



## **Water and Wastewater Rate Study**

City of Stratford

### **Table of Contents**

			Page
Exec	utive Summ	nary	i
1.	1.1 Bac 1.2 Stud 1.3 Reg 1.4 Sus 1.5 Fina 1.6 Wat 1.7 Infra	kground	1-11-21-31-51-7
2.		rastructure Needsital Forecast	
3.	3.1 Ove 3.1. 3.1. 3.1.	Financing Costs	3-1 3-1 3-1
4.	<ul> <li>4.1 Sum</li> <li>4.2 Dev</li> <li>4.3 Mun</li> <li>4.4 Histo</li> <li>4.5 Exis</li> <li>4.6 Deb</li> <li>4.7 Infra</li> </ul>	est Financing Options  Immary of Capital Cost Financing Alternatives  elopment Charges Act, 1997  icipal Act  orical Grant Funding Availability  sting Reserves/Reserve Funds  enture Financing.  astructure Ontario  ommended Capital Financing Approach	4-14-34-54-74-7



## Table of Contents (Cont'd)

			Page
5.	Overv 5.1 5.2 5.3 5.4	Water Operating Expenditures Water Operating Revenues Wastewater Operating Expenditures Wastewater Operating Expenditures Wastewater Operating Revenues	5-1 5-1 5-3
6.	Pricin 6.1 6.2 6.3 6.4 6.5	Introduction  Alternative Pricing Structures  Assessment of Alternative Pricing Structures  Rate Structures in Ontario  Recommended Rate Structures	6-1 6-2 6-4 6-9
7.	<b>Analy</b> 7.1 7.2 7.3	Introduction	7-1 7-1
8.	Reco	mmendations	8-1
Арр	endix A	Water System Inventory Data	A-1
Арр	endix B	Wastewater System Inventory	B-1
Арр	endix C	Detailed Water Rate Calculations	C-1
Арр	endix D	Detailed Wastewater Rate Calculations	D-1



#### **List of Acronyms and Abbreviations**

Acronym Full Description of Acronym

A.M.O. Association of Municipalities of Ontario

C.W.W.F. Clean Water and Wastewater Fund

D.C.A. Development Charges Act, 1997

F.I.R. Financial Information Return

I.J.P.A. Infrastructure for Jobs and Prosperity Act, 2015

I.O. Infrastructure Ontario

LPAT Local Planning Appeal Tribunal

M.O.E. Ministry of Environment

O.C.I.F. Ontario Community Infrastructure Fund

O.M.B. Ontario Municipal Board

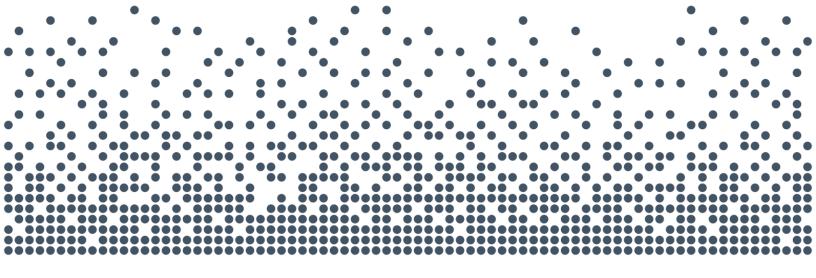
O. Reg. Ontario Regulation

O.S.I.F.A. Ontario Strategic Infrastructure Financing Authority

P.S.A.B. Public Sector Accounting Board

P.T.I.F. Public Transit Infrastructure Fund

S.W.S.S.A. Sustainable Water and Sewage Systems Act, 2002



# **Executive Summary**



#### **Executive Summary**

The City of Stratford retained Watson & Associates Economists Ltd. (Watson) to undertake a water and wastewater rate study. This study aims to update the analysis for current capital and operating forecasts, costing for lifecycle cost requirements, current volumes and customer profiles. The results of this analysis provide updated water and wastewater base charges and volume rates for customers within the City. The rate analysis contained herein continues to provide fiscally responsible practices that are in line with current provincial legislation at a level of rate increases that are reasonable.

The analysis presented herein provides the following:

- The system's 2020 to 2029 capital spending program for water and wastewater is \$19,178,000 and \$20,702,000 (inflated), respectively;
- Annual operating expenditures are assumed to increase by 2% per annum for most expenditures; expenditures related to utilities, fuels, chemicals and other materials have been increased at 5% per annum;
- The present rate structure (base monthly charge and a 2-step decreasing block volume rate) is continued;
- Over the forecast period, increase the relationship of the water base charges operating revenue as a percentage of operating expenditures to 25% by 2023. This is to ensure that the City can generate a fixed portion of the operating expenditures as revenue;
- Over the forecast period, increase the relationship of the wastewater base charges operating revenue as a percentage of operating expenditures to 25% by 2023. This is to ensure that the City can generate a fixed portion of the operating expenditures as revenue;
- Existing water and wastewater customers total 12,500; and
- New water and wastewater customers are forecasted to increase by 85 customers annually from 2020 to 2025 and 51 customers annually from 2026 to 2029.

Based on the above information, rate increases for the Stratford water system has been calculated with an initial 4% increase to the water bill in 2020, 6% annual increases from 2021 to 2023, and subsequent increases of 4% annually from 2024 to 2029. Similarly,



for wastewater a 3% increase to the wastewater bill in 2020 has been calculated, while the subsequent years of 2021 to 2029 is calculated to increase by an average of 4% annually.

Table ES-1 summarizes the recommended water rates and average annual bill (assuming an annual volume of 140 m<sup>3</sup>) for customers based on the analysis provided herein over the forecast period.

Table ES-2 summarizes the recommended wastewater rates and average annual bill (assuming an annual volume of 140 m<sup>3</sup>) based on the analysis provided herein over the forecast period.

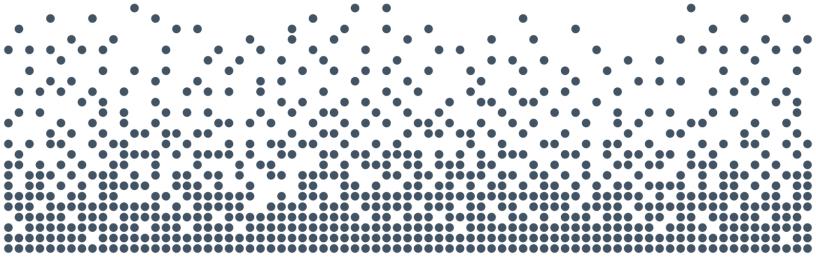


Table ES-1
Summary of the Stratford Water Bill – Based on 140 m³ of usage and a ¾" or ¾" meter

Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Monthly Base Rate	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$9.50	\$10.00	\$10.50	\$11.00	\$11.50	\$12.00
Block 1 Rate (first 3m <sup>3</sup> per month)	\$2.50	\$2.50	\$2.60	\$2.70	\$2.81	\$2.92	\$3.04	\$3.16	\$3.29	\$3.42	\$3.56
Block 2 Rate (over 3m <sup>3</sup> per month)	\$1.02	\$1.02	\$1.06	\$1.10	\$1.15	\$1.19	\$1.24	\$1.29	\$1.34	\$1.40	\$1.45
Annual Base Rate Bill	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$114.00	\$120.00	\$126.00	\$132.00	\$138.00	\$144.00
Block 1 Volume (first 3m³ per month)	36	36	36	36	36	36	36	36	36	36	36
Block 2 Volume (over 3m <sup>3</sup> per month)	104	104	104	104	104	104	104	104	104	104	104
Annual Volume Bill	\$196.08	\$196.08	\$203.92	\$212.08	\$220.56	\$229.39	\$238.56	\$248.10	\$258.03	\$268.35	\$279.08
Total Annual Bill	\$268.08	\$280.08	\$296.92	\$314.08	\$331.56	\$343.39	\$358.56	\$374.10	\$390.03	\$406.35	\$423.08
%Increase - Base Rate		17%	11%	10%	9%	3%	5%	5%	5%	5%	4%
%Increase - Volume Rate		0%	4%	4%	4%	4%	4%	4%	4%	4%	4%
% Increase - Total Annual Bill		4%	6%	6%	6%	4%	4%	4%	4%	4%	4%

Table ES-2
Summary of the Stratford Wastewater Bill – Based on 140 m³ of usage and a 5%" or 34" meter

Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Monthly Base Rate	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$10.25	\$11.25	\$12.50	\$13.75	\$15.25	\$16.75
Block 1 Rate (first 3m <sup>3</sup> per month)	\$4.14	\$4.14	\$4.22	\$4.30	\$4.39	\$4.48	\$4.57	\$4.66	\$4.75	\$4.85	\$4.95
Block 2 Rate (over 3m³ per month)	\$1.69	\$1.69	\$1.72	\$1.75	\$1.79	\$1.83	\$1.87	\$1.91	\$1.95	\$1.99	\$2.03
Annual Base Rate Bill	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$123.00	\$135.00	\$150.00	\$165.00	\$183.00	\$201.00
Block 1 Volume (first 3m <sup>3</sup> per month)	36	36	36	36	36	36	36	36	36	36	36
Block 2 Volume (over 3m <sup>3</sup> per month)	104	104	104	104	104	104	104	104	104	104	104
Annual Volume Bill	\$324.80	\$324.80	\$330.80	\$336.80	\$344.20	\$351.60	\$359.00	\$366.40	\$373.80	\$381.56	\$389.32
Total Annual Bill	\$396.80	\$408.80	\$423.80	\$438.80	\$455.20	\$474.60	\$494.00	\$516.40	\$538.80	\$564.56	\$590.32
%Increase - Base Rate		17%	11%	10%	9%	11%	10%	11%	10%	11%	10%
%Increase - Volume Rate		0%	2%	2%	2%	2%	2%	2%	2%	2%	2%
% Increase - Total Annual Bill		3%	4%	4%	4%	4%	4%	5%	4%	5%	5%



# Report



# Chapter 1 Introduction



#### 1. Introduction

#### 1.1 Background

The City of Stratford currently services 12,500 water and wastewater customers. The City's water comes from the Stratford Well Supply, which is owned and operated by the City.

The water system is metered and utilizes a rate structure with a monthly base charge and a 2-step decreasing block volumetric rate of \$2.50 per cubic metre for the first block (first 3m³/month) and \$1.02 per cubic metre for the second block (after first 3m³/month). All water customers are subject to a minimum monthly charge of \$7.50 a month.

Similarly, the wastewater system also utilizes a monthly base charge as well as a 2-step decreasing block volumetric rate of \$4.14 per cubic metre for the first block (first 3m³/month) and \$1.69 per cubic metre for the second block (after first 3m³/month). All wastewater customers are subject to a minimum monthly charge of \$12.42 a month.

See Table 1-1 for existing rates.

Table 1-1 City of Stratford Water and Wastewater Rates – 2019

2019 - Wat	2019 - Water Billing Rates				2019 - Wastewater Billing Rates				
Monthly	Base Charge		Monthly Base Charge						
< 25mm (5/8")	\$	6.00		< 25mm (5/8")	\$	6.00			
< 25mm (3/4")	\$	6.00		< 25mm (3/4")	\$	6.00			
25mm (1")	\$	10.00		25mm (1")	\$	6.00			
38mm (1 1/2")	\$	13.00		38mm (1 1/2")	\$	6.00			
50mm (2")	\$	16.00		50mm (2")	\$	6.00			
75mm (3")	\$	22.00		75mm (3")	\$	6.00			
100mm (4")	\$	29.00		100mm (4")	\$	6.00			
150mm (6")	\$	50.00		150mm (6")	\$	6.00			
200mm (8")	\$	68.00		200mm (8")	\$	6.00			
Minim	um Charge		Minimum Charge						
\$ 7.5	0 Per Month		\$	12.42	Per Month				
	•	-			•				
Volume Charge - Firs	t 3m³ of usage	per month	Vo	lume Charge - First	3m <sup>3</sup> of usage	per month			
\$ 2.5	0 per m <sup>3</sup>		\$	4.14	per m <sup>3</sup>				
		-							
Volume Charge - Afte	er 3m³ of usage	per month	Vol	lume Charge - After	3m <sup>3</sup> of usage	per month			
\$ 1.0	2 per m <sup>3</sup>		\$	1.69	per m <sup>3</sup>				



With the legislative changes made in Ontario as a result of the Walkerton crisis, municipalities are conforming to the new statutes governing the management of water and wastewater systems. Watson & Associates Economists Ltd. (Watson) was retained by the City to assist in addressing these matters in a proactive manner as they relate to the water and wastewater systems. The assessment provided herein addresses changes recommended to the water and wastewater rates based on the most current information and forecasts the implications over the next ten-year period.

#### 1.2 Study Process

The objectives of the study and the steps involved in carrying out this assignment are summarized below:

- Identify all current and future water and wastewater system capital needs to assess the immediate and longer-term implications;
- Identify potential methods of cost recovery from the capital needs listing. These
  recovery methods may include other statutory authorities (e.g. *Development*Charges Act, 1997 (D.C.A.), Municipal Act, etc.) as an offset to recovery through
  the water and wastewater rates;
- Identify existing operating costs by component and estimate future operating
  costs over the next ten years. This assessment identifies fixed and variable
  costs in order to project those costs sensitive to changes to the existing
  infrastructure inventory, as well as costs which may increase commensurate with
  growth; and
- Provide staff and Council the findings to assist in gaining approval of the rates for 2020 and future years.

#### 1.3 Regulatory Changes in Ontario

Resulting from the water crisis in Walkerton, significant regulatory changes have been made in Ontario. These changes arise as a result of the Walkerton Commission and the 93 recommendations made by the Walkerton Inquiry Part II report. Areas of recommendation include:

watershed management and source protection;



- quality management;
- preventative maintenance;
- research and development;
- new performance standards;
- sustainable asset management; and
- lifecycle costing.

The legislation which would have most impacted municipal water and wastewater rates was the *Sustainable Water and Sewage Systems Act* (S.W.S.S.A.) which would have required municipalities to implement full cost pricing. The legislation was enacted in 2002; however, it had not been implemented pending the approval of its regulations. The Act was repealed as of January 1, 2013. It is expected that the provisions of the *Water Opportunities Act* will implement the fundamental requirements of S.W.S.S.A. Furthermore, on December 27, 2017, O. Reg. 588/17 was released under the *Infrastructure for Jobs and Prosperity Act, 2015* (I.J.P.A.), which outlines the requirements for asset management for municipalities. The results of the asset management review under this Act will need to be considered in light of the recent investments undertaken by the City and the capital spending plan provided herein. The following sections describe these various resulting changes.

#### 1.4 Sustainable Water and Sewage Systems Act

As noted earlier, the S.W.S.S.A. was passed on December 13, 2002. The intent of the Act was to introduce the requirement for municipalities to undertake an assessment of the "full cost" of providing their water and wastewater services. It is noted, however, that this Act has been repealed. To provide broader context and understanding to other legislation discussed herein, a description of the Act is provided below.

Full costs for water service was defined in subsection 3 (7) of the Act and included "source protection costs, operating costs, financing costs, renewal and replacement costs and improvement costs associated with extracting, treating or distributing water to the public and such other costs which may be specified by regulation." Similar provisions were made for wastewater services in subsection 4 (7) with respect to "collecting, treating or discharging waste water."



The Act would have required the preparation of two reports for submission to the Ministry of the Environment (or such other member of the Executive Council as may be assigned the administration of this Act under the *Executive Council Act*). The first report was on the "full cost of services" and the second was the "cost recovery plan." Once these reports were reviewed and approved by the Ministry, the municipality would have been required to implement the plans within a specified time period.

In regard to the **full cost of services** report, the municipality (deemed a regulated entity under the Act) would prepare and approve a report concerning the provision of water and sewage services. This report was to include an inventory of the infrastructure, a management plan providing for the long-term integrity of the systems, and would address the full cost of providing the services (other matters may be specified by the regulations) along with the revenue obtained to provide them. A professional engineer would certify the inventory and management plan portion of the report. The municipality's auditor would be required to provide a written opinion on the report. The report was to be approved by the municipality and then be forwarded to the Ministry along with the engineer's certification and the auditor's opinion. The regulations would stipulate the timing for this report.

The second report was referred to as a **cost recovery plan** and would address how the municipality intended to pay for the full costs of providing the service. The regulations were to specify limitations on what sources of revenue the municipality may use. The regulations may have also provided limits as to the level of increases any customer or class of customer may experience over any period of time. Provision was made for the municipality to implement increases above these limits; however, ministerial approval would be required first. Similar to the first report, the municipal auditor would provide a written opinion on the report prior to Council's adoption, and this opinion must accompany the report when submitted to the Province.

The Act provided the Minister the power to approve or not approve the plans. If the Minister was not satisfied with the report or if a municipality did not submit a plan, the Minister may have a plan prepared. The cost to the Crown for preparing the plan would be recovered from the municipality. As well, the Minister may direct two or more regulated municipalities to prepare a joint plan. This joint plan may be directed at the onset or be directed by the Minister after receiving the individual plans from the municipalities.



The Minister also had the power to order a municipality to generate revenue from a specific revenue source or in a specified manner. The Minister may have also ordered a regulated entity to do or refrain from doing such things as the Minister considered advisable to ensure that the entity pays the full cost of providing the services to the public.

