,806	\$98,417	\$994
Roads	HCB	Hall Avenue	Murdock St to Egerton Ave	83	10.9	Local	3	20	\$31,665	\$94,994	\$960
Roads	HCB	Hazel Street	Richmond Ave to Borden Ave	167	6.9	Local	3	20	\$40,331	\$120,992	\$1,222
Roads	HCB	Hazel Street	Borden Ave to Thompson Rd	78	8.8	Local	3	20	\$24,024	\$72,072	\$728
Roads	НСВ	Hazel Street	Thompson Rd to Mackenzie Ave	264	8.8	Local	3	20	\$81,312	\$243,936	\$2,464
Roads	НСВ	Hazel Street	Mackenzie Ave to East end of Hazel St	86	8.8	Local	3	20	\$26,488	\$79,464	\$803
Roads	HCB	Hemlock Street	Spruce St to Birch St	87	12.5	Local	2	30	\$38,063	\$76,125	\$769

Category	Segment	Asset Name	Location Details	Length (m)		Road Type	Visual Road Condition (1-5)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Roads	HCB	Hemlock Street	Pine St to Poplar Cr	81	12.5	Local	2	30	\$35,438	\$70,875	\$716
Roads	НСВ	Hemlock Street	Poplar Cr to North end of Hemlock St	41	12.5	Local	2	30	\$17,938	\$35,875	\$362
Roads	НСВ	Henderson Avenue	West end of Henderson Ave to O'Brien Ave	77	7.5	Local	2	30	\$20,213	\$40,425	\$408
Roads	HCB	Henderson Avenue	O'Brien Ave to Riverside Dr	144	7.5	Local	2	30	\$37,800	\$75,600	\$764
Roads	HCB	Henderson Avenue	Riverside Dr to Kolb Ave	86	7.5	Local	2	30	\$22,575	\$45,150	\$456
Roads	HCB	Hill Street	Mill St to Downs Ave	111	7.5	Local	3	20	\$29,138	\$87,413	\$883
Roads	HCB	Hill Street	Downs Ave to Downs Ave	28	7.5	Local	3	20	\$7,350	\$22,050	\$223
Roads	НСВ	Hill Street	Downs Ave to South end of Hill St	200	7.5	Local	3	20	\$52,500	\$157,500	\$1,591
Roads	HCB	Hudson Place	Brunetville Rd to end	56	7.9	Local	4	5	\$15,484	\$46,452	\$469
Roads	НСВ	Huron Street	North end of Huron St to St.Lawrence Ave	220	9.1	Local	3	20	\$70,070	\$210,210	\$2,123
Roads	HCB	Kennedy Avenue	Kimberly Dr to Seaborne Cr	87	8.8	Local	4	5	\$26,796	\$80,388	\$812
Roads	HCB	Kennedy Avenue	Seaborne Cr to Sussex St	189	8.8	Local	4	5	\$58,212	\$174,636	\$1,764
Roads	HCB	Kennedy Avenue	Sussex St to Clark St	87	8.8	Local	4	5	\$26,796	\$80,388	\$812
Roads	HCB	Kent Place	Clark St to end	47	11.4	Local	2	30	\$18,753	\$37,506	\$379
Roads	HCB	Kimberly Drive	Clark St to Mateev Ave	94	9.7	Local	4	5	\$31,913	\$95,739	\$967
Roads	НСВ	Kimberly Drive	Mateev Ave to North end of Kimberly Dr	251	9.7	Local	4	5	\$85,215	\$255,644	\$2,582
Roads	HCB	Kimberly Drive	Avenue Rd to Kennedy Ave	90	8.7	Local	2	30	\$27,405	\$54,810	\$554
Roads	HCB	Kimberly Drive	Kennedy Ave to Clark St	567	8.7	Local	2	30	\$172,652	\$345,303	\$3,488
Roads	HCB	King Street	Riverside Dr to Dominion Ave	114	12.2	Local	4	5	\$48,678	\$146,034	\$1,475
Roads	HCB	King Street	Dominion Ave to Bowman Ave	226	12.2	Local	4	5	\$96,502	\$289,506	\$2,924
Roads	HCB	King Street	Bowman Ave to Corona Ave	48	12.2	Local	4	5	\$20,496	\$61,488	\$621
Roads	HCB	King Street	Corona Ave to Empire Ave	97	12.2	Local	4	5	\$41,419	\$124,257	\$1,255
Roads	HCB	King Street	Empire Ave to Summers Ave	97	12.2	Local	4	5	\$41,419	\$124,257	\$1,255
Roads	HCB	King Street	Summers Ave to Mundy Ave	44 91	12.2 12.2	Local	4	5	\$18,788	\$56,364	\$569
Roads Roads	HCB HCB	King Street King Street	Mundy Ave to Stewart Ave Stewart Ave to Dallyn Ave	104	12.2	Local Local	4	5	\$38,857 \$44,408	\$116,571 \$133,224	\$1,177 \$1,346
Roads	НСВ	King Street	Dallyn Ave to Riverside Dr	30	12.2	Local	4	5	\$12,810	\$38,430	\$388
Roads	HCB	Kolb Avenue	McPherson Ave to Riverside Dr	191	12.2	Local	4	5	\$81,557	\$244,671	\$2,471
Roads	HCB	Kolb Avenue	Riverside Dr to Henderson Ave	268	12.2	Local	4	5	\$114,436	\$343,308	\$3,468
Roads	НСВ	Lang Avenue	McPherson Ave to O'Brien Ave	192	12.1	Local	3	20	\$81,312	\$243,936	\$2,464
Roads	HCB	Lang Avenue	O'Brien Ave to Riverside Dr	64	12.1	Local	3	20	\$27,104	\$81,312	\$821
Roads	HCB	Lasalle Avenue	Vanier St to St.Patrick St	64	7.2	Local	1	40	\$16,128	\$32,256	\$326
Roads	HCB	Lasalle Avenue	St.Patrick St to Algonquin St	131	7.2	Local	1	40	\$33,012	\$66,024	\$667
Roads	HCB	Lasalle Avenue	Algonquin St to Government Rd	77	7.2	Local	1	40	\$19,404	\$38,808	\$392
Roads	НСВ	Laurier Crescent	Brown Crescent to Richmond Ave	277	7.3	Local	2	30	\$70,774	\$141,547	\$1,430
Roads	HCB	Laval Street	Lemarier St to Albert St	86	6.7	Local	2	30	\$20,167	\$40,334	\$407
Roads	HCB	Lemarier Street	Brunelle Rd South to Albert St	290	8	Local	2	30	\$81,200	\$162,400	\$1,640
Roads	HCB	Lemarier Street	Albert St to Laval St	275	8	Local	2	30	\$77,000	\$154,000	\$1,556
Roads	HCB	Macdonald Street	Brunelle Rd North to Brown Cr	93	7.4	Local	3	20	\$24,087	\$72,261	\$730
Roads	HCB	Mackenzie Avenue	Trudeau Ave to Hazel St	158	7	Local	2	30	\$38,710	\$77,420	\$782
Roads	HCB	Maple Drive	Ash St to Ash St Cite des Jeunes Blvd to Erickson	328	12	Local	2	30	\$137,760	\$275,520	\$2,783
Roads Roads	НСВ НСВ	Marquette Street Mateev Avenue	Ave Kimberly Dr to Avenue Rd	382 474	7.4 9.2	Local	2	30 30	\$98,938 \$152,628	\$197,876 \$305,256	\$1,999 \$3,083
Roads	HCB	McPherson Avenue	Riverside Dr to Circle St	474	9.2	Collector	4	<u> </u>	\$152,628	\$305,256	\$3,083
Roads	НСВ	McPherson Avenue	Kolb Ave to Riverside Dr	124	13.1	Collector	4	5	\$49,518	\$198,072	\$2,001
Roads	HCB	McPherson Avenue	Lang Ave to Kolb Ave	89	13.1	Collector	4	5	\$40,807	\$163,226	\$1,649

Category	Segment	Asset Name	Location Details	Length (m)		Road Type	Visual Road Condition (1-5)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Roads	HCB	McPherson Avenue	Government Rd to Lang	178	13.1	Collector	4	5	\$81,613	\$326,452	\$3,297
Roads	HCB	McPherson Avenue	Millview Rd to Government Rd	39	13.1	Collector	4	5	\$17,882	\$71,526	\$722
Roads	НСВ	Migneault Avenue	Thibeault St to East end of Migneault St	292	9.1	Local	2	30	\$93,002	\$186,004	\$1,879
Roads	HCB	Mill Street	Thibeault St to Government Rd	162	7.5	Local	2	30	\$42,525	\$85,050	\$859
Roads	НСВ	Mill Street	Brunelle Rd South to Bouldier St	127	7.5	Local	2	30	\$33,338	\$66,675	\$673