Once the plans were approved and in place, the municipality would be required to submit progress reports. The timing of these reports and the information to be contained therein would be established by the regulations. A municipal auditor's opinion must be provided with the progress report. Municipalities would also revise the plans if they deem the estimate does not reflect the full cost of providing the services, as a result of a change in circumstances, regulatory or other changes that affect their plan, etc. The City would then revise its prior plan, provide an auditor's opinion, and submit the plan to the Minister.

#### 1.5 Financial Plans Regulation

On August 16, 2007, the M.O.E. passed O. Reg. 453/07 which requires the preparation of financial plans for water (and wastewater) systems. The M.O.E. has also provided a Financial Plan Guidance Document to assist in preparing the plans. A brief summary of the key elements of the regulation is provided below:

- The financial plan will represent one of the key elements for the municipality to obtain its Drinking Water Licence;
- The financial plans shall be for a period of at least six years, but longer planning horizons are encouraged;
- As the regulation is under the *Safe Drinking Water Act, 2002*, the preparation of the plan is mandatory for water and encouraged for wastewater;
- The plan is considered a living document (i.e. will be updated as annual budgets are prepared) but will need to be undertaken, at a minimum, every five years;
- The plans generally require the forecasting of capital, operating and reserve fund
  positions, providing detailed inventories, forecasting future users and volume
  usage and corresponding calculation of rates. In addition, P.S.A.B. information
  on the system must be provided for each year of the forecast (i.e. total nonfinancial assets, tangible capital asset acquisitions, tangible capital asset
  construction, betterments, write-downs, disposals, total liabilities and net debt);



- The financial plans must be made available to the public (at no charge) upon request and be available on the municipality's website. The availability of this information must also be advertised; and
- The financial plans are to be approved by Resolution of the Council or governing body indicating that the drinking water system is financially viable.

In general, the financial principles of the draft regulations follow the intent of S.W.S.S.A. to move municipalities towards financial sustainability. Many of the prescriptive requirements, however, have been removed (e.g. preparation of two separate documents for provincial approval, auditor opinions, engineer certifications, etc.).

A Guideline ("Towards Financially Sustainable Drinking Shores – Water and Wastewater Systems") had been developed to assist municipalities in understanding the Province's direction and provided a detailed discussion on possible approaches to sustainability. The Province's Principles of Financially Sustainable Water and Wastewater Services are provided below:

- Principle #1: Ongoing public engagement and transparency can build support for, and confidence in, financial plans and the system(s) to which they relate.
- Principle #2: An integrated approach to planning among water, wastewater, and stormwater systems is desirable given the inherent relationship among these services.
- Principle #3: Revenues collected for the provision of water and wastewater services should ultimately be used to meet the needs of those services.
- Principle #4: Lifecycle planning with mid-course corrections is preferable to planning over the short term, or not planning at all.
- Principle #5: An asset management plan is a key input to the development of a financial plan.
- Principle #6: A sustainable level of revenue allows for reliable service that meets or exceeds environmental protection standards, while providing sufficient resources for future rehabilitation and replacement needs.



- Principle #7: Ensuring users pay for the services they are provided leads to equitable outcomes and can improve conservation. In general, metering and the use of rates can help ensure users pay for services received.
- Principle #8: Financial plans are "living" documents that require continuous improvement. Comparing the accuracy of financial projections with actual results can lead to improved planning in the future.
- Principle #9: Financial plans benefit from the close collaboration of various groups, including engineers, accountants, auditors, utility staff, and municipal Council.

#### 1.6 Water Opportunities Act, 2010

As noted earlier, since the passage of the *Safe Drinking Water Act, 2002*, continuing changes and refinements to the legislation have been introduced. Some of these Bills have found their way into law, while others have not been approved. Bill 72, the *Water Opportunities Act, 2010*, was introduced into legislation on May 18, 2010 and received Royal Assent on November 29, 2010.

The Act provides for the following elements:

- The fostering of innovative water, wastewater and stormwater technologies, services and practices in the private and public sectors;
- Preparation of water conservation plans to achieve water conservation targets established by the regulations; and
- Preparation of sustainability plans for municipal water services, municipal wastewater services and municipal stormwater services.

With regard to the sustainability plans:

- The Act extends from the water financial plans and requires a more detailed review of the water financial plan and requires a full plan for wastewater and stormwater services; and
- Regulations will provide performance targets for each service these targets may vary based on the jurisdiction of the regulated entity or the class of entity.



#### The financial plan shall include:

- An asset management plan for the physical infrastructure;
- A financial plan;
- For water, a water conservation plan;
- An assessment of risks that may interfere with the future delivery of the municipal service, including, if required by the regulations, the risks posed by climate change and a plan to deal with those risks; and
- Strategies for maintaining and improving the municipal service, including strategies to ensure the municipal service can satisfy future demand, consider technologies, services and practices that promote the efficient use of water and reduce negative impacts on Ontario's water resources, and increase cooperation with other municipal service providers.

Performance indicators will be established by service, with the following considerations:

- May relate to the financing, operation or maintenance of a municipal service or to any other matter in respect of what information may be required to be included in a plan;
- May be different for different municipal service providers or for municipal services in different areas of the Province.

#### Regulations will prescribe:

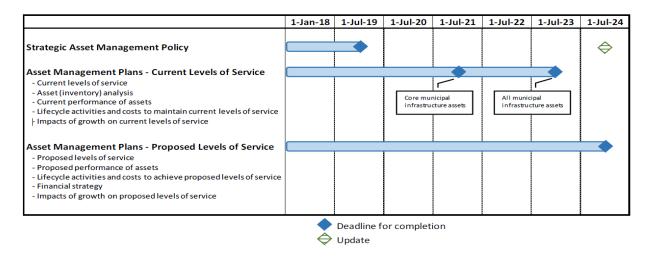
- Timing;
- Contents of the plans;
- Which identified portions of the plan will require certification;
- Public consultation process; and
- Limitations, updates, refinements, etc.

As noted earlier, it is expected that this Act will implement the principles of the S.W.S.S.A. once all regulations are put in place.



#### 1.7 Infrastructure for Jobs and Prosperity Act, 2015 (I.J.P.A.)

On June 4, 2015, the Province of Ontario passed the I.J.P.A. which, over time, will require municipalities to undertake and implement asset management plans for all infrastructure they own. On December 27, 2017, the Province released Ontario Regulation 588/17 under the I.J.P.A. which has three phases that municipalities must meet:



Every municipality in Ontario will have to prepare a strategic asset management policy by July 1, 2019. Municipalities will be required to review their strategic asset management policies at least every five years and make updates as necessary. The subsequent phases are as follows:

- Phase 1 Asset Management Plan (by July 1, 2021):
  - o For core assets, municipalities must have the following:
    - Inventory of assets;
    - Current levels of service measured by standard metrics; and
    - Costs to maintain levels of service.
- Phase 2 Asset Management Plan (by July 1, 2023):
  - Same steps as Phase 1 but for all assets.
- Phase 3 Asset Management Plan (by July 1, 2024):
  - Builds on Phase 1 and 2 by adding:
    - Proposed levels of service; and
    - Lifecycle management and financial strategy.



In relation to water and wastewater (which is considered a core asset), municipalities will need to have an asset management plan that addresses the related infrastructure by July 1, 2021 (Phase 1). O. Reg. 588/17 specifies that the municipality's asset management plan must include the following for each asset category:

- The current levels of service being provided, determined in accordance with the following qualitative descriptions and technical metrics and based on data from at most the two calendar years prior to the year in which all information required under this section is included in the asset management plan;
- The current performance of each asset category, including:
  - o a summary of the assets in the category;
  - o the replacement cost of the assets in the category;
  - the average age of the assets in the category, determined by assessing the average age of the components of the assets;
  - the information available on the condition of the assets in the category;
  - a description of the municipality's approach to assessing the condition of the assets in the category, based on recognized and generally accepted good engineering practices where appropriate; and
- The lifecycle activities that would need to be undertaken to maintain the current levels of service.

Upon completion of the asset management plan for water and wastewater services, the City will need to consider the impacts on the capital plan provided herein.

#### 1.8 Forecast Growth and Servicing Requirements

As mentioned earlier, the City currently services 12,500 water and wastewater customers. Information on the existing number of customers and existing billable volumes was obtained from City staff.

For future water and wastewater customers to be added to the systems, consideration has been given to development potential within the serviced areas of the City over the forecast period 2020 to 2029. Based on previous development activity, this is forecasted to be 85 customers annually from 2020 to 2025 and 51 customers annually from 2026 to 2029.



The assumed volumes per customer is 140 m³ per year. This reflects the City's senior population, as well as the residential units with lower populations per unit.

Tables 1-2 and 1-3 provide for the forecast of water and wastewater users and volumes within the City, respectively.



#### Table 1-2 Stratford Water System Forecast

#### Water Users Forecast

Year	Total Users	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2020	85		43	85	85	85	85	85	85	85	85	85
2021	85			43	85	85	85	85	85	85	85	85
2022	85				43	85	85	85	85	85	85	85
2023	85					43	85	85	85	85	85	85
2024	85						43	85	85	85	85	85
2025	85							43	85	85	85	85
2026	51								26	51	51	51
2027	51									26	51	51
2028	51										26	51
2029	51											26
Total	714	-	43	128	213	298	383	468	536	587	638	689
m³/user	140	140	140	140	140	140	140	140	140	140	140	140
Annual Flow		-	6,020	17,920	29,820	41,720	53,620	65,520	75,040	82,180	89,320	96,460

Water Customer Forecast	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500
New - Growth	-	43	128	213	298	383	468	536	587	638	689
Total	12,500	12,543	12,628	12,713	12,798	12,883	12,968	13,036	13,087	13,138	13,189

Water Volume Forecast (m³)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing:											
First 3 m <sup>3</sup> per month	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000
After first 3 m <sup>3</sup> per month	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624
Subtotal Existing	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624
New:											
First 3 m <sup>3</sup> per month	-	1,548	4,608	7,668	10,728	13,788	16,848	19,296	21,132	22,968	24,804
After first 3 m <sup>3</sup> per month	-	4,472	13,312	22,152	30,992	39,832	48,672	55,744	61,048	66,352	71,656
Subtotal New	-	6,020	17,920	29,820	41,720	53,620	65,520	75,040	82,180	89,320	96,460
Total	3,064,624	3,070,644	3,082,544	3,094,444	3,106,344	3,118,244	3,130,144	3,139,664	3,146,804	3,153,944	3,161,084



Table 1-3 Stratford Wastewater System Forecast

#### Wastewater Users Forecast

Year	Total Users	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2020	85		43	85	85	85	85	85	85	85	85	85
2021	85			43	85	85	85	85	85	85	85	85
2022	85				43	85	85	85	85	85	85	85
2023	85					43	85	85	85	85	85	85
2024	85						43	85	85	85	85	85
2025	85							43	85	85	85	85
2026	51								26	51	51	51
2027	51									26	51	51
2028	51										26	51
2029	51											26
Total	714	-	43	128	213	298	383	468	536	587	638	689
m³/user	140	140	140	140	140	140	140	140	140	140	140	140
Annual Flow		-	6,020	17,920	29,820	41,720	53,620	65,520	75,040	82,180	89,320	96,460

Wastewater Customer Forecast	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500
New - Growth	-	43	128	213	298	383	468	536	587	638	689
Total	12,500	12,543	12,628	12,713	12,798	12,883	12,968	13,036	13,087	13,138	13,189

Wastewater Flows Forecast (m³)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing:											
First 3 m <sup>3</sup> per month	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000
After first 3 m <sup>3</sup> per month	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624	2,614,624
Subtotal Existing	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624	3,064,624
New:											
First 3 m <sup>3</sup> per month	-	1,548	4,608	7,668	10,728	13,788	16,848	19,296	21,132	22,968	24,804
After first 3 m <sup>3</sup> per month	-	4,472	13,312	22,152	30,992	39,832	48,672	55,744	61,048	66,352	71,656
Subtotal New	-	6,020	17,920	29,820	41,720	53,620	65,520	75,040	82,180	89,320	96,460
Total	3,064,624	3,070,644	3,082,544	3,094,444	3,106,344	3,118,244	3,130,144	3,139,664	3,146,804	3,153,944	3,161,084

Note: Above flows are water flows on which the wastewater billing will be calculated



# Chapter 2 Capital Infrastructure Needs



### 2. Capital Infrastructure Needs

#### 2.1 Capital Forecast

Capital forecasts have been provided for the water and wastewater systems and are presented on Tables 2-1 and 2-2 (Note: the costs are in inflated dollars). The basis for these forecasts is the City's capital budget.

A summary of the capital works related to the water and wastewater services is provided on the following tables.



Table 2-1 2020 to 2029 Water Capital Forecast Summary (Inflated \$)

Description	Total 2020-2029	Years Undertaken
Capital Expenditures		
Asphalt Resurfacing	1,019,000	2020-2029
House Service Applications	995,000	2021-2029
Miscellanous Repairs	1,041,000	2020-2029
Romeo Reservoir Works	825,000	2021-2029
Mechanical Upgrades to Wells	100,000	2020
Watermain Relining Various Streets	3,945,000	2020-2029
Hydrant Distribution Monitoring	156,000	2020-2024
Redford Cresent - at St. Vincent	540,000	2020
Huron Street - Matilda to Douglas	1,700,000	2020, 2024, 2025
Queen Street Storm Trunk Sewer	75,000	2020
Avondale Ave from Huron to Cemetery	383,000	2021
MacKenzie - St. David to Cambria	224,000	2021
Jones Street LI from Caledonia to Brittania	234,000	2022
Queen Street local reconstruction Lakeside to Ontario	364,000	2022
Willow Street from Pleasant to Devon - WM Relining	640,000	2022
Brunswick Street from Queen to King	287,000	2023
Mercer Street from Caledonia to Brittania	244,000	2023
Ontario from Queen to Parkview -WM replacement	212,000	2023
St. Vincent St. South - Redford to West Gore	314,000	2024
Queen Street from Ontario to Brunswick	184,000	2024
Argyle Street - St. David to Cambria	238,000	2024
Daly Avenue, Birmingham to Worsely	331,000	2025
Water Street from Parkview to Queen	221,000	2025
McDonald Street Willow to Devon	225,000	2026
Mowat Street from West Gore to Brydges	383,000	2026
Perth Street - Downie to Borden	586,000	2026
Laurier Street - East Gore to Norfolk	172,000	2027
Brunswick Street - King to Romeo	276,000	2027
Douglas Street - Huntingdon to Avondale	414,000	2027
Birmingham St - Cambria to Daly	316,000	2027
Woods Street - Birmingham to St. Vincent	316,000	2028
Norfolk Street Borden to Romeo	469,000	2028
Stratford Street	258,000	2028
Avon St - Avondale to McLagan	430,000	2029
Grange Street - Waterloo to Front	538,000	2029
Queen Street - Brunswick to Douro	269,000	2029
Studies:		0004 5555
Water & Wastewater Rate Study (Water Portion)	86,000	2024, 2029
Water Needs Assessment Update	168,000	2023
Total Capital Expenditures	19,178,000	



Table 2-2 2020 to 2029 Wastewater Capital Forecast Summary (Inflated \$)

	Total	
Description	2020-2029	Years Undertaken
Capital Expenditures		
Asphalt Resurfacing	944,000	2021-2029
House Service Applications	1,095,000	2020-2029
Sewer Relining Various Streets	4,078,000	2021-2029
Pumping Station Upgrades	991,000	2020-2029
Residential Service Upgrades - sewer subsidy	822,000	2020-2029
program	·	
Basement Isolation	328,000	2020-2029
WPCP Improvements	3,831,000	2020-2029
WPCP Process Review	255,000	2021
Grit Removal System	510,000	2021
Filter Bed Replacement	322,000	2022, 2025
SCADA and PLC Upgrades	20,000	2020
Redford Cresent - at St. Vincent	410,000	2020
Huron Street - Matilda to Douglas	883,000	2024-2025
Queen Street Storm Trunk Sewer	220,000	2020
Avondale Ave from Huron to Cemetery	306,000	2021
MacKenzie - St. David to Cambria	163,000	2021
Waldies Lane	208,000	2022
Jones Street LI from Caledonia to Brittania	177,000	2022
Queen Street local reconstruction Lakeside to Ontario	125,000	2022
Brunswick Street from Queen to King	212,000	2023
Mercer Street from Caledonia to Brittania	164,000	2023
St. Vincent St. South - Redford to West Gore	54,000	2024
Queen Street from Ontario to Brunswick	152,000	2024
Argyle Street - St. David to Cambria	173,000	2024
Daly Avenue, Birmingham to Worsely	315,000	2025
Water Street from Parkview to Queen	166,000	2025
McDonald Street Willow to Devon	180,000	2026
Mowat Street from West Gore to Brydges	282,000	2026
Perth Street - Downie to Borden	428,000	2026
Laurier Street - East Gore to Norfolk	172,000	2027
Brunswick Street - King to Romeo	218,000	2027
Douglas Street - Huntingdon to Avondale	310,000	2027
Birmingham St - Cambria to Daly	230,000	2027
Woods Street - Birmingham to St. Vincent	258,000	2028
Norfolk Street Borden to Romeo	351,000	2028
Stratford Street	187,000	2028
Avon St - Avondale to McLagan	359,000	2029
Grange Street - Waterloo to Front	490,000	2029
Queen Street - Brunswick to Douro	227,000	2029
Studies:		
Water & Wastewater Rate Study (Wastewater Portion)	86,000	2024, 2029
Total Capital Expenditures	20,702,000	



# Chapter 3 Lifecycle Costing



# 3. Lifecycle Costing

## 3.1 Overview of Lifecycle Costing

#### 3.1.1 Definition

For many years, lifecycle costing has been used in the field of maintenance engineering and to evaluate the advantages of using alternative materials in construction or production design. The method has gained wider acceptance and use in the areas of industrial decision-making and the management of physical assets.