Roads	HCB	Mill Street	Bouldier St to Hill St	111	7.5	Local	2	30	\$29,138	\$58,275	\$589
Roads	HCB	Mill Street	Hill St to Thibeault St	313	7.5	Local	2	30	\$82,163	\$164,325	\$1,660
Roads	HCB	Millview Street	McPherson Ave to O'Brien Ave	200	13	Local	2	30	\$91,000	\$182,000	\$1,838
Roads	НСВ	Mitchell Road	Owens Rd South to Bonnieview Rd	1795	6	Local	3	20	\$376,950	\$1,130,850	\$11,423
Roads	нсв	Montcalm Avenue	De L'Etang Blvd to North end of Montcalm Ave	163	7.1	Local	2	30	\$40,506	\$81,011	\$818
Roads	HCB	Montgomery Avenue	Devonshire St to Dominion Ave	111	11.5	Local	2	30	\$44,678	\$89,355	\$903
Roads	HCB	Montgomery Avenue	Dominion Ave to Egerton Ave	119	11.5	Local	2	30	\$47,898	\$95,795	\$968
Roads	HCB	Montgomery Avenue	Egerton Ave to Park Cr	176	11.5	Local	2	30	\$70,840	\$141,680	\$1,431
Roads	HCB	Mundy Avenue	King St to Queen St	210	11.2	Local	3	20	\$82,320	\$246,960	\$2,495
Roads	HCB	Mundy Avenue	Byng Ave to Pine St	228	11.2	Local	3	20	\$89,376	\$268,128	\$2,708
Roads	HCB	Mundy Avenue	Bowman Ave to Drury St	156	7.4	Local	3	20	\$40,404	\$121,212	\$1,224
Roads	HCB HCB	Mundy Avenue Mundy Avenue	Drury St to King St Pine St to Cedar St	173 87	7.4	Local Local	3	20 20	\$44,807 \$34,104	\$134,421 \$102,312	\$1,358 \$1,033
Roads Roads	НСВ	Mundy Avenue	Queen St to Byng St	223	11.2	Local	3	20	\$34,104	\$262.248	\$1,033
Roads	HCB	Murdock Street	Hall Ave to Avenue Rd	223	10.7	Local	2	30	\$76,398	\$152,796	\$1,543
Roads	НСВ	Murdock Street	Anderson Ave to Hall Ave	150	12.8	Local	2	30	\$67,200	\$134,400	\$1,358
Roads	HCB	Murdock Street	Avenue Rd to Queen St	88	10	Local	2	30	\$30,800	\$61,600	\$622
Roads	HCB	Murray Street	Radisson Cr to Champlain Cr	78	9	Local	2	30	\$24,570	\$49,140	\$496
Roads	HCB	Murray Street	Champlain Cr to Champlain Cr	212	9	Local	2	30	\$66,780	\$133,560	\$1,349
Roads	HCB	Murray Street	Champlain Cr to Radisson Cr	88	9	Local	2	30	\$27,720	\$55,440	\$560
Roads	НСВ	Nelson Avenue	Brunetville Rd to North end of Nelson Ave	161	6	Local	4	5	\$33,810	\$101,430	\$1,025
Roads	HCB	Niagara Street	St.Clair Ave to St.Lawrence St	226	12.1	Local	4	5	\$95,711	\$287,133	\$2,900
Roads	HCB	Nipigon Avenue	Ottawa St to Albany St	87	9.4	Local	1	40	\$28,623	\$57,246	\$578
Roads	HCB	Nipigon Avenue	Albany St to Winnipeg St	87	9.4	Local	1	40	\$28,623	\$57,246	\$578
Roads	HCB	Nipigon Avenue	Winnipeg St to Ash St	70	9.4	Local	1	40	\$23,030	\$46,060	\$465
Roads	HCB	North Street	Golf St to De L'Etang Blvd	78	7.7	Local	2	30	\$21,021	\$42,042	\$425
Roads	HCB HCB	Oak Street	Birch St to Birch St	153 39	10.4 13.1	Local	3	20 20	\$55,692	\$167,076	\$1,688 \$542
Roads Roads	НСВ	O'Brien Avenue O'Brien Avenue	Millview Rd to Government Rd Government Rd to Henderson	89	13.1	Local Local	3	20	\$17,882 \$40,807	\$53,645 \$122,420	\$1,237
Roads	НСВ	O'Brien Avenue	Ave Henderson Ave to Lang Ave	88	13.1	Local	3	20	\$40,348	\$121,044	\$1,223
Roads	HCB	Olive Road	Bonnieview Rd to Flower Dr	206	6	Local	2	30	\$43,260	\$86,520	\$874
Roads	HCB	Ontario Street	Brunetville Rd to Brock Cr	278	9	Local	4	5	\$87,570	\$262,710	\$2,654
Roads	НСВ	Ontario Street	Brock Cr to South end of Ontario St	52	9	Local	4	5	\$16,380	\$49,140	\$496
Roads	HCB	Ottawa Street	Hemlock St to Nipigon Ave	269	8.9	Local	1	40	\$83,794	\$167,587	\$1,693
Roads	HCB	Ottawa Street	Nipigon Ave to Albany St	300	9.2	Local	1	40	\$96,600	\$193,200	\$1,952
Roads	НСВ	Ottawa Street	Albany St to Winnipeg St	87	9.2	Local	1	40	\$28,014	\$56,028	\$566
Roads	НСВ	Park Crescent	Egerton Ave to Montgomery Ave	302	12.2	Local	2	30	\$128,954	\$257,908	\$2,605
Roads	HCB	Pine Street	Mundy Ave to Poplar Cr	306	12.3	Local	3	20	\$131,733	\$395,199	\$3,992
Roads	HCB	Pine Street	Poplar Cr to Hemlock St	151	12.3	Local	3	20	\$65,006	\$195,017	\$1,970
Roads	HCB	Poplar Crescent	Pine St to Hemlock St	232	12.3	Local	4	5	\$99,876	\$299,628	\$3,027

Category	Segment	Asset Name	Location Details	Length (m)	Width (m)	Road Type	Visual Road Condition (1-5)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Roads	НСВ	Poplar Crescent	Hemlock St to East end of Poplar Cr	47	12.3	Local	4	5	\$20,234	\$60,701	\$613
Roads	НСВ	Progress Crescent	Avenue Rd to North end of Progress	292	10.7	Local	3	20	\$109,354	\$328,062	\$3,314
Roads	HCB	Queen Street	Mundy Ave to Stewart Ave	93	14.5	Local	5	0	\$47,198	\$141,593	\$1,430
Roads	HCB	Queen Street	Stewart Ave to Dallyn Ave	93	14.5	Local	5	0	\$47,198	\$141,593	\$1,430
Roads	HCB	Queen Street	Dallyn Ave to Circle St	64	14.5	Local	5	0	\$32,480	\$97,440	\$984
Roads	HCB	Queen Street	Circle St to Byng Ave	84	14.5	Local	3	20	\$42,630	\$127,890	\$1,292
Roads	HCB	Queen Street	Byng Ave to East end of Queen	154	14.5	Local	3	20	\$78,155	\$234,465	\$2,368
Roads	HCB	Queen Street	Murdock St to Mundy Ave	112	14.5	Local	2	30	\$56,840	\$113,680	\$1,148
Roads	HCB	Radisson Crescent	De L'Etang Blvd to Murray St	96	9.5	Local	3	20	\$31,920	\$95,760	\$967
Roads	HCB	Radisson Crescent	Murray St to Murray St	545	9.2	Local	3	20	\$175,490	\$526,470	\$5,318
Roads	HCB	Richmond Avenue	Laurier Cr to St.Patrick St	98	7.3	Local	2	30	\$25,039	\$50,078	\$506
Roads	HCB	Richmond Avenue	St.Patrick St to Hazel St	93	7.3	Local	2	30	\$23,762	\$47,523	\$480
Roads	HCB	Richmond Avenue	Hazel St to Algonquin St	43	7.3	Local	2	30	\$10,987	\$21,973	\$222
Roads	HCB	Richmond Avenue	Algonquin St to Government Rd	97	7.3	Local	2	30	\$24,784	\$49,567	\$501
Roads	нсв	Richmond Avenue	North end of Richmond Ave to Etienne St	95	7.3	Local	2	30	\$24,273	\$48,545	\$490
Roads	HCB	Richmond Avenue	Etienne St to Laurier Cr	53	7.3	Local	2	30	\$13,542	\$27,083	\$274
Roads	НСВ	Riverside Drive	Government Rd to Henderson Ave	126	11.6	Local	3	20	\$51,156	\$153,468	\$1,550
Roads	HCB	Riverside Drive	Henderson Ave to Lang Ave	131	11.6	Local	3	20	\$53,186	\$159,558	\$1,612
Roads	HCB	Riverside Drive	Lang Ave to Kolb Ave	71	11.6	Local	3	20	\$28,826	\$86,478	\$874