By definition, lifecycle costs are all the costs which are incurred during the lifecycle of a physical asset, from the time its acquisition is first considered to the time it is taken out of service for disposal or redeployment. The stages which the asset goes through in its lifecycle are specification, design, manufacture (or build), install, commission, operate, maintain and disposal. Figure 3-1 depicts these stages in a schematic form.

#### 3.1.2 Financing Costs

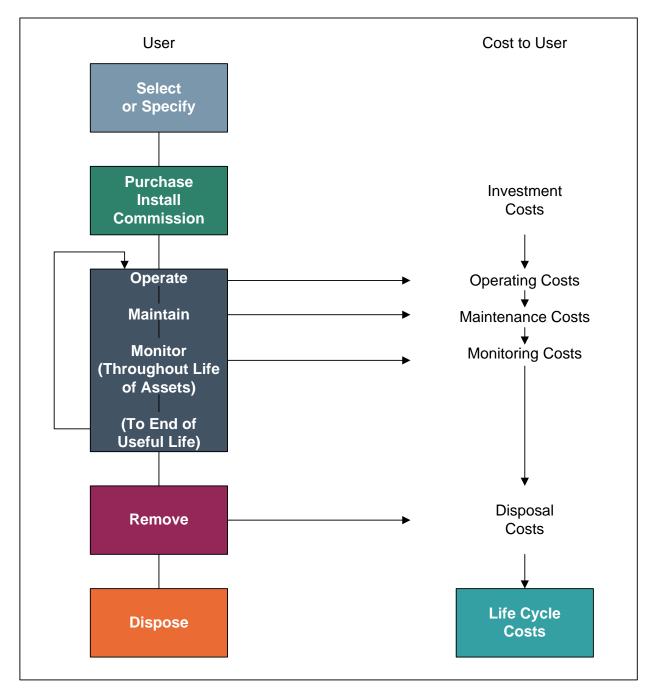
This section will focus on financing mechanisms in place to fund the costs incurred throughout the asset's life.

In a municipal context, services are provided to benefit tax/rate payers. Acquisition of assets is normally timed in relation to direct needs within the community. At times, economies of scale or technical efficiencies will lead to oversizing an asset to accommodate future growth within the City. Over the past few decades, new financing techniques such as development charges have been employed based on the underlying principle of having tax/rate payers who benefit directly from the service paying for that service. Operating costs which reflect the cost of the service for that year are charged directly to all existing tax/rate payers who have received the benefit. Operating costs are normally charged through the tax base or user rates.

Capital expenditures are recouped through several methods, with operating budget contributions, development charges, reserves, developer contributions and debentures, being the most common.



Figure 3-1 Lifecycle Costing



New construction related to growth could produce development charges and developer contributions (e.g. works internal to a subdivision which are the responsibility of the developer to construct) to fund a significant portion of projects, where new assets are being acquired to allow growth within the City to continue. As well, debentures could be



used to fund such works, with the debt charge carrying costs recouped from taxpayers in the future.

Capital construction to replace existing infrastructure, however, is largely not growth-related and will therefore not yield development charges or developer contributions to assist in financing these works. Hence, a municipality will be dependent upon debentures, reserves and contributions from the operating budget to fund these works.

Figure 3-2 depicts the costs of an asset from its initial conception through to replacement and then continues to follow the associated costs through to the next replacement.

As referred to earlier, growth-related financing methods such as development charges and developer contributions could be utilized to finance the growth-related component of the new asset. These revenues are collected (indirectly) from the new homeowner who benefits directly from the installation of this asset. Other financing methods may be used as well to finance the non-growth-related component of this project, such as reserves which have been collected from past tax/rate payers, operating budget contributions which are collected from existing tax/rate payers and debenturing which will be carried by future tax/rate payers. Ongoing costs for monitoring, operating and maintaining the asset will be charged annually to the existing tax/rate payer.

When the asset requires replacement, the sources of financing will be limited to reserves, debentures and contributions from the operating budget. At this point, the question is raised: "If the cost of replacement is to be assessed against the tax/rate payer who benefits from the replacement of the asset, should the past tax/rate payer pay for this cost or should future rate payers assume this cost?" If the position is taken that the past user has used up the asset, hence he should pay for the cost of replacement, then a charge should be assessed annually through the life of the asset, to have funds available to replace it when the time comes. If the position is taken that the future tax/rate payer should assume this cost, then debenturing and, possibly, a contribution from the operating budget should be used to fund this work.

Charging for the cost of using up an asset is the fundamental concept behind depreciation methods utilized by the private sector. This concept allows for expending the asset as it is used up in the production process. The tracking of these costs forms part of the product's selling price and, hence, end-users are charged for the asset's



depreciation. The same concept can be applied in a municipal setting to charge existing users for the asset's use and set those funds aside in a reserve to finance the cost of replacing the asset in the future.

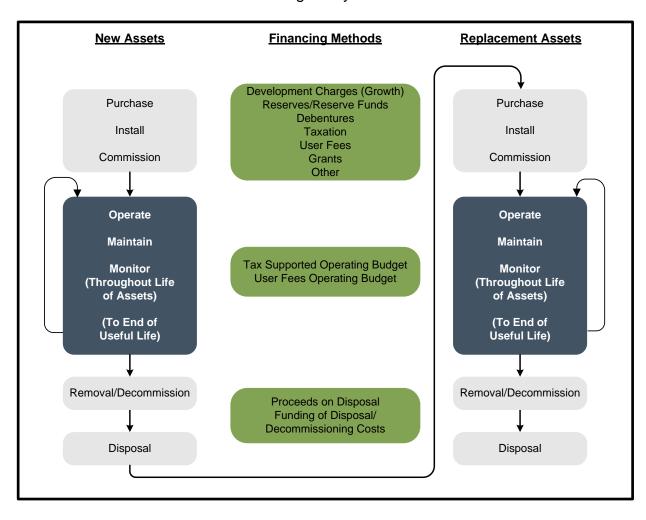


Figure 3-2
Financing Lifecycle Costs

#### 3.1.3 Costing Methods

There are two fundamental methods of calculating the cost of the usage of an asset and for the provision of the revenue required when the time comes to retire and replace it. The first method is the Depreciation Method. This method recognizes the reduction in the value of the asset through wear and tear and aging. There are two commonly used forms of depreciation: the straight-line method and the reducing balance method (shown graphically in Figure 3-3).



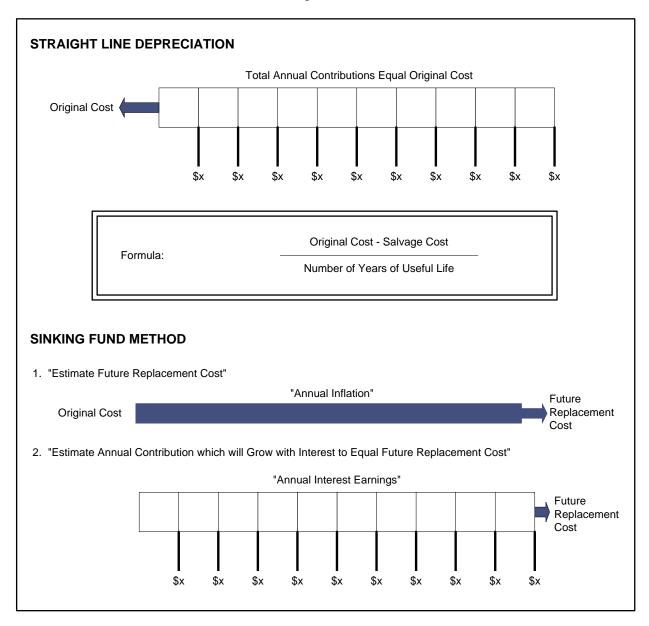
The straight-line method is calculated by taking the original cost of the asset, subtracting its estimated salvage value (estimated value of the asset at the time it is disposed of) and dividing this by the estimated number of years of useful life. The reducing balance method is calculated by utilizing a fixed percentage rate and this rate is applied annually to the undepreciated balance of the asset value.

The second method of lifecycle costing is the sinking fund method. This method first estimates the future value of the asset at the time of replacement. This is done by inflating the original cost of the asset at an assumed annual inflation rate. A calculation is then performed to determine annual contributions (equal or otherwise) which, when invested, will grow with interest to equal the future replacement cost.

The preferred method used herein for forecasting purposes is the sinking fund method of lifecycle costing.



Figure 3-3



# 3.2 Impact on Budgets

Detailed water and wastewater systems inventory information was obtained from the City staff. The age of the water system dates back to the early 1900's while the wastewater system dates back to the mid 1890's. Both water and wastewater systems have been expanded throughout the years. The total value of existing water



infrastructure is \$91.8 million, and the value of existing wastewater infrastructure is \$176.5 million.

The detailed water and wastewater inventories are provided in Appendices A and B, respectively. As well, the lifecycle "sinking fund" contribution amounts for each piece of infrastructure have also been included. These calculations determine the level of investment the City may wish to consider as part of its budgeting practices. This information is summarized in Figure 3-4.

Figure 3-4
City of Stratford
Summary of Water and Wastewater Infrastructure

Area	Total Replacement Value	Suggested amount to be included in 10- year forecast based on estimated life	Infrastructure amount included in 10-year forecast (excluding studies)	Net Replacement for Future Lifecycle	Annual Lifecycle Replacement
Water					
Water Facilities	22,254,682	15,031,436			437,169
Hydrants	5,378,336	3,007,352			110,480
Valves, Chambers, and	6,468,910	4,560,074	18,924,000	72,852,769	118,068
Curb Stops	0,400,910	4,300,074			110,000
Watermains	57,674,841	8,656,204			1,779,527
Total Water	91,776,769	31,255,066	18,924,000	72,852,769	2,445,243
Wastewater					
Wastewater Facilities	81,103,662	6,082,734			4,898,991
Manholes	17,277,543	2,742,093	20,616,000	155,852,567	429,360
Sanitary Sewers	78,087,362	18,567,740			1,744,280
Total Wastewater	176,468,567	27,392,567	20,616,000	155,852,567	7,072,631
Total	268,245,336	58,647,633	39,540,000	228,705,336	9,517,875

Investment per customer is \$7,342 for water and \$14,117 for wastewater

With respect to lifecycle costing contained in the Appendices, the following information was taken into consideration:

- approximate age;
- material type;
- main lengths;
- diameter of the mains;
- · estimated useful life; and
- estimated replacement costs.

Summaries of both water and wastewater assets are shown on Figures 3-5 and 3-6. These figures show when the assets are coming due and the cost of replacement in 2020 dollars.



Figure 3-5 City of Stratford Summary of Water Infrastructure Replacement Years (2020 \$)

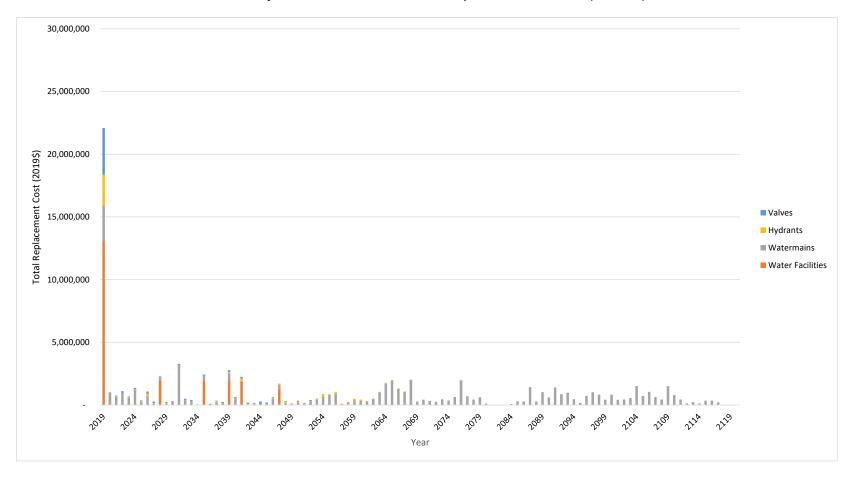
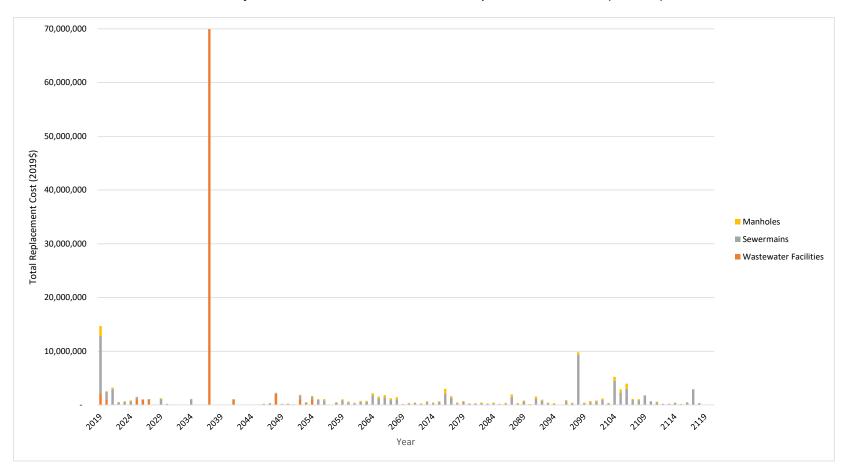




Figure 3-6 City of Stratford Summary of Wastewater Infrastructure Replacement Years (2020 \$)





# Chapter 4 Capital Cost Financing Options



# 4. Capital Cost Financing Options

# 4.1 Summary of Capital Cost Financing Alternatives

Historically, the powers that municipalities had to raise alternative revenues to taxation to fund capital services have been restrictive. Over the past decade, legislative reforms have been introduced. Some of these have expanded municipal powers (e.g. Bill 26 introduced in 1996 to provide for expanded powers for imposing fees and charges), while others appear to restrict them (Bill 98 in 1997 providing amendments to the D.C.A.).

The Province passed a new *Municipal Act* which came into force on January 1, 2003. Part XII of the Act and O. Reg. 584/06 govern a municipality's ability to impose fees and charges. In contrast to the previous *Municipal Act*, this Act provides municipalities with broadly defined powers and does not differentiate between fees for operating and capital purposes. It is anticipated that the powers to recover capital costs under the previous *Municipal Act* will continue within the new Statutes and Regulations, as indicated by s. 9 (2) and s. 452 of the new *Municipal Act*.

Under s. 484 of *Municipal Act, 2001*, the *Local Improvement Act* was repealed with the in-force date of the *Municipal Act* (January 1, 2003). The municipal powers granted under the *Local Improvement Act* now fall under the jurisdiction of the *Municipal Act*. To this end, on December 20, 2002, O. Reg. 390/02 was filed, which allowed for the *Local Improvement Act* to be deemed to remain in force until April 1, 2003. O. Reg. 119/03 was enacted on April 19, 2003, which restored many of the previous *Local Improvement Act* provisions; however, the authority is now provided under the *Municipal Act*.



The methods of capital cost recovery available to municipalities are provided as follows:

#### **Recovery Methods**

#### **Section Reference**

4.2

- Development Charges Act, 1997
- Municipal Act 4.3
  - Fees and Charges
  - Sewer and Water Area Charges
  - Connection Fees
  - Local Improvements

# 4.2 Development Charges Act, 1997

In November 1996, the Ontario Government introduced Bill 98, a new *Development Charges Act*. The Province's stated intentions were to "create new construction jobs and make home ownership more affordable" by reducing the charges and to "make municipal Council decisions more accountable and more cost effective." The basis for this Act is to allow municipalities to recover the growth-related capital cost of infrastructure necessary to accommodate new growth within the municipality. Generally, the Act provided the following changes to the former Act:

- Replace those sections of the 1989 Act that govern municipal development charges;
- Limit services which can be financed from development charges, specifically excluding parkland acquisition, administration buildings, and cultural, entertainment, tourism, solid waste management and hospital facilities;
- Ensure that the level of service used in the calculation of capital costs will not
  exceed the average level of service over the previous decade. Level of service is
  to be measured from both a quality and quantity perspective;
- Provide that uncommitted excess capacity available in existing municipal facilities and benefits to existing residents are removed from the calculation of the charge;
- Ensure that the development charge revenues collected by municipalities are spent only on those capital costs identified in the calculation of the development charge;



- Require municipalities to contribute funds (e.g. taxes, user charges or other nondevelopment charge revenues) to the financing of certain projects primarily funded from development charges. The municipal contribution is 10 percent for services such as recreation, parkland development, libraries, etc.;
- Permit (but apparently not require) municipalities to grant developers credits for the direct provision of services identified in the development charge calculation and, when credits are granted, require the municipality to reimburse the developer for the costs the municipality would have incurred if the project had been financed from the development charge reserve fund;
- Set out provisions for front-end financing capital projects (limited to essential services) required to service new development; and
- Set out provisions for appeals and complaints.

In late 2015, the Province approved further amendments to the D.C.A. With respect to water and wastewater, the only changes are for the municipality to provide an asset management calculation for the growth-related works and for the Council to consider (but not necessarily approve) area-specific rates. In May of 2019, the Province introduced additional amendments to the D.C.A. through Bill 108, however, the amendments only affect water and wastewater services related to the time of determination of the charges and the timing for payment for certain types of developments.

#### 4.3 Municipal Act

Part XII of the *Municipal Act* provides municipalities with broad powers to impose fees and charges via passage of a by-law. These powers, as presented in s. 391 (1), include imposing fees or charges:

- "for services or activities provided or done by or on behalf of it;
- for costs payable by it for services or activities provided or done by or on behalf of any other municipality or local board; and
- for the use of its property including property under its control."

Restrictions are provided to ensure that the form of the charge is not akin to a poll tax. Any charges not paid under this authority may be added to the tax roll and collected in a



like manner. The fees and charges imposed under this part are not appealable to the Local Planning Appeal Tribunal (LPAT), formerly known as the O.M.B.

Section 221 of the previous *Municipal Act* permitted municipalities to impose charges, by by-law, on owners or occupants of land who would or might derive benefit from the construction of sewage (storm and sanitary) or water works being authorized (in a specific benefit area). For a by-law imposed under this section of the previous Act:

- A variety of different means could be used to establish the rate and recovery of the costs and could be imposed by a number of methods at the discretion of Council (i.e. lot size, frontage, number of benefiting properties, etc.);
- Rates could be imposed with respect to costs of major capital works, even though an immediate benefit was not enjoyed;
- Non-abutting owners could be charged;
- Recovery was authorized against existing works, where a new water or sewer
  main was added to such works, "notwithstanding that the capital costs of existing
  works has in whole or in part been paid;"
- Charges on individual parcels could be deferred;
- Exemptions could be established;
- Repayment was secured; and
- LPAT approval was not required.

While under the new *Municipal Act* no provisions are provided specific to the previous s. 221, the intent to allow capital cost recovery through fees and charges is embraced within s. 391. The new *Municipal Act* also maintains the ability of municipalities to impose capital charges for water and sewer services on landowners not receiving an immediate benefit from the works. Under s. 391 (2) of the Act, "a fee or charge imposed under subsection (1) for capital costs related to sewage or water services or activities may be imposed on persons not receiving an immediate benefit from the services or activities but who will receive a benefit at some later point in time." Also, capital charges imposed under s. 391 are not appealable to the LPAT on the grounds that the charges are "unfair or unjust."

Section 222 of the previous *Municipal Act* permitted municipalities to pass a by-law requiring buildings to connect to the municipality's sewer and water systems, charging the owner for the cost of constructing services from the mains to the property line. Under the new *Municipal Act*, this power still exists under Part II, General Municipal



Powers (s. 9 (3) b of the *Municipal Act*). Enforcement and penalties for this use of power are contained in s. 427 (1) of the *Municipal Act*.

Under the previous *Local Improvement Act*:

- A variety of different types of works could be undertaken, such as watermain, storm and sanitary sewer projects, supply of electrical light or power, bridge construction, sidewalks, road widening and paving;
- Council could pass a by-law for undertaking such work on petition of a majority of benefiting taxpayers, on a 2/3 vote of Council and on sanitary grounds, based on the recommendation of the Minister of Health. The by-law was required to go to the LPAT, which might hold hearings and alter the by-law, particularly if there were objections;
- The entire cost of a work was assessed <u>only</u> upon the lots abutting directly on the work, according to the extent of their respective frontages, using an equal special rate per metre of frontage; and
- As noted, this Act was repealed as of April 1, 2003; however, O. Reg. 119/03 was enacted on April 19, 2003 which restores many of the previous Local Improvement Act provisions; however, the authority is now provided under the Municipal Act.

# 4.4 Historical Grant Funding Availability

#### Federal Infrastructure Funding

Phase 1 (April 1, 2016 to March 31, 2018)

Funding was provided by the Government of Canada to expressly help municipalities with repair and rehabilitation projects. Funding was mainly provided through the Clean Water and Wastewater Fund (C.W.W.F.) and Public Transit Infrastructure Fund (P.T.I.F.) in Federal Phase 1 projects. The C.W.W.F. was announced in Ontario on September 15, 2016. The Fund is \$1.1 billion for water, wastewater, and storm water systems in Ontario. The federal government provided \$569 million and Ontario and municipal governments provided \$275 million each.

Over 1,300 water, wastewater, and storm water projects have been approved in Ontario through the C.W.W.F. In Ontario, P.T.I.F. accounted for nearly \$1.5 billion of the



national total of \$3.4 billion. The program was allocated by ridership numbers from the Canadian Urban Transit Association. The Association of Municipalities of Ontario (A.M.O.) understands that \$1 billion of Ontario's share has been approved.

#### Phase 2: Next Steps

The federal government announced Phase 2 of its infrastructure funding plan with a total of \$180 billion spent over 11 years. In addition to the balance of funding for previous green, social, and public transit infrastructure funds (\$20 billion each, including Phase 1), the government has added \$10.1 billion for trade and transportation infrastructure and \$2 billion for rural and northern communities. This funding must be implemented by agreements with each Province and Territory.

In Phase 2, Ontario will be eligible for \$11.8 billion including \$8.3 billion for transit, \$2.8 billion for green infrastructure, \$407 million for community, culture and recreation and \$250 million for rural and northern communities.

#### Federal Gas Tax

The federal Gas Tax is a permanent source of funding provided up front, twice-a-year, to Provinces and Territories, who in turn flow this funding to their municipalities to support local infrastructure priorities. Municipalities can pool, bank and borrow against this funding, providing significant financial flexibility. Every year, the federal Gas Tax provides over \$2 billion and supports approximately 2,500 projects in communities across Canada. Each municipality selects how best to direct the funds with the flexibility provided to make strategic investments across 18 different project categories, which include other water and wastewater servicing.

#### Ontario Government

The Province has taken steps to increase municipal infrastructure funding. The Ontario Community Infrastructure Fund (O.C.I.F.) was increased in 2016 with formula-based support growing to \$200 million, and application funding growing to \$100 million annually by 2018/2019. As well, \$15 million annually will go to the new Connecting Links program to help pay for the construction and repair costs of municipal roads that connect communities to provincial highways. This is on top of the Building Ontario Up investment of \$130 billion in public infrastructure over 10 years starting in 2015.



#### 4.5 Existing Reserves/Reserve Funds

The City has established reserves and reserve funds for water and wastewater costs. The following table summarizes the water and wastewater reserves utilized in this analysis and their respective estimated balances at December 1, 2019:

Estimated Reserve Balance	Dec. 1, 2019
Water	
Capital Reserve Fund	2,378,957
Development Charges Reserve Fund	463,516
Rate Stabilization Reserve	460,021
Wastewater	
Capital Reserve Fund	(1,047,758)
Development Charges Reserve Fund	977,005
Rate Stabilization Reserve	295,914

## 4.6 Debenture Financing

Although it is not a direct method of minimizing the overall cost to the ratepayer, debentures are used by municipalities to assist in cash flowing large capital expenditures.

The Ministry of Municipal Affairs regulates the level of debt incurred by Ontario municipalities, through its powers established under the *Municipal Act*. Ontario Regulation 403/02 provides the current rules respecting municipal debt and financial obligations. Through the rules established under these regulations, a municipality's debt capacity is capped at a level where no more than 25% of the municipality's own purpose revenue may be allotted for servicing the debt (i.e. debt charges). The City of Stratford's 2018 calculation on Debt Capacity is shown on Schedule 81 of the City's 2018 recent Financial Information Return (F.I.R.). This calculates to the City's estimated annual repayment limit of approximately \$15.8 million.

#### 4.7 Infrastructure Ontario

Infrastructure Ontario (I.O.) is an arms-length crown corporation, which has been set up as a tool to offer low-cost and longer-term financing to assist municipalities in renewing their infrastructure (this corporation has merged the former O.S.I.F.A. into its operations). I.O. combines the infrastructure renewal needs of municipalities into an



infrastructure investment "pool." I.O. will raise investment capital to finance loans to the public sector by selling a new investment product called Infrastructure Renewal Bonds to individual and institutional investors.

I.O. provides access to infrastructure capital that would not otherwise be available to smaller borrowers. Larger borrowers receive a longer term on their loans than they could obtain in the financial markets, and can also benefit from significant savings on transaction costs such as legal costs and underwriting commissions. Under the I.O. approach, all borrowers receive the same low interest rate. I.O. will enter into a financial agreement with each municipality subject to technical and credit reviews, for a loan up to the maximum amount of the loan request.

The first round of the former O.S.I.F.A.'s 2004/2005 infrastructure renewal program was focused on municipal priorities of clean water infrastructure, sewage treatment facilities, municipal roads and bridges, public transit and waste management infrastructure. The focus of the program was expanded in 2005/2006 somewhat to include:

- clean water infrastructure;
- sewage infrastructure;
- waste management infrastructure;
- municipal roads and bridges;
- public transit;
- municipal long-term care homes;
- renewal of municipal social housing and culture; and
- tourism and recreation infrastructure.

With the merging of O.S.I.F.A. and I.O., the program was broadened in late 2006 to also include municipal administrative buildings, local police and fire stations, emergency vehicles and equipment, ferries, docks and municipal airports.

To be eligible to receive these loans, municipalities must submit a formal application along with pertinent financial information. Allotments are prioritized and distributed based upon the Province's assessment of need.

The analysis provided herein assumes that the City will not require debt financing for the capital projects identified.



## 4.8 Recommended Capital Financing Approach

Of the various funding alternatives provided in this section, the following are recommended for further consideration by the City for the capital expenditures (inflated) provided in Chapter 2:

Description	Water 2020-2029	Wastewater 2020-2029
Capital Financing		
Provincial/Federal Grants	-	-
Development Charges Reserve Fund	-	-
Non-Growth Related Debenture Requirements	-	-
Growth Related Debenture Requirements	-	-
Operating Contributions	-	-
Lifecycle Reserve Fund	-	-
Water Reserve	19,178,000	•
Wastewater Reserve	-	20,702,000
Total Capital Financing	19,178,000	20,702,000

Tables 4-1 and 4-2 provide for the full capital expenditure and funding program by year for water and wastewater respectively. As noted in section 4.5, the present reserve balances are not sufficient to fund all the necessary capital expenditures, hence additional contributions will be made annually from the operating budget and funded from rates. These contributions from the operating budget provide approximately \$18 million towards the water reserve and \$33 million to the wastewater reserve over the forecast period (2020 to 2029). This level of funding is suggested in order to meet the capital requirements within the forecast period, as well as the lifecycle capital for the remainder of the system that will be coming due in future years (as shown in section 3.2).



Table 4-1
Capital Budget Forecast – Water (inflated \$)

	Budget						For	ecast				
Description	2019	Total	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Capital Expenditures			_0_0	_0		_0_0					_0_0	
Asphalt Resurfacing	_	1,019,000	75,000	77,000	78,000	106,000	108,000	110,000	113,000	115,000	117,000	120,000
House Service Applications	-	995,000	73,000	102,000	104,000	106,000	108,000	110,000	113,000	115,000	117,000	120,000
Miscellanous Repairs	125,000	1,041,000	100,000	102,000	104,000	106,000	54,000	110,000	113,000	115,000	117,000	120,000
<u>'</u>	,	825,000	,		_							
Romeo Reservoir Works	120,000		-	102,000	78,000	106,000	108,000	83,000	84,000	86,000	88,000	90,000
Mechanical Upgrades to Wells	-	100,000	100,000	-	-	-	-	-	-	-	-	-
Watermain Relining Various Streets	-	3,945,000	175,000	255,000	-	371,000	271,000	552,000	563,000	574,000	586,000	598,000
Frederick Street from Romeo to Burritt and Burritt to Douro	340,000	-	-	-	-	-	-	-	-	-	-	-
St Vincent Street	255,535	-	-	-	-	-	-	-	-	-	-	-
St Vincent WM from Patricia to Redford add funds	250,000	-	-	-	-	-	-	-	-	-	-	-
Ballantyne Street	612,532	-	-	-	-	-	-	-	-	-	-	-
Pleasant Drive from Ontario to Devon	190,000	-	-	-	-	-		-	-	-	-	-
Hydrant Distribution Monitoring	-	156,000	30,000	31,000	31,000	32,000	32,000	-	-	-	-	-
Redford Cresent - at St. Vincent	-	540,000	540,000	-	-	-	-	-	-	-	-	-
Huron Street - Matilda to Douglas	-	1,700,000	333,000		-	-	671,000	696,000	-	-	-	-
Queen Street Storm Trunk Sewer	-	75,000	75,000	ı	-	1	•	-	-	-	ı	-
Avondale Ave from Huron to Cemetery	-	383,000	-	383,000	-	-		-	-	-	-	-
MacKenzie - St. David to Cambria	-	224,000		224,000	•	•	1	-	-	-	-	-
Jones Street LI from Caledonia to Brittania	-	234,000	-	-	234,000	-	-	-	-	-	-	-
Queen Street local reconstruction Lakeside to Ontario	-	364,000	-	-	364,000	-	-	-	-	-	-	-
Willow Street from Pleasant to Devon - WM Relining	-	640,000	-	-	640,000	-	-	-	-	-	-	-
Brunswick Street from Queen to King	_	287,000	_	_	_	287,000	-	_	_	-	-	-
Mercer Street from Caledonia to Brittania	_	244,000	-	-	_	244,000	-	-	_	-	-	-
Ontario from Queen to Parkview -WM replacement	_	212,000	-	-	_	212,000	-	_	_	-	_	-
St. Vincent St. South - Redford to West Gore	_	314,000	-	-	_	-	314,000	_	_	-	-	-
Queen Street from Ontario to Brunswick	_	184,000	_	-	_	-	184,000	_	_	_	_	_
Argyle Street - St. David to Cambria	-	238,000	_	-	-	-	238,000	-	-	-	-	-
Daly Avenue, Birmingham to Worsely	_	331,000		-			230,000	331,000	_			
Water Street from Parkview to Queen		221,000	_	-	-	-	-	221,000	_	-	-	-
McDonald Street Willow to Devon	-	225,000		-	-	-		-	225,000	-	-	
Mowat Street from West Gore to Brydges	-	383,000		-		-	-	-	383,000	-		
, ,					-						-	-
Perth Street - Downie to Borden	-	586,000	-	-	-	-	-	-	586,000	470.000	-	-
Laurier Street - East Gore to Norfolk	-	172,000	-	-	-	-	-	-	-	172,000	-	-
Brunswick Street - King to Romeo	-	276,000	-	-	-	-	-	-	-	276,000	-	-
Douglas Street - Huntingdon to Avondale	-	414,000	-	-	-	-	-	-	-	414,000	-	-
Birmingham St - Cambria to Daly	-	316,000	-	-	-	-	-	-	-	316,000	-	-
Woods Street - Birmingham to St. Vincent	-	316,000	-	-	-	-	-	-	-	-	316,000	-
Norfolk Street Borden to Romeo	-	469,000	-	-	-	-	-	-	-	-	469,000	-
Stratford Street	-	258,000	-	-	-	-	-	-	-	-	258,000	-
Avon St - Avondale to McLagan	-	430,000	-	-	-	-		-	-	-	-	430,000
Grange Street - Waterloo to Front	-	538,000	-	-	-	-	-	-	-	-	-	538,000
Queen Street - Brunswick to Douro	-	269,000	-	-	-	-	-	-	-	-	-	269,000
Studies:	-	-	-	-	-	-	-	-	-	-	-	-
Water & Wastewater Rate Study (Water Portion)	27,500	86,000	-	-	-	-	41,000	-	-	-	-	45,000
Water Model / Master Plan	50,073	-	-	-	-	-		-	-	-	-	-
Water Needs Assessment Update	-	168,000	-	ı	-	80,000	•	-	-	-	88,000	•
Total Capital Expenditures	1,970,640	19,178,000	1,428,000	1,276,000	1,633,000	1,650,000	2,129,000	2,213,000	2,180,000	2,183,000	2,156,000	2,330,000
Capital Financing												
Provincial/Federal Grants		-										
Development Charges Reserve Fund	-	-	-	-	-	-	-	-	-	-	-	-
Non-Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	-
Growth Related Debenture Requirements	-	-	-	-	_	-	-	_	-	-	-	_
Operating Contributions	-	-	_	_	_	_	-	_	_	-	-	_
Lifecycle Reserve Fund	_	-	-	-	-	-	-	_	_	-	-	_
Water Reserve	1,970,640	19,178,000		1,276,000	1,633,000	1,650,000	2,129,000	2,213,000	2,180,000	2,183,000	2,156,000	2,330,000
Total Capital Financing	1,970,640	19,178,000			1,633,000		2,129,000	2,213,000				2,330,000
Total Gapital Fillancing	1,970,040	19,170,000	1,420,000	1,210,000	1,033,000	1,050,000	2,129,000	2,213,000	2,100,000	2,103,000	2,130,000	2,330,000



Table 4-2
Capital Budget Forecast – Wastewater (inflated \$)

	Budget		Forecast									
Description	2019	Total	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Capital Expenditures	2013		2020	2021	2022	2020	2024	2023	2020	2021	2020	1013
Asphalt Resurfacing	40,000	944,000	_	77,000	78,000	106,000	108,000	110,000	113,000	115,000	117,000	120,000
·	100,000	1,095,000	100,000	102,000	104,000	106,000	108,000	110,000	113,000	115,000	117,000	120,000
House Service Applications Sewer Relining Various Streets	60,000	4,078,000	100,000	255,000	364,000	371,000	325,000	442,000	563,000	574,000	586,000	598,000
· ·	,		400,000				,					
Pumping Station Upgrades	75,000	991,000	100,000	77,000 77,000	78,000 78,000	80,000	81,000 81,000	110,000	113,000 84,000	115,000 86,000	117,000 88,000	120,000
Residential Service Upgrades - sewer subsidy program	144,000	822,000	75,000			80,000	32,000	83,000		34,000		90,000
Basement Isolation	35,000	328,000	30,000	31,000	31,000	32,000	,	33,000	34,000	,	35,000	36,000
WPCP Improvements WPCP Process Review	200,000	3,831,000 255,000	350,000	357,000 255,000	364,000	371,000	379,000	386,000	394,000	402,000	410,000	418,000
	-		-		-	-	-	-	-	-	-	-
Grit Removal System	350,000	510,000	-	510,000	-	-	-	-	-	-	-	-
Frederick Street from Romeo to Burritt and Burritt to Douro	60,000	-	-	-	-	-	-	-	-	-	-	-
St Vincent WM from Patricia to Redford add funds	170,000	-	-	-	-	-	-	-	-	-	-	-
Pleasant Drive from Ontario to Devon	350,000	-	-	-	-	-	-	-	-	-	-	-
Filter Bed Replacement	-	322,000	-	-	156,000	-	-	166,000	-	-	-	-
SCADA and PLC Upgrades	-	20,000	20,000	-	-	-	-	-	-	-	-	-
Redford Cresent - at St. Vincent	-	410,000	410,000	-	-	-	-	-	-	-	-	-
Huron Street - Matilda to Douglas	-	883,000		-	-	-	541,000	342,000	-	-	-	-
Queen Street Storm Trunk Sewer	-	220,000	220,000	-	-	-	-	-	-	-	-	-
Avondale Ave from Huron to Cemetery	-	306,000	-	306,000	-	-	-	-	-	-	-	-
MacKenzie - St. David to Cambria	-	163,000	-	163,000	-	-	-	-	-	-	-	-
Waldies Lane	-	208,000	-	-	208,000	-	-	-	-	-	-	-
Jones Street LI from Caledonia to Brittania	-	177,000	-	-	177,000	-	-	-	-	-	-	-
Queen Street local reconstruction Lakeside to Ontario	-	125,000	-	-	125,000	-	-	-	-	-	-	-
Brunswick Street from Queen to King	-	212,000	-	-	-	212,000	-	-	-	-	-	-
Mercer Street from Caledonia to Brittania	-	164,000	-	-	-	164,000	-	-	-	-	-	-
St. Vincent St. South - Redford to West Gore	-	54,000	-	-	-	-	54,000	-	-	-	-	-
Queen Street from Ontario to Brunswick	-	152,000	-	-	-	-	152,000	-	-	-	-	-
Argyle Street - St. David to Cambria	-	173,000	-	-	-	-	173,000	-	-	-	-	-
Daly Avenue, Birmingham to Worsely	-	315,000	-	-	-	-	-	315,000	-	-	-	-
Water Street from Parkview to Queen	-	166,000	-	-	-	-	-	166,000	-	-	-	-
McDonald Street Willow to Devon	-	180,000	-	-	-	-	-	-	180,000	-	-	-
Mowat Street from West Gore to Brydges	-	282,000	-	-	-	-	-	-	282,000	-	-	-
Perth Street - Downie to Borden	-	428,000	-	-	-	-	-	-	428,000	-	-	-
Laurier Street - East Gore to Norfolk	-	172,000	-	-	-	-	-	-	-	172,000	-	-
Brunswick Street - King to Romeo	-	218,000	-	-	-	-	-	-	-	218,000	-	-
Douglas Street - Huntingdon to Avondale	-	310,000	-	-	1	-	-	-	-	310,000	ı	-
Birmingham St - Cambria to Daly	-	230,000	-	ı	1	-	-	•	-	230,000	ı	-
Woods Street - Birmingham to St. Vincent	-	258,000	-	-	-	-	-	-	-	-	258,000	-
Norfolk Street Borden to Romeo	-	351,000	-	-	-	-	-	-	-	-	351,000	-
Stratford Street	-	187,000	-	-	-	-	-		-	-	187,000	-
Avon St - Avondale to McLagan	-	359,000	-	-	1	-	-	-	-	-	-	359,000
Grange Street - Waterloo to Front	-	490,000	-	-	-	-	-	-	-	-	•	490,000
Queen Street - Brunswick to Douro	-	227,000	-	-	-	-	-	-	-	-	-	227,000
Studies:	-	-	-	-	-	-	-	-	-	-	-	-
Water & Wastewater Rate Study (Wastewater Portion)	27,500	86,000	-	-	-	-	41,000	-	-	-	-	45,000
Total Capital Expenditures	1,611,500	20,702,000	1,305,000	2,210,000	1,763,000	1,522,000	2,075,000	2,263,000	2,304,000	2,371,000	2,266,000	2,623,000
Capital Financing												
Provincial/Federal Grants		-										
Development Charges Reserve Fund	-	-	-	-	-	-	-	-	-	-	-	-
Non-Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	-
Growth Related Debenture Requirements	-	-	_	-	-	-	-	_	_	-	_	_
Operating Contributions	-	_	_	-	-	-	_	_	_	-	_	_
Lifecycle Reserve Fund	_	_	_	_	-	_	_	_	_	_	_	_
Wastewater Reserve	1,611,500	20,702,000	1,305,000	2,210,000	1,763,000	1,522,000	2,075,000	2,263,000	2,304,000	2,371,000	2,266,000	2,623,000
, , , , , , , , , , , , , , , , , , ,	1,011,000	20,702,000	1,000,000	2,210,000		1,522,000		2,200,000	2,007,000	2,011,000	2,200,000	2,020,000



# Chapter 5 Overview of Expenditures and Revenues



# 5. Overview of Expenditures and Revenues

## 5.1 Water Operating Expenditures

In this report, the forecasted water budget figures (2020 to 2029) are based on the 2019 operating budgets. The costs for each component of the operating budget have been reviewed with staff to establish forecast inflationary adjustments. Most of the expenditures have been assumed to increase at a rate of 2.0% annually. Operating expenditures that involve utilities, fuels, chemicals and hydro have been inflated by 5.0% annually. Also, expenditures relating to existing debentures have been included for recovery over the forecast period.

In addition, contributions to capital reserve funds have been included. The water capital reserve transfers are used to fund the water capital program identified in Chapter 2, with additional contributions being made annually in order to fund the replacement of existing water infrastructure as identified in section 3.2.

#### 5.2 Water Operating Revenues

The City's fixed revenue sources are generated primarily from base charges, user fees, and other recoverables to help contribute towards operating expenditures. The water base charges are calculated to increase by 17% in 2020, increase by 9% annually from 2021 to 2023, and subsequent increases of 4% per year for the remainder of the forecast period (2024 to 2029). The base charges are further discussed in section 6.5 of this study.

Note that the operating revenue presented herein represents the fixed component of the total operating revenue. The shortfall of the fixed revenue from the operating expenditures is what is used to calculate the recovery from the water volume rates, which is presented in Chapter 7. Table 5-1 provides for the water operating budget for the City.



Table 5-1
Operating Budget Forecast – Water (inflated \$)

	Budget					Foi	ecast				
Description Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Operating Costs											
4300 Water Admin G-350-4300-2100 F.T. SALARIES & WAGES	336,880	_	-	_	_	_	_	_	_	_	_
G-350-4300-2110 P.T. SALARIES & WAGES	-	-	-	-	-	-	-	-	-	-	-
G-350-4300-2500 F.T. BENEFITS G-350-4300-2510 P.T. BENEFITS	115,330	21,950 -	22,400	22,800	23,300	23,800	24,300	24,800 -	25,300	25,800 -	26,300
G-350-4300-2700 OTHER PAYROLL EXPENSES	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
G-350-4300-3010 CLOTHING G-350-4300-3050 MATERIALS	5,100 5,000	7,000 3,500	7,100 3,600	7,200 3,700	7,300 3,800	7,400 3,900	7,500 4,000	7,700 4,100	7,900 4,200	8,100 4,300	8,300 4,400
G-350-4300-3070 OFFICE SUPPLIES AND PAPER	1,200	800	800	800	800	800	800	800	800	800	800
G-350-4300-3090 PHOTOCOPIER EXPENSE G-350-4300-3100 POSTAGE	280 1,000	300 500	300 500	300 500	300 500	300 500	300 500	300 500	300 500	300 500	300 500
G-350-4300-3110 PRINTING	900	700	700	700	700	700	700	700	700	700	700
G-350-4300-3120 MEALS & MEETING COSTS G-350-4300-4020 SERVICE CONTRACTS	220 3,500	300 3,500	300 3,600	300 3,700	300 3,800	300 3,900	300 4,000	300 4,100	300 4,200	300 4,300	300 4,400
G-350-4300-4040 CONSULTANTS G-350-4300-4050 CONTRACTORS	5,100 545,000	5,100 545,000	5,200 555,900	5,300 567,000	5,400 578,300	5,500 589,900	5,600 601,700	5,700 613,700	5,800 626,000	5,900 638,500	6,000 651,300
G-350-4300-4060 COURIER/FREIGHT	100	100	100	100	100	100	100	100	100	100	100
G-350-4300-4090 LEGAL G-350-4300-4097 MEMBERSHIPS	1,000 3,830	1,000 5,400	1,000 5,500	1,000 5,600	1,000 5,700	1,000 5,800	1,000 5,900	1,000 6,000	1,000 6,100	1,000 6,200	1,000 6,300
G-350-4300-4100 SERVICES - OTHER	-	-	-	-	-	-	-	-	-	-	-
G-350-4300-4101 CONSERVATION AUTHORITY LEVY G-350-4300-4107 BUILDING MAINTENANCE	417,600	438,500	447,300 -	456,200 -	465,300	474,600	484,100	493,800	503,700	513,800 -	524,100
G-350-4300-4110 TELEPHONE - BASIC	5,290	2,060	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100
G-350-4300-4120 TELEPHONE - CELL PHONES G-350-4300-4142 TRAINING - EXPENSES	8,000 35,000	7,680 36,000	7,800 36,700	8,000 37,400	8,200 38,100	8,400 38,900	8,600 39,700	8,800 40,500	9,000 41,300	9,200 42,100	9,400 42,900
G-350-4300-7850 CITY OWNED RENTAL EXPENSE	1,250	-	-	-	-	-	-	-	-	-	-
G-350-4300-7900 INTERFUNC I IONAL TRANSFERS G-350-4300-9010 OFFICE EQUIPMENT AND FURNISHINGS	189,500 500	193,300 1,000	197,200 1,000	201,100 1,000	205,100 1,000	209,200 1,000	213,400 1,000	217,700 1,000	222,100 1,000	226,500 1,000	231,000 1,000
G-350-4300-9040 TOOLS & SMALL EQUIPMENT	5,000	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900
<b>4325 WATER SUPPLY</b> G-350-4325-2100 F.T. SALARIES & WAGES	154,160	_	-	-	-	-	-	-	-	-	-
G-350-4325-2110 P.T. SALARIES & WAGES	2,180	-	-	-	-	-	-	-	-	-	-
G-350-4325-2500 F.T. BENEFITS G-350-4325-2510 P.T. BENEFITS	42,860 180	-	-	-	-	-	-	-	-	-	-
G-350-4325-3040 HYDRO	325,000	340,750	357,800	375,700	394,500	414,200	434,900	456,600	479,400	503,400	528,600
G-350-4325-3050 MATERIALS G-350-4325-3120 MEALS & MEETING COSTS	120,000 500	120,000 500	126,000 500	132,300 500	138,900 500	145,800 500	153,100 500	160,800 500	168,800 500	177,200 500	186,100 500
G-350-4325-3140 R & M - BUILDINGS & EQUIP (EXCL	15,000	15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700
VEHICLES) G-350-4325-3180 VEHICLE - FUEL	2,000	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900
G-350-4325-4020 SERVICE CONTRACTS	213,000	230,000	234,600	239,300	244,100	249,000	254,000	259,100	264,300	269,600	275,000
G-350-4325-4040 CONSULTANTS G-350-4325-4050 CONTRACTORS	15,000 30,000	30,000 30,000	30,600 30,600	31,200 31,200	31,800 31,800	32,400 32,400	33,000 33,000	33,700 33,700	34,400 34,400	35,100 35,100	35,800 35,800
G-350-4325-4060 COURIER/FREIGHT G-350-4325-4100 SERVICES - OTHER	200	200	200	200	200	200	200	200	200	200	200
G-350-4325-4110 SERVICES - OTHER G-350-4325-4110 TELEPHONE - BASIC	5,290	-	-	-	-	-	-	-	-	-	-
G-350-4325-7850 CITY OWNED RENTAL EXPENSE G-350-4325-7900 INTERFUNCTIONAL TRANSFERS	35,000	35,000	35,700	36,400	37,100	37,800	38,600	39,400	40,200	41,000	41,800
4350 WATER DISTRIBUTION	-		-	-	-	_	-	-	-	-	-
G-350-4350-2100 F.T. SALARIES & WAGES G-350-4350-2110 P.T. SALARIES & WAGES	462,480 6,550	971,620 9,360	991,100 9,500	1,010,900 9,700	1,031,100 9,900	1,051,700 10,100	1,072,700 10,300	1,094,200 10,500	1,116,100 10,700	1,138,400 10,900	1,161,200 11,100
G-350-4350-2110 P.T. SALARIES & WAGES G-350-4350-2500 F.T. BENEFITS	128,590	267,450	272,800	278,300	283,900	289,600	295,400	301,300	307,300	313,400	319,700
G-350-4350-2510 P.T. BENEFITS G-350-4350-3040 HYDRO	550 10,080	800 9,000	800 9,500	800 10,000	800 10,500	800 11,000	800 11,600	800 12,200	800 12,800	800 13,400	800 14,100
G-350-4350-3050 MATERIALS	230,000	230,000	241,500	253,600	266,300	279,600	293,600	308,300	323,700	339,900	356,900
G-350-4350-3080 MISCELLANEOUS G-350-4350-3100 POSTAGE	-	-	-	-	-	-	-	-	-	-	-
G-350-4350-3120 MEALS & MEETING COSTS	820	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
G-350-4350-3180 VEHICLE - FUEL G-350-4350-3190 VEHICLE - REPAIRS & EXPENSES	35,000 20,000	35,000 30,000	36,800 30,600	38,600 31,200	40,500 31,800	42,500 32,400	44,600 33,000	46,800 33,700	49,100 34,400	51,600 35,100	54,200 35,800
G-350-4350-4020 SERVICE CONTRACTS	63,000	78,500	80,100	81,700	83,300	85,000	86,700	88,400	90,200	92,000	93,800
G-350-4350-4040 CONSUTANTS G-350-4350-4050 CONTRACTORS	60,000	5,000 117,000	5,100 119,300	5,200 121,700	5,300 124,100	5,400 126,600	5,500 129,100	5,600 131,700	5,700 134,300	5,800 137,000	5,900 139,700
G-350-4350-4060 COURIER/FREIGHT	-	-	-	-	-	-	-	-	-	-	-
G-350-4350-4095 MAINTENANCE CONTRACTS G-350-4350-4100 SERVICES - OTHER	5,000	-	-	-	-	-	-	-	-	-	-
G-350-4350-4142 TRAINING EXPENSES	-	-	-	-	-	-	-	-	-	-	-
G-350-4350-5040 RENTAL OF BLDG MACHINERY & EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-
G-350-4350-7850 CITY OWNED RENTAL EXPENSE	129,500	-	-	-	-	-	-	-	-	-	-
G-350-4350-7900 INTERFUNCTIONAL TRANSFERS G-350-4350-9040 TOOLS & SMALL EQUIPMENT	95,300 -	96,730	98,700 -	100,700	102,700	104,800	106,900	109,000	111,200	113,400 -	115,700
Sub Total Operating	3,895,820	3,935,600	4,036,400	4,140,000	4,246,700	4,356,900	4,470,600	4,588,200	4,709,400	4,834,300	4,963,400
Capital-Related Existing Debt (Principal) - Growth Related											
Existing Debt (Interest) - Growth Related											
New Growth Related Debt (Principal) New Growth Related Debt (Interest)		] -	-	-	-		-	-		-	-
Existing Debt (Principal) - Non-Growth Related Existing Debt (Interest) - Non-Growth Related	3,151	3,234	3,320 99	586 15							
New Non-Growth Related Debt (Principal)	260	181 -	99	15 -	-	_	-	_	_	_	-
New Non-Growth Related Debt (Interest) Transfer to Capital		-	-	-	-	-	-	-	-	-	-
Transfer to Stabilization Reserve	290,129	l -	-	_	-		-	_	_	_	-
Transfer to Capital Reserve Fund Sub Total Capital Related	733,420 <b>1.026.960</b>	975,489 <b>978.904</b>	1,168,541 1,171,960	1,371,222 1,371,823	1,578,989 <b>1,578,989</b>	1,713,053 1,713,053	1,889,979 <b>1.889.979</b>	2,066,592 <b>2,066,592</b>	2,243,168 <b>2,243,168</b>	2,425,680 <b>2,425,680</b>	2,613,990 <b>2,613,990</b>
Total Expenditures	4,922,780	4,914,504		5,511,823	5,825,689	6,069,953	6,360,579	6,654,792	6,952,568	7,259,980	7,577,390
Revenues Base Charge	950,244	1.103.856	1,228,365	1,355,013	1,484,271	1,535,793	1,625,187	1,713,525	1,800,903	1,888,974	1,977,723
G-350-4300-1130 ONTARIO GRANTS	- 550,244		1,220,300 -	- 1,000,013 -	1,404,∠/1	- 1,000,793	- 1,020,187	- 1,113,020	- 1,000,903	1,000,9 <i>1</i> 4 -	- 1,311,123
G-350-4300-1770 RECOVERABLES G-350-4325-1405 USER FEES	- 2,400	-	-	-	-	-	-	-	-	-	-
G-350-4325-1470 RENTALS & LEASES	2, <del>4</del> 00 -	] -	-	-	-	-	-	-	-	-	-
G-350-4325-1770 RECOVERABLES G-350-4350-1405 USER FEES	- 2,220	- 2,300	- 2,300	- 2,300	2,300	- 2,300	- 2,300	- 2,300	- 2,300	- 2,300	- 2,300
G-350-4350-1470 RENTALS & LEASES		2,300 -	2,3UU -	2,300 -		2,300	2,300	2,3UU -	2,300	2,300	∠,300 -
G-350-4350-1765 GAIN ON DISPOSAL OF ASSETS G-350-4350-1770 RECOVERABLES	- 6,000	- 8,000	- 8,000	- 8,000	- 8,000	- 8,000	- 8,000	- 8,000	- 8,000	- 8,000	- 8,000
G-350-4350-1770 RECOVERABLES G-350-4350-1850 CITY OWN RENTAL REVENUE	170,000	6,000	6,000	6,000	0,000	0,000	0,000	0,000	0,000	0,000	6,000
Other Revenue Contributions from Development Charges Reserve Fund		<u> </u>	<del>-</del>	- -	-	-	-	-	-	-	-
Contributions from Reserves / Reserve Funds	-	-	-	-	-	-	-	-	-	-	-
Total Operating Revenue Water Billing Recovery - Operating	1,130,864	1,114,156		1,365,313		1,546,093	1,635,487	1,723,825 4,930,967	1,811,203	1,899,274	1,988,023
water billing Recovery - Operating	3,791,916	ა,იიი,ა48	3,969,695	4,140,510	4,331,118	4,523,860	4,725,092	4,930,967	5,141,365	5,360,706	5,589,367



# **5.3 Wastewater Operating Expenditures**

Similar to water, the forecasted wastewater budget figures (2020 to 2029) are based on the 2019 operating budgets. The costs for each component of the operating budget have been reviewed with staff to establish forecast inflationary adjustments. Most of the expenditures have been assumed to increase at a rate of 2.0% annually. Operating expenditures that involve utilities, fuels, chemicals and hydro have been inflated by 5.0% annually. Also, expenditures relating to existing debentures have been included for recovery over the forecast period.

In addition, contributions to capital reserve funds have been included. The wastewater capital reserve transfers are used to fund the wastewater capital program identified in Chapter 2, with additional contributions being made annually in order to fund the replacement of existing wastewater infrastructure as identified in section 3.2.

#### 5.4 Wastewater Operating Revenues

The City's fixed revenue sources are generated primarily from base charges, rental revenue and other recoverables to help contribute towards operating expenditures. The rental revenue has been assumed to end in 2020, while other recoverables are expected to remain constant throughout the forecast period. The wastewater base charges are calculated to increase by 17% in 2020, with subsequent increases of an average of 10% per year over the forecast period. The base charges are further discussed in section 6.5 of this study.

Note that the operating revenue presented herein represents the fixed component of the total operating revenue. The shortfall of the fixed revenue from the operating expenditures is what is used to calculate the recovery from the wastewater volume rates, which is presented in Chapter 7. Table 5-2 outlines the wastewater operating budget for the City.



Table 5-2 Operating Budget Forecast – Wastewater (inflated \$)

	Budget					Fore	ecast				
Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Expenditures											
Operating Costs 4100 SANITARY ADMIN											
G-330-4100-2100 F.T. SALARIES & WAGES	47,900	_	_	_	_	_	_	_	_	_	-
G-330-4100-2110 P.T. SALARIES & WAGES	-	-	-	-	-	-	-	-	-	-	-
G-330-4100-2500 F.T. BENEFITS	19,600	-	-	-	-	-	-	-	-	-	-
G-330-4100-2510 P.T. BENEFITS	-	-	-	-	-	-	-	-	-	-	-
G-330-4100-2700 OTHER PAYROLL EXPENSES	300	300	300	300	300	300	300	300	300	300	300
G-330-4100-3010 CLOTHING G-330-4100-3050 MATERIALS	1,500 2,000	2,400 2,000	2,400 2,000	2,400 2,000	2,400 2,000	2,400 2,000	2,400 2,000	2,400 2,000	2,400 2,000	2,400 2,000	2,400 2,000
G-330-4100-4020 SERVICE CONTRACTS	4,000	4,400	4,500	4,600	4,700	4,800	4,900	5,000	5,100	5,200	5,300
G-330-4100-4050 CONTRACTORS	1,500	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900
G-330-4100-4097 MEMBERSHIPS	900	900	900	900	900	900	900	900	900	900	900
G-330-4100-4100 SERVICES - OTHER		-	-	-	-	-	-	-	-	-	-
G-330-4100-4110 TELEPHONE - BASIC G-330-4100-4142 TRAINING - EXPENSES	1,760 12,000	12,000	12,200	12,400	12,600	- 12,900	13,200	13,500	13,800	- 14,100	- 14,400
G-330-4100-4142 TRAINING - EXPENSES G-330-4100-7850 CITY OWNED RENTAL EXPENSE	1,500	12,000	12,200	12,400	12,000	12,900	13,200	-	13,000	14,100	14,400
G-330-4100-7900 INTERFUNCTIONAL TRANSFER	-	10,200	10,400	10,600	10,800	11,000	11,200	11,400	11,600	11,800	12,000
G-330-4100-9040 TOOLS & SMALL EQUIPMENT	4,000	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900
4125 SANITARY TREAT											
G-330-4125-2100 F.T. SALARIES & WAGES	-	-	-	-	-	-	-	-	-	-	-
G-330-4125-2500 F.T. BENEFITS G 330 4125 3040 HYDRO	- 499,920	500,000	525,000	551,300	578,900	607,800	638,200	- 670,100	703,600	738,800	- 775,700
G-330-4125-3120 MEETING COSTS	+33,3∠U -	-	-	-		-	-	-			
G-330-4125-4020 SERVICE CONTRACTS	25,000	25,000	25,500	26,000	26,500	27,000	27,500	28,100	28,700	29,300	29,900
G-330-4125-4040 CONSULTANTS	-	25,000	25,500	26,000	26,500	27,000	27,500	28,100	28,700	29,300	29,900
G-330-4125-4050 CONTRACTORS - OCWA	978,600	998,100	1,018,100	1,038,500	1,059,300	1,080,500	1,102,100	1,124,100	1,146,600	1,169,500	1,192,900
G-330-4125-4090 LEGAL G-330-4125-4095 MAINTENANCE CONTRACTS	5,000	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900
G-330-4125-4100 SERVICES - OTHER	-	-	-	-				-	-	-	-
G-330-4125-7850 CITY OWNED RENTAL EXPENSE	-	-	-	-	-	-	-	-	-	-	-
4150 SANITARY COLLECT											
G-330-4150-2100 F.T. SALARIES & WAGES	308,140	323,950	330,400	337,000	343,700	350,600	357,600	364,800	372,100	379,500	387,100
G-330-4150-2110 P.T. SALARIES & WAGES	-	-	- 04.000	-	-	-	-	-	-	-	-
G-330-4150-2500 F.T. BENEFITS G-330-4150-2510 P.T. BENEFITS	84,270	82,940	84,600	86,300	88,000	89,800	91,600	93,400	95,300	97,200	99,100
G-330-4150-3040 HYDRO	48,300	50,710	53,200	55,900	58,700	61,600	64,700	67,900	71,300	74,900	78,600
G-330-4150-3045 WATER / SEWAGE	400	400	400	400	400	400	400	400	400	400	400
G-330-4150-3050 MATERIALS	30,000	50,000	51,000	52,000	53,000	54,100	55,200	56,300	57,400	58,500	59,700
G-330-4150-3080 MISCELLANEOUS	-	-	-	-	-	-	-	-	-	-	-
G-330-4150-3140 R & M - BUILDINGS & EQUIP (EXCL VEH	35,000	15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700
G-330-4150-3180 VEHICLE - FUEL G-330-4150-3190 VEHICLE - REPAIRS & EXPENSES	12,000 30,000	18,000 40,000	18,900 40,800	19,800 41,600	20,800 42,400	21,800 43,200	22,900 44,100	24,000 45,000	25,200 45,900	26,500 46,800	27,800 47,700
G-330-4150-4020 SERVICE CONTRACTS	50,000	56,500	57,600	58,800	60,000	61,200	62,400	63,600	64,900	66,200	67,500
G-330-4150-4040 CONSULTANTS	8,000	8,000	8,200	8,400	8,600	8,800	9,000	9,200	9,400	9,600	9,800
G-330-4150-4050 CONTRACTORS	45,000	87,500	89,300	91,100	92,900	94,800	96,700	98,600	100,600	102,600	104,700
G-330-4150-4060 COURIER/FREIGHT	50	200	200	200	200	200	200	200	200	200	200
G-330-4150-4100 SERVICES - OTHER	4.700	-	-	-	-	-	-	-	-	-	-
G-330-4150-4110 TELEPHONE - BASIC G-330-4150-4120 TELEPHONE - CELL PHONES	1,760 1,920	1,620	1,700	1,700	- 1,700	1,700	1,700	1,700	- 1,700	1,700	1,700
G-330-4150-5040 RENTAL OF BLDG, MACHINERY &	.,020	.,020	.,. 00	1,7.00		.,. 00	1,7.00	1,1.00	1,7.00	.,. 00	.,. 55
EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-
G-330-4150-7850 CITY OWNED RENTAL EXPENSE	59,000	-	-	-	-	-	-	-	-	-	-
G-330-4150-7900 INTERFUNCTIONAL TRANSFERS	66,000	67,300	68,600	70,000	71,400	72,800	74,300	75,800	77,300	78,800	80,400
G-330-4150-9040 TOOLS & SMALL EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-
Sub Total Operating	2,385,320	2,397,420	2,462,300	2,529,400	2,598,500	2,670,000	2,744,000	2,820,400	2,899,600	2,981,300	3,065,800
Capital-Related	,,==	, . , ,	, , , , , , , , , , , , , , , , , , , ,	, , , , ,	, , , , , , , ,	, , , , , ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , ,	, , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, ,
Existing Debt (Principal) - Growth Related											
Existing Debt (Interest) - Growth Related											
New Growth Related Debt (Principal) New Growth Related Debt (Interest)		-	-	-	· -	-	-	-	-	-	-
Existing Debt (Principal) - Non-Growth Related	2,088,307	2,092,440	2,432,779	2,340,479	2,321,799	2,323,219	2,324,678	2,326,177	2,248,596	2,250,179	1,962,600
Existing Debt (Interest) - Non-Growth Related	684,689	630,289	755,220	688,643	624,399	560,626	496,816	432,967	369,079	307,556	245,991
New Non-Growth Related Debt (Principal)	,	-	- 1	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Interest)		-	-	-	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-	-	-	-	-
Transfer to Stabilization Reserve Transfer to Capital Reserve Fund	2,356,197	2,249,143	1,982,600	2,340,534	2,654,128	2,986,188	3,319,045	3,683,178	4,117,517	4,514,255	5,200,025
Sub Total Capital Related	5,129,194	4,971,872	5,170,599	5,369,656	5,600,326	5,870,033	6,140,538	6,442,322	6,735,192	7,071,990	7,408,617
Total Expenditures	7,514,514	7,369,292	7,632,899	7,899,056	8,198,826	8,540,033	8,884,538	9,262,722	9,634,792	10,053,290	10,474,417
Revenues											
Base Charge	900,000	1,053,612	1,174,404	1,296,726	1,420,578	1,584,609	1,750,680	1,955,400	2,159,355	2,404,254	2,650,989
G-330-4125-1770 RECOVERABLES	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
G-330-4150-1405 USER FEES G-330-4150-1770 RECOVERABLES	- 10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
G-330-4150-1770 RECOVERABLES G-330-4150-1850 CITY OWN RENTAL REVENUE	100,000	-	-	-	- 10,000	-	- 10,000	-	-	-	-
Other Revenue	11,000		-	-	-	-	-	-	-	-	-
Contributions from Development Charges Reserve Fund	-	-	-	-	-	-	-	-	-	-	-
Contributions from Reserves / Reserve Funds	212,800	-	-	-	-	-	-	-	-	-	-
Total Operating Revenue	1,232,800	1,073,612	1,194,404	1,316,726	1,440,578	1,604,609	1,770,680	1,975,400	2,179,355	2,424,254	2,670,989
Wastewater Billing Recovery - Operating	6,281,714	6,295,680	6,438,495	6,582,330	6,758,248	6,935,424	7,113,858	7,287,322	7,455,437	7,629,036	7,803,428



# Chapter 6 Pricing Structures

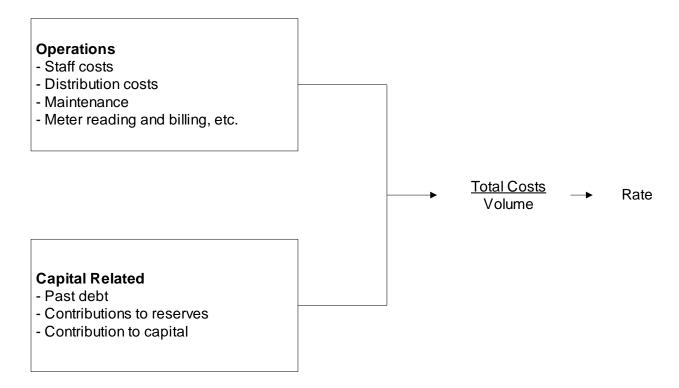


# 6. Pricing Structures

#### 6.1 Introduction

Rates, in their simplest form, can be defined as total costs to maintain the utility function divided by the total expected volume to be generated for the period. Total costs are usually a combination of operating costs (e.g. staff costs, distribution costs, maintenance, administration, etc.) and capital-related costs (e.g. past debt to finance capital projects, transfers to reserves to finance future expenditures, etc.). The schematic below provides a simplified illustration of the rate calculation for water.

#### "Annual Costs"



These operating and capital expenditures will vary over time. Examples of factors that will affect the expenditures over time are provided below.

#### **Operations**

- Inflation;
- Increased maintenance as system ages; and



Changes to provincial legislation.

#### Capital Related

- New capital will be built as areas expand;
- · Replacement capital needed as system ages; and
- Financing of capital costs are a function of policy regarding reserves and direct financing from rates (pay as you go), debt and user pay methods (development charges, *Municipal Act*).

## **6.2 Alternative Pricing Structures**

Throughout Ontario, and as well, Canada, the use of pricing mechanisms varies between municipalities. The use of a particular form of pricing depends upon numerous factors, including Council preference, administrative structure, surplus/deficit system capacities, economic/demographic conditions, to name a few.

Municipalities within Ontario have two basic forms of collecting revenues for water purposes, those being through incorporation of the costs within the tax rate charged on property assessment and/or through the establishment of a specific water rate billed to the customer. Within the rate methods, there are five basic rate structures employed along with other variations:

- Flat Rate (non-metered customers);
- Constant Rate;
- Declining Block Rate;
- Increasing (or Inverted) Block Rate;
- Hump Back Block Rate; and
- Base Charges.

The definitions and general application of the various methods are as follows:

**Property Assessment:** This method incorporates the total costs of providing water into the general requisition or the assessment base of the municipality. This form of collection is a "wealth tax," as payment increases directly with the value of property owned and bears no necessary relationship to actual consumption. This form is easy to



administer as the costs to be recovered are incorporated in the calculation for all general services, normally collected through property taxes.

Flat Rate: This rate is a constant charge applicable to all customers served. The charge is calculated by dividing the total number of user households and other entities (e.g. businesses) into the costs to be recovered. This method does not recognize differences in actual consumption but provides for a uniform spreading of costs across all users. Some municipalities define users into different classes of similar consumption patterns, that is, a commercial user, residential user and industrial user, and charge a flat rate by class. Each user is then billed on a periodic basis. No meters are required to facilitate this method, but an accurate estimate of the number of users is required. This method ensures set revenue for the collection period but is not sensitive to consumption, hence may cause a shortfall or surplus of revenues collected.

**Constant Rate:** This rate is a volume-based rate, in which the consumer pays the same price per unit consumed, regardless of the volume. The price per unit is calculated by dividing the total cost of the service by the total volume used by total consumers. The bill to the consumer climbs uniformly as the consumption increases. This form of rate requires the use of meters to record the volume consumed by each user. This method closely aligns the revenue recovery with consumption. Revenue collected varies directly with the consumption volume.

**Declining Block Rates:** This rate structure charges a successively lower price for set volumes, as consumption increases through a series of "blocks." That is to say that within set volume ranges, or blocks, the charge per unit is set at one rate. Within the next volume range, the charge per unit decreases to a lower rate, and so on. Typically, the first, or first and second blocks cover residential and light commercial uses. Subsequent blocks normally are used for heavier commercial and industrial uses. This rate structure requires the use of meters to record the volume consumed by each type of user. This method requires the collection and analysis of consumption patterns by user classification to establish rates at a level which does not over or under collect revenue from rate payers.

**Increasing or Inverted Block Rates:** The increasing block rate works essentially the same way as the declining block rate, except that the price of water in successive blocks increases rather than declines. Under this method the consumer's bill rises faster with higher volumes used. This rate structure also requires the use of meters to



record the volume consumed by each user. This method requires, as with the declining block structure, the collection and analysis of consumption patterns by user classification to establish rates at a level which does not over or under collect from rate payers.

The Hump Back Rate: The hump back rate is a combination of an increasing block rate and the declining block rate. Under this method the consumer's bill rises with higher volumes used up to a certain level and then begins to fall for volumes in excess of levels set for the increasing block rate.

#### 6.3 Assessment of Alternative Pricing Structures

The adoption by a municipality or utility of any one particular pricing structure is normally a function of a variety of administrative, social, demographic and financial factors. The number of factors, and the weighting each particular factor receives, can vary between municipalities. The following is a review of some of the more prevalent factors.

#### Cost Recovery

Cost recovery is a prime factor in establishing a particular pricing structure. Costs can be loosely defined into different categories: operations, maintenance, capital, financing and administration. These costs often vary between municipalities and even within a municipality, based on consumption patterns, infrastructure age, economic growth, etc.

The pricing alternatives defined earlier can all achieve the cost recovery goal, but some do so more precisely than others. Fixed pricing structures, such as Property Assessment and Flat Rate, are established on the value of property or on the number of units present in the municipality, but do not adjust in accordance with consumption. Thus, if actual consumption for the year is greater than projected, the municipality incurs a higher cost of production, but the revenue base remains static (since it was determined at the beginning of the year), thus potentially providing a funding shortfall. Conversely, if the consumption level declines below projections, fixed pricing structures will produce more revenue than actual costs incurred.



The other pricing methods (declining block, constant rate, increasing block) are consumption-based and generally will generate revenues in proportion to actual consumption.

#### Administration

Administration is defined herein as the staffing, equipment and supplies required to support the undertaking of a particular pricing strategy. This factor not only addresses the physical tangible requirements to support the collection of the revenues, but also the intangible requirements, such as policy development.

The easiest pricing structure to support is the Property Assessment structure. As municipalities undertake the process of calculating property tax bills and the collection process for their general services, the incorporation of the water costs into this calculation would have virtually no impact on the administrative process and structure.

The Flat Rate pricing structure is relatively easy to administer as well. It is normally calculated to collect a set amount, either on a monthly, quarterly, semi-annual or annual basis, and is billed directly to the customer. The impact on administration centres mostly on the accounts receivable or billing area of the municipality, but normally requires minor additional staff or operating costs to undertake.

The three remaining methods, those being Increasing Block Rate, Constant Rate and Declining Block Rate, have a more dramatic effect on administration. These methods are dependent upon actual consumption and hence involve a major structure in place to administer. First, meters must be installed in all existing units in the municipality, and units to be subsequently built must be required to include these meters. Second, meter readings must be undertaken periodically. Hence staff must be available for this purpose or a service contract must be negotiated. Third, the billings process must be expanded to accommodate this process. Billing must be done per a defined period, requiring staff to produce the bills. Lastly, either through increased staffing or by service contract, an annual maintenance program must be set up to ensure meters are working effectively in recording consumed volumes.

The benefit derived from the installation of meters is that information on consumption patterns becomes available. This information provides benefit to administration in calculating rates which will ensure revenue recovery. Additionally, when planning what services are to be constructed in future years, the municipality or utility has documented



consumption patterns distinctive to its own situation, which can be used to project sizing of growth-related works.

#### **Equity**

Equity is always a consideration in the establishment of pricing structures, but its definition can vary depending on a municipality's circumstances and based on the subjective interpretation of those involved. For example: is the price charged to a particular class of rate payer consistent with those of a similar class in surrounding municipalities; through the pricing structure does one class of rate payer pay more than another class; should one pay based on ability to pay, or on the basis that a unit of water costs the same to supply no matter who consumes it; etc.? There are many interpretations. Equity therefore must be viewed broadly in light of many factors as part of achieving what is best for the municipality as a whole.

#### Conservation

In today's society, conservation of natural resources is increasingly being more highly valued. Controversy continuously focuses on the preservation of non-renewable resources and on the proper management of renewable resources. Conservation is also a concept which applies to a municipality facing physical limitations in the amount of water which can be supplied to an area. As well, financial constraints can encourage conservation in a municipality where the cost of providing each additional unit is increasing.

Pricing structures such as property assessment and flat rate do not, in themselves, encourage conservation. In fact, depending on the price which is charged, they may even encourage resource "squandering," either because consumers, without the price discipline, consume water at will, or the customer wants to get his money's worth and hence adopts more liberal consumption patterns. The fundamental reason for this is that the price paid for the service bears no direct relationship to the volume consumed and hence is viewed as a "tax," instead of being viewed as the price of a purchased commodity.

The Declining Block Rate provides a <u>decreasing</u> incentive towards conservation. By creating awareness of volumes consumed, the consumer can reduce his total costs by restricting consumption; however, the incentive lessens as more water is consumed, because the marginal cost per unit declines as the consumer enters the next block



pricing range. Similarly, those whose consumption level is at the top end of a block have less incentive to reduce consumption.

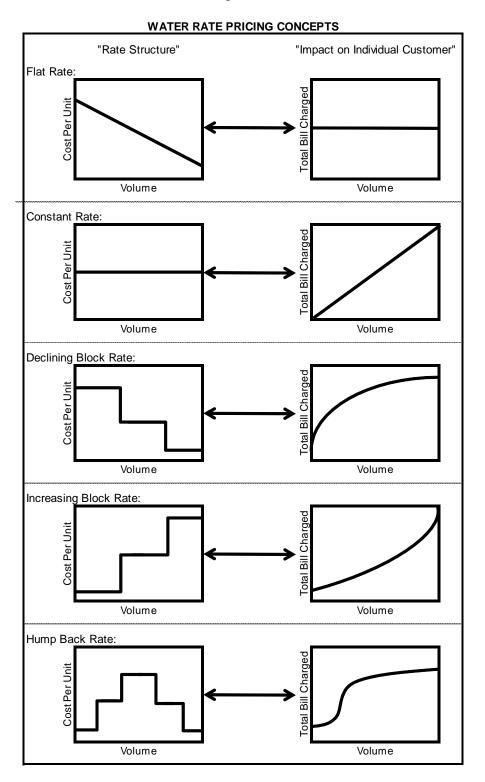
The Constant Rate structure presents the customer with a linear relationship between consumption and the cost thereof. As the consumer pays a fixed cost per unit, his bill will vary directly with the amount consumed. This method presents tangible incentive for consumers to conserve water. As metering provides direct feedback as to usage patterns and the consumer has direct control over the total amount paid for the commodity, the consumer is encouraged to use only those volumes that are reasonably required.

The Inverted Block method presents the most effective pricing method for encouraging conservation. Through this method, the price per unit consumed <u>increases</u> as total volumes consumed grow. The consumer becomes aware of consumption through metering with the charges increasing dramatically with usage. Hence, there normally is awareness that exercising control over usage can produce significant savings. This method not only encourages conservation methods, but may also penalize legitimate high-volume users if not properly structured.

Figure 6-1 provides a schematic representation of the various rate structures (note property tax as a basis for revenue recovery has not been presented for comparison, as the proportion of taxes paid varies in direct proportion to the market value of the property). The graphs on the left-hand side of the figure present the cost per unit for each additional amount of water consumed. The right-hand side of the figure presents the impact on the customer's bill as the volume of water increases. Following the schematic is a table summarizing each rate structure.



Figure 6-1





		IMPACT ON CUSTOMER
	COST PER UNIT AS	BILL AS VOLUME
RATE	VOLUME CONSUMPTION	CONSUMPTION
STRUCTURE	INCREASES	INCREASES
Flat Rate	Cost per unit decreases as more volume consumed	Bill remains the same no matter how much volume is consumed
Constant Rate	Cost per unit remains the same	Bill increases in direct proportion to consumption
Declining Block	Cost per unit decreases as threshold targets are achieved	Bill increases at a slower rate as volumes increases
Increasing Block	Cost per unit increases as threshold targets are achieved	Bill increases at a faster rate as volumes increase
Hump Back Rate	Combination of an increasing block at the lower consumption volumes and then converts to a declining block for the high	Bill increases at a faster rate at the lower consumption amounts and then slows as volumes increase

#### 6.4 Rate Structures in Ontario

In a past survey of over 170 municipalities (approximately half of the municipalities who provide water and/or sewer), all forms of rate structures are in use by Ontario municipalities. The most common rate structure is the constant rate (for metered municipalities). Most municipalities (approximately 92%) who have volume rate structures also impose a base monthly charge.

Historically, the development of a base charge often reflected either the recovery of meter reading/billing/collection costs, plus administration or those costs plus certain fixed costs (such as capital contributions or reserve contributions). More recently, many municipalities have started to establish base charges based on ensuring a secure portion of the revenue stream which does not vary with volume consumption. Selection of the quantum of the base charge is a matter of policy selected by individual municipalities.



#### 6.5 Recommended Rate Structures

Based on the foregoing, it is recommended that the same rate structures be continued for the City's water and wastewater systems. The City currently utilize a monthly base charge and 2-step decreasing block volume rate.

For the water system, the base charges are calculated to:

- increase by 17% in 2020;
- 10% average annual increases from 2021 to 2023; and
- 4% average annual increases for the remainder of the forecast period (2024 to 2029).

With these increases, the revenue collected from water base charges should reflect 25% of the operating expenditures by 2023, providing the City with a higher fixed revenue percentage (currently at 22%). This practice is to ensure that the City will have secured revenue should fluctuations in volumes occur.

The water volume rates (as calculated in Chapter 7) are anticipated to remain constant in 2020 and increases at 4% per year for the remainder of the forecast period from 2021 to 2029. In addition, the minimum monthly charge, which equals 3 times the block 1 rate, is continued to be imposed on customers that do not utilize 3 m<sup>3</sup> per month of water. The forecasted water base charges are presented in Table 6-1.

As for wastewater, the base charges for customers are calculated to

- increase by 17% in 2020; and
- increases at an average of 10% per year for the remainder of the forecast period from 2021 to 2029.

With these increases, the revenue collected from wastewater base charges should reflect 25% of the operating expenditures by 2029, providing the City with a higher fixed operating revenue percentage (currently at 14%). This practice is to ensure that the City will have secured revenue should fluctuations in volumes occur

The wastewater volume rates (as calculated in Chapter 7) are anticipated to remain constant in 2020 and increases at 2% per year for the remainder of the forecast period from 2021 to 2029. In addition, the minimum monthly charge, which equals 3 times the



block 1 rate, is continued to be imposed on customers that do not utilize 3 m³ per month of wastewater. The forecasted wastewater base charges are provided in Table 6-2.



#### Table 6-1 Water Base Charge Forecast

Water	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500
New	-	43	128	213	298	383	468	536	587	638	689
Total Customers	12,500	12,543	12,628	12,713	12,798	12,883	12,968	13,036	13,087	13,138	13,189
Total Annual Revenue	\$950,244	\$1,103,856	\$1,228,365	\$1,355,013	\$1,484,271	\$1,535,793	\$1,625,187	\$1,713,525	\$1,800,903	\$1,888,974	\$1,977,723
< 25mm (5/8") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing New	11,749 0		11,749 128	11,749 213	11,749 298	11,749 383	11,749 468	11,749 536	11,749 587	11,749 638	11,749 689
Subtotal Customers	11,749	11,792	11,877	11,962	12,047	12,132	12,217	12,285	12,336	12,387	12,438
Monthly Base Charge	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$9.50	\$10.00	\$10.50	\$11.00	\$11.50	\$12.00
Annual Base Charge	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$114.00	\$120.00	\$126.00	\$132.00	\$138.00	\$144.00
Total Annual Revenue	\$845,928	\$990,528	\$1,104,561	\$1,220,124	\$1,337,217	\$1,383,048	\$1,466,040	\$1,547,910	\$1,628,352	\$1,709,406	\$1,791,072
- (-(1))	****	****	****	****	****	****	****	****	****	****	
< 25mm (3/4") Meter Size Existing	2019 237	2020 237	2021 237	2022	2023 237	2024 237	2025 237	2026 237	2027 237	2028 237	2029 237
New	231	231	231	231	231	231	231	231	231	231	231
Subtotal Customers	237	237	237	237	237	237	237	237	237	237	237
Monthly Base Charge	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$9.50	\$10.00	\$10.50	\$11.00	\$11.50	\$12.00
Annual Base Charge	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$114.00	\$120.00	\$126.00	\$132.00	\$138.00	\$144.00
Total Annual Revenue	\$17,064	\$19,908	\$22,041	\$24,174	\$26,307	\$27,018	\$28,440	\$29,862	\$31,284	\$32,706	\$34,128
			****	****	****			****	****	****	
25mm (1") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing New	156	156	156	156	156	156	156	156	156	156	156
Subtotal Customers	156	156	156	156	156	156	156	156	156	156	156
Monthly Base Charge	\$10.00	\$11.00	\$12.00	\$13.00	\$14.25	\$14.75	\$15.25	\$15.75	\$16.50	\$17.25	\$18.00
Annual Base Charge	\$120.00	\$132.00	\$144.00	\$156.00	\$171.00	\$177.00	\$183.00	\$189.00	\$198.00	\$207.00	\$216.00
Total Annual Revenue	\$18,720	\$20,592	\$22,464	\$24,336	\$26,676	\$27,612	\$28,548	\$29,484	\$30,888	\$32,292	\$33,696
38mm (1 1/2") Meter Size	2019 155	2020 155	2021 155	2022 155	2023 155	<b>2024</b> 155	2025 155	2026 155	2027	2028 155	2029 155
Existing New	155	155	155	155	155	155	155	155	155	155	155
Subtotal Customers	155	155	155	155	155	155	155	155	155	155	155
Monthly Base Charge	\$13.00	\$14.00	\$15.25	\$16.50	\$18.00	\$18.75	\$19.50	\$20.25	\$21.00	\$21.75	\$22.50
Annual Base Charge	\$156.00	\$168.00	\$183.00	\$198.00	\$216.00	\$225.00	\$234.00	\$243.00	\$252.00	\$261.00	\$270.00
Total Annual Revenue	\$24,180	\$26,040	\$28,365	\$30,690	\$33,480	\$34,875	\$36,270	\$37,665	\$39,060	\$40,455	\$41,850
50mm (2") Meter Size Existing	2019 154	2020 154	2021 154	2022 154	2023 154	2024 154	2025 154	2026 154	2027 154	2028 154	2029 154
New	154	154	154	154	154	134	134	154	154	154	154
Subtotal Customers	154	154	154	154	154	154	154	154	154	154	154
Monthly Base Charge	\$16.00	\$17.00	\$18.50	\$20.25	\$22.00	\$23.00	\$24.00	\$25.00	\$26.00	\$27.00	\$28.00
Annual Base Charge	\$192.00	\$204.00	\$222.00	\$243.00	\$264.00	\$276.00	\$288.00	\$300.00	\$312.00	\$324.00	\$336.00
Total Annual Revenue	\$29,568	\$31,416	\$34,188	\$37,422	\$40,656	\$42,504	\$44,352	\$46,200	\$48,048	\$49,896	\$51,744
75 (011) Martin Cina	2010	2022	0004	2022	2002	2024	2025	2000	2027	2000	2022
75mm (3") Meter Size Existing	2019 27	2020 27	2021 27	2022	2023 27	2024 27	2025 27	2026 27	2027 27	2028 27	2029 27
New	21	21	21	21	21	21	21	- 21	21	21	21
Subtotal Customers	27	27	27	27	27	27	27	27	27	27	27
Monthly Base Charge	\$22.00	\$23.00	\$25.00	\$27.25	\$29.75	\$31.00	\$32.25	\$33.50	\$34.75	\$36.25	\$37.75
Annual Base Charge	\$264.00	\$276.00	\$300.00	\$327.00	\$357.00	\$372.00	\$387.00	\$402.00	\$417.00	\$435.00	\$453.00
Total Annual Revenue	\$7,128	\$7,452	\$8,100	\$8,829	\$9,639	\$10,044	\$10,449	\$10,854	\$11,259	\$11,745	\$12,231
400mm (4!) Mater Cine	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
100mm (4") Meter Size Existing	2019		2021		2023	2024	2025	2026		2028	2029
New		22			22		- 22			22	- 22
Subtotal Customers	22	22	22	22	22	22	22	22	22	22	22
Monthly Base Charge	\$29.00	\$30.00	\$32.75	\$35.75	\$39.00	\$40.50	\$42.00	\$43.75	\$45.50	\$47.25	\$49.25
Annual Base Charge	\$348.00	\$360.00	\$393.00	\$429.00	\$468.00	\$486.00	\$504.00	\$525.00	\$546.00	\$567.00	\$591.00
Total Annual Revenue	\$7,656	\$7,920	\$8,646	\$9,438	\$10,296	\$10,692	\$11,088	\$11,550	\$12,012	\$12,474	\$13,002
150mm (6") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	2019		2021			2024		2026			
New		ا ا					Ť				
Subtotal Customers	-	-	-	-	-	-	-	-	-	-	
Monthly Base Charge	\$50.00	\$51.00	\$55.50	\$60.50	\$66.00	\$68.75	\$71.50	\$74.25	\$77.25	\$80.25	\$83.50
Annual Base Charge	\$600.00	\$612.00	\$666.00	\$726.00	\$792.00	\$825.00	\$858.00	\$891.00	\$927.00	\$963.00	\$1,002.00
Total Annual Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
200mm (8") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	2019		0			0					
New											
Subtotal Customers	-	-	-	-	-	-	-	-	-	-	-
Monthly Base Charge	\$68.00	\$69.00	\$75.25	\$82.00	\$89.50	\$93.00	\$96.75	\$100.50	\$104.50	\$108.75	\$113.00
							C4 4 C4 CC		\$1,254.00	£4 20E 00	£4 256 00
Annual Base Charge	\$816.00	\$828.00	\$903.00	\$984.00	\$1,074.00	\$1,116.00	\$1,161.00	\$1,206.00		\$1,305.00	\$1,356.00
Annual Base Charge Total Annual Revenue	\$816.00 <b>\$0</b>		\$903.00 <b>\$0</b>	\$984.00 <b>\$0</b>	\$1,074.00 <b>\$0</b>	\$1,116.00 <b>\$0</b>	\$1,161.00	\$1,206.00 <b>\$0</b>	\$1,254.00	\$1,305.00	\$1,356.00



Table 6-2 Wastewater Base Charge Forecast

Wastewater	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500
New	<u> </u>	43	128	213	298	383	468	536	587	638	689
Subtotal Customers	12,500	12,543	12,628	12,713	12,798	12,883	12,968	13,036	13,087	13,138	13,189
Total Annual Revenue	\$900,000	\$1,053,612	\$1,174,404	\$1,296,726	\$1,420,578	\$1,584,609	\$1,750,680	\$1,955,400	\$2,159,355	\$2,404,254	\$2,650,989
< 25mm (5/8") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	11,749	11,749	11,749	11,749	11,749	11,749	11,749	11,749	11,749	11,749	11,749
New	0	43	128	213	298	383	468	536	587	638	689
Subtotal Customers	11,749	11,792	11,877	11,962	12,047	12,132	12,217	12,285	12,336	12,387	12,438
Monthly Base Charge	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$10.25	\$11.25	\$12.50	\$13.75	\$15.25	\$16.75
Annual Base Charge	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$123.00	\$135.00	\$150.00	\$165.00	\$183.00	\$201.00
Total Annual Revenue	\$845,928	\$990,528	\$1,104,561	\$1,220,124	\$1,337,217	\$1,492,236	\$1,649,295	\$1,842,750	\$2,035,440	\$2,266,821	\$2,500,038
< 25mm (3/4") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	2019	2020	2021	2022	2023	2024	2023	2020	2021	2020	2029
New											
Subtotal Customers	237	237	237	237	237	237	237	237	237	237	237
Monthly Base Charge	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$10.25	\$11.25	\$12.50	\$13.75	\$15.25	\$16.75
Annual Base Charge	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$123.00	\$135.00	\$150.00	\$165.00	\$183.00	\$201.00
Total Annual Revenue	\$17,064	\$19,908	\$22,041	\$24,174	\$26,307	\$29,151	\$31,995	\$35,550	\$39,105	\$43,371	\$47,637
25mm (1") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	156	156	156	156	156	156	156	156	156	156	156
New	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50
Subtotal Customers	156	156	156	156	156	156	156	156	156	156	156
Monthly Base Charge	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$10.25	\$11.25	\$12.50	\$13.75	\$15.25	\$16.75
Annual Base Charge	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$123.00	\$135.00	\$150.00	\$165.00	\$183.00	\$201.00
Total Annual Revenue	\$11,232	\$13,104	\$14,508	\$15,912	\$17,316	\$19,188	\$21,060	\$23,400	\$25,740	\$28,548	\$31,356
38mm (1 1/2") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	155	155	155	155	155	155	155	155	155	155	155
New				.00	.00				.00	.00	
Subtotal Customers	155	155	155	155	155	155	155	155	155	155	155
Monthly Base Charge	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$10.25	\$11.25	\$12.50	\$13.75	\$15.25	\$16.75
Annual Base Charge	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$123.00	\$135.00	\$150.00	\$165.00	\$183.00	\$201.00
Total Annual Revenue	\$11,160	\$13,020	\$14,415	\$15,810	\$17,205	\$19,065	\$20,925	\$23,250	\$25,575	\$28,365	\$31,155
50mm (2") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	154	154	154	154	154	154	154	154	154	154	154
New	104	104	104	104	104	104	104	104	104	104	104
Subtotal Customers	154	154	154	154	154	154	154	154	154	154	154
Monthly Base Charge	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$10.25	\$11.25	\$12.50	\$13.75	\$15.25	\$16.75
Annual Base Charge	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$123.00	\$135.00	\$150.00	\$165.00	\$183.00	\$201.00
Total Annual Revenue	\$11,088	\$12,936	\$14,322	\$15,708	\$17,094	\$18,942	\$20,790	\$23,100	\$25,410	\$28,182	\$30,954
75mm (3") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	2019	2020	2021	2022	2023	2024	2023	2020	2021	2026	2029
New											
Subtotal Customers	27	27	27	27	27	27	27	27	27	27	27
Monthly Base Charge	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$10.25	\$11.25	\$12.50	\$13.75	\$15.25	\$16.75
Annual Base Charge	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$123.00	\$135.00	\$150.00	\$165.00	\$183.00	\$201.00
Total Annual Revenue	\$1,944	\$2,268	\$2,511	\$2,754	\$2,997	\$3,321	\$3,645	\$4,050	\$4,455	\$4,941	\$5,427
100mm (4") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	2019	2020	2021	2022	2023	2024	2023	2020	2021	2020	2029
New											
Subtotal Customers	22	22	22	22	22	22	22	22	22	22	22
Monthly Base Charge	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$10.25	\$11.25	\$12.50	\$13.75	\$15.25	\$16.75
Annual Base Charge	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$123.00	\$135.00	\$150.00	\$165.00	\$183.00	\$201.00
Total Annual Revenue	\$1,584	\$1,848	\$2,046	\$2,244	\$2,442	\$2,706	\$2,970	\$3,300	\$3,630	\$4,026	\$4,422
150mm (6") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	0		0			0	0	0	0		0
New											
Subtotal Customers	-	-	-	-	-	-	-	-	-	-	-
Monthly Base Charge	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$10.25	\$11.25	\$12.50	\$13.75	\$15.25	\$16.75
Annual Base Charge	\$72.00 <b>\$0</b>	\$84.00	\$93.00	\$102.00	\$111.00	\$123.00	\$135.00	\$150.00	\$165.00	\$183.00	\$201.00
Total Annual Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
200mm (8") Meter Size	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Existing	0		0			0	0		0		
New											
Subtotal Customers	-	-	-	-	-	-	-	-	-	-	-
Monthly Base Charge Annual Base Charge	\$6.00 \$72.00	\$7.00 \$84.00	\$7.75 \$93.00	\$8.50 \$102.00	\$9.25 \$111.00	\$10.25 \$123.00	\$11.25 \$135.00	\$12.50 \$150.00	\$13.75 \$165.00	\$15.25 \$183.00	\$16.75 \$201.00
									a 165 00	5 183 00	5/01/00
Total Annual Revenue	\$0	\$0	\$0	\$0	\$111.00	\$125.00	\$133.00	\$130.00	\$0	\$0	\$0



## Chapter 7

Analysis of Water and Wastewater Rates and Policy Matters



### 7. Analysis of Water and Wastewater Rates and Policy Matters

#### 7.1 Introduction

To summarize the analysis undertaken thus far, Chapter 2 reviewed capital-related issues and responds to the provincial directives to maintain and upgrade infrastructure to required levels. Chapter 4 provided a review of capital financing options to which water and wastewater reserve contributions will be the predominant basis for financing future capital replacement. Chapter 5 established the 10-year operating forecast of expenditures including an annual capital reserve contribution. The base charge revenues (identified in Chapter 6) are to ensure that fixed costs are recovered regardless of the amount of volume used by customers. This chapter will provide for the calculation of the decreasing block volume rates over the forecast period. These calculations will be based on the net operating expenditures (the variable costs) provided in Chapter 5, divided by the water consumption forecast and wastewater volumes provided in section 1.8.

#### 7.2 Water Rates

Based on the discussion of rate structures provided in section 6.5 and the recommendation to continue with the present structures, the rates are calculated by taking the net recoverable amounts from Table 5-1 (the product of total expenditures plus lifecycle costs less non-rate revenues and deduct the base charge amounts provided in section 6.5) and completes the calculation by dividing them by the volumes resulting in the forecasted rates. This results in a water volume rate that is calculated to remain constant in 2020 and increases by 4% per year in subsequent years. The relationship of the decreasing block volume rates is assumed to continue, with block 1 being imposed on the first 3 m³ per month, while usage over 3m³ are subject to block 2.

Detailed calculations of the volume rates are provided in Appendix C water system. A summary of the recommended base charge and decreasing block volume rates for the system, along with the total annual bill for an average residential user who consumes 140 m<sup>3</sup> per year are presented in Table 7-1.



Table 7-1 Water Bill Forecast – Based on 140 m³ of usage and a  $\frac{5}{4}$ " or  $\frac{3}{4}$ " meter

Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Monthly Base Rate	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$9.50	\$10.00	\$10.50	\$11.00	\$11.50	\$12.00
Block 1 Rate (first 3m <sup>3</sup> per month)	\$2.50	\$2.50	\$2.60	\$2.70	\$2.81	\$2.92	\$3.04	\$3.16	\$3.29	\$3.42	\$3.56
Block 2 Rate (over 3m³ per month)	\$1.02	\$1.02	\$1.06	\$1.10	\$1.15	\$1.19	\$1.24	\$1.29	\$1.34	\$1.40	\$1.45
Annual Base Rate Bill	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$114.00	\$120.00	\$126.00	\$132.00	\$138.00	\$144.00
Block 1 Volume (first 3m <sup>3</sup> per month)	36	36	36	36	36	36	36	36	36	36	36
Block 2 Volume (over 3m <sup>3</sup> per month)	104	104	104	104	104	104	104	104	104	104	104
Annual Volume Bill	\$196.08	\$196.08	\$203.92	\$212.08	\$220.56	\$229.39	\$238.56	\$248.10	\$258.03	\$268.35	\$279.08
Total Annual Bill	\$268.08	\$280.08	\$296.92	\$314.08	\$331.56	\$343.39	\$358.56	\$374.10	\$390.03	\$406.35	\$423.08
%Increase - Base Rate		17%	11%	10%	9%	3%	5%	5%	5%	5%	4%
%Increase - Volume Rate		0%	4%	4%	4%	4%	4%	4%	4%	4%	4%
%Increase - Total Annual Bill		4%	6%	6%	6%	4%	4%	4%	4%	4%	4%



#### 7.3 Wastewater Rates

Similar to water, the calculation of the wastewater rates are calculated by taking the net recoverable amounts from Table 5-2 (the product of total expenditures plus lifecycle costs less non-rate revenues and deduct the base charge amounts provided in section 6.5) and completes the calculation by dividing them by the volumes resulting in the forecasted rates. Detailed calculations are provided in Appendix D.

This results in a wastewater volume rate that is calculated to remain constant in 2020 and increases by 2% per year in subsequent years. The relationship of the decreasing block volume rates is assumed to continue, with block 1 being imposed on the first 3 m<sup>3</sup> per month, while usage over 3 m<sup>3</sup> are subject to block 2.

Table 7-2 summarizes the recommended volume rates for wastewater and provides the average annual bill for a residential customer.



Table 7-2 Wastewater Bill Forecast – Based on 140 m $^3$  of usage and a  $^5$ %" or  $^3$ 4" meter

Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Monthly Base Rate	\$6.00	\$7.00	\$7.75	\$8.50	\$9.25	\$10.25	\$11.25	\$12.50	\$13.75	\$15.25	\$16.75
Block 1 Rate (first 3m <sup>3</sup> per month)	\$4.14	\$4.14	\$4.22	\$4.30	\$4.39	\$4.48	\$4.57	\$4.66	\$4.75	\$4.85	\$4.95
Block 2 Rate (over 3m³ per month)	\$1.69	\$1.69	\$1.72	\$1.75	\$1.79	\$1.83	\$1.87	\$1.91	\$1.95	\$1.99	\$2.03
Annual Base Rate Bill	\$72.00	\$84.00	\$93.00	\$102.00	\$111.00	\$123.00	\$135.00	\$150.00	\$165.00	\$183.00	\$201.00
Block 1 Volume (first 3m <sup>3</sup> per month)	36	36	36	36	36	36	36	36	36	36	36
Block 2 Volume (over 3m <sup>3</sup> per month)	104	104	104	104	104	104	104	104	104	104	104
Annual Volume Bill	\$324.80	\$324.80	\$330.80	\$336.80	\$344.20	\$351.60	\$359.00	\$366.40	\$373.80	\$381.56	\$389.32
Total Annual Bill	\$396.80	\$408.80	\$423.80	\$438.80	\$455.20	\$474.60	\$494.00	\$516.40	\$538.80	\$564.56	\$590.32
%Increase - Base Rate		17%	11%	10%	9%	11%	10%	11%	10%	11%	10%
%Increase - Volume Rate		0%	2%	2%	2%	2%	2%	2%	2%	2%	2%
% Increase - Total Annual Bill		3%	4%	4%	4%	4%	4%	5%	4%	5%	5%



# Chapter 8 Recommendations



#### 8. Recommendations

As presented within this report, capital and operating expenditures have been identified and forecast the 2020 to 2029 period for water and wastewater services.

Based upon the foregoing, the following recommendations are identified for consideration by Council:

- 1. That Council provide for the recovery of all water and wastewater costs through full cost recovery rates.
- 2. That Council consider the Capital Plan for water and wastewater as provided in Tables 2-1 and 2-2 and the associated Capital Financing Plan as set out in Tables 4-1 and 4-2.
- 3. That Council consider the base charges provided in Table 6-1 for water and Table 6-2 for wastewater.
- 4. That Council consider the 2-step decreasing block volume rates for water and wastewater as provided in Tables 7-1 and 7-2 respectively.



## Appendices



# Appendix A Water System Inventory Data



#### Table A-1 City of Stratford Water Facilities

Item	Location	Year Installed	Estimated Life	Replacement Year	Replacement Cost	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Pump House	Chestnut Pump House	1956	50	2019	950,427		suggested for 10 year capital forecast	950,427
Pump House	Dunn Pump House	1985	50	2035	950,427	16	·	-
Pump House	Lorne Pump House	1978	50	2028	950,427		suggested for 10 year capital forecast	950,427
Pump House	Morington Pump House	1961	50	2019	950,427	0	suggested for 10 year capital forecast	950,427
Pump House	Mornington Pump House	1963	50	2019	14,687	0	suggested for 10 year capital forecast	14,687
Pump House	O'Loane Pump House	1989	50	2039	950,427	20	,	-
Pump House	Romeo St N	1968	50	2019	950,427	0	suggested for 10 year capital forecast	950,427
Reservoir	Dufferin Tower	1967	50		1,900,854		suggested for 10 year capital forecast	1,900,854
Reservoir	Foreman Tower	1991	50		1,900,854		107,648	-
Reservoir	Romeo Reservoir	1997	50	2047	1,267,236	28	·	-
Well	Britannia St	1953	50	2019	63,362	0	suggested for 10 year capital forecast	63,362
Well	Chestnut St	1956	50	2019	1,013,789		suggested for 10 year capital forecast	1,013,789
Well	Cooper St	1953	50	2019	63,362	0	suggested for 10 year capital forecast	63,362
Well	Dunn Rd	1985	50	2035	1,013,789	16		-
Well	Gallery Stratford	1915	50	2019	1,013,789		suggested for 10 year capital forecast	1,013,789
Well	Gallery Stratford	1915	50	2019	1,013,789	0	suggested for 10 year capital forecast	1,013,789
Well	Gallery Stratford	1915	50	2019	1,013,789	0	suggested for 10 year capital forecast	1,013,789
Well	Gallery Stratford	1915	50	2019	1,013,789		suggested for 10 year capital forecast	1,013,789
Well	Golf Course	1968	50	2019	1,013,789		suggested for 10 year capital forecast	1,013,789
Well	Lorne Ave	1978	50	2028	1,013,789		suggested for 10 year capital forecast