Roads	HCB	Riverside Drive	Kolb Ave to Byng Ave	126	11.6	Local	3	20	\$51,156	\$153,468	\$1,550
Roads	HCB	Riverside Drive	McPherson Ave to Cain Ave	131	12	Local	3	20	\$55,020	\$165,060	\$1,667
Roads	HCB	Riverside Drive	Cain Ave to King St	116	12	Local	3	20	\$48,720	\$146,160	\$1,476
Roads	HCB	Riverside Drive	King St to Drury St	71	12	Local	3	20	\$29,820	\$89,460	\$904
Roads	HCB	Riverside Drive	Drury St to Bowman Ave	239	12	Local	3	20	\$100,380	\$301,140	\$3,042
Roads	HCB	Riverside Drive	Bowman Ave to Dominion Ave	63	12	Local	3	20	\$26,460	\$79,380	\$802
Roads	HCB	Riverside Drive	Byng Ave to McPherson Ave	91	11.6	Local	3	20	\$36,946	\$110,838	\$1,120
Roads	HCB	Riverside Drive	Dominion Ave to King St	241	12	Local	3	20	\$101,220	\$303,660	\$3,067
Roads	HCB	Riverside Drive	King St to Devonshire St	106	12	Local	3	20	\$44,520	\$133,560	\$1,349
Roads	HCB	Seaborne Crescent	Kennedy Ave to Clark St	430	8	Local	3	20	\$120,400	\$361,200	\$3,648
Roads	HCB	Sheppard Avenue	Brunetville Rd to Cain Ave	32	14.1	Collector	3	15	\$15,792	\$47,376	\$479
Roads	HCB	Sheppard Avenue	Cain Ave to Byng Ave	112	14.1	Local	3	20	\$55,272	\$165,816	\$1,675
Roads	HCB	Spruce Street	Elm St to Ash St	264	8	Local	4	5	\$73,920	\$221,760	\$2,240
Roads	HCB	Spruce Street	Mundy Ave to Hemlock St	283	11.8	Local	3	20	\$116,879	\$350,637	\$3,542
Roads	HCB	Spruce Street	Hemlock St to Elm St	76	11.8	Local	3	20	\$31,388	\$94,164	\$951
Roads	НСВ	St.Clair Avenue	East end of St. Clair Ave to Niagara St	51	9.2	Local	3	20	\$16,422	\$49,266	\$498
Roads	HCB	St.Clair Avenue	Niagara St to West end of St.Clair Ave	120	9.2	Local	3	20	\$38,640	\$115,920	\$1,171
Roads	HCB	St.Lawrence Avenue	Ash St to Erie St	122	8.8	Local	2	30	\$37,576	\$75,152	\$759
Roads	HCB	St.Lawrence Avenue	Erie St to Superior St	85	8.8	Local	2	30	\$26,180	\$52,360	\$529
Roads	HCB	St.Lawrence Avenue	Superior St to Huron St	80	9.9	Local	2	30	\$27,720	\$55,440	\$560
Roads	HCB	St.Lawrence Avenue	Huron St to Niagara St	87	9.9	Local	2	30	\$30,146	\$60,291	\$609
Roads	HCB	St.Patrick Street	Lasalle Ave to Richmond Ave	253	7.1	Local	1	40	\$62,871	\$125,741	\$1,270
Roads	HCB	Stewart Avenue	King St to Queen St	211	9.4	Local	4	5	\$69,419	\$208,257	\$2,104
Roads	HCB	Stewart Avenue	Queen St to Byng St	198	9.4	Local	4	5	\$65,142	\$195,426	\$1,974
Roads	HCB	Summers Avenue	King St to Aurora Ave	136	9.8	Local	3	20	\$46,648	\$139,944	\$1,414
Roads	HCB	Superior Street	Ash St to St.Lawrence St	245	9.1	Local	3	20	\$78,033	\$234,098	\$2,365
Roads	HCB	Sussex Street	Kennedy Ave to end	127	8.7	Local	2	30	\$38,672	\$77,343	\$781
Roads	HCB	Thibeault Street	Mill St to Downs Ave	110	9.2	Local	2	30	\$35,420	\$70,840	\$716

Category	Segment	Asset Name	Location Details	Length (m)	Width (m)	Road Type	Visual Road Condition (1-5)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Roads	HCB	Thibeault Street	Downs Ave to Migneault St	59	9.2	Local	2	30	\$18,998	\$37,996	\$384
Roads	НСВ	Thibeault Street	Migneault St to South end of Thibeault St	98	9.2	Local	2	30	\$31,556	\$63,112	\$637
Roads	HCB	Thompson Road	Hazel St to Cloutier PI	87	10	Local	4	5	\$30,450	\$91,350	\$923
Roads	HCB	Thompson Road	Cloutier PI to Trudeau Ave	141	10	Local	4	5	\$49,350	\$148,050	\$1,495
Roads	НСВ	Tremblay Street	Brunelle Rd South to Bouldier St	127	7.4	Local	4	5	\$32,893	\$98,679	\$997
Roads	НСВ	Trudeau Avenue	Thompson Rd to Mackenzie Ave	263	7	Local	2	30	\$64,435	\$128,870	\$1,302
Roads	НСВ	Vanier Street	Brunelle Rd North to Lasalle Ave	146	7.3	Local	2	30	\$37,303	\$74,606	\$754
Roads	HCB	Victoria Avenue	Dominion Ave to Bowman Ave	249	12.7	Local	2	30	\$110,681	\$221,361	\$2,236
Roads	НСВ	Willow Street	Cournoyer St to De L'Etang Blvd	142	7.5	Local	2	30	\$37,275	\$74,550	\$753
Roads	НСВ		North end of Winnipeg St to Ottawa St	102	9.1	Local	1	40	\$32,487	\$64,974	\$656
Roads	НСВ	Winnipeg Street	Ottawa St to Nipigon Ave	244	9.1	Local	1	40	\$77,714	\$155,428	\$1,570
Roads	HCB	Wolfe Street	Brunetville Rd to Frontenac Cr	53	7.2	Local	2	30	\$13,356	\$26,712	\$270
Roads	HCB	Wolfe Street	Frontenac Cr to Cabot St	434	7.2	Local	2	30	\$109,368	\$218,736	\$2,209
Roads	НСВ	Wolfe Street	Cabot St to North end of Wolfe St	40	7.2	Local	2	30	\$10,080	\$20,160	\$204

Appendix H: Bridges and Culverts Asset Inventory

Category	Segment	Asset Name	Details	In-Service Date	Length (m)	Asset Age (as of 2021)	Estimated Remaining Service Life (Years)	Total Single Event Replacement Cost	Total Replacement Cost (2021-2120)	Average Annual Replacement Cost
Bridge	Culvert	Avenue Road Culvert	Steel Arch Pipe MultiPlate Culvert	2008	50	13	20	\$1,000,000	\$1,000,000	\$10,101
Bridge	Culvert	Brunetville Road Culvert	Twin Concrete Box Culverts (2 -3mx3m)	2004	18	17	63	\$1,000,000	\$1,000,000	\$10,101
Bridge	Culvert	Clear Lake Road North Culvert	Round CSP Culvert	1975	21	46	5	\$200,000	\$400,000	\$4,040
Bridge	Culvert	Gough Road Culvert	Steel Arch Pipe MultiPlate Culvert	1982	23	39	25	\$200,000	\$400,000	\$4,040
Bridge	Culvert	Government Road East Culvert	Corrugated Steel Pipe Culvert	2016	39	5	50	\$1,000,000	\$1,000,000	\$10,101
Bridge	Bridge	HWY 11 East Bridge	Steel Girder / Concrete Deck	2021	41	0	20	\$2,500,000	\$10,000,000	\$101,010
Bridge	Bridge	HWY 11 West Bridge	Steel Girder / Concrete Deck	2021	93	0	20	\$2,500,000	\$10,000,000	\$101,010
Bridge	Culvert	Mundy Street Culvert	Concrete Box & Arch MultiPlate	2010	32	11	20	\$1,000,000	\$1,000,000	\$10,101
Bridge	Culvert	Owens Road North Culvert	Corrugated Steel Pipe Culvert	2016	43	5	20	\$200,000	\$400,000	\$4,040
Bridge	Culvert	Stevens Road Culvert	Steel Arch MultiPlate Culvert	1982	18	39	25	\$200,000	\$400,000	\$4,040

Appendix I: Road Condition Photo Guide

Visual Condition Rating	PCI Rating	Photo Example
1 - Excellent	80 - 100	
2 - Good	60 – 79	
3 - Fair	40 – 59	
4 - Poor	20 – 39	
5 - Very Poor	0 – 19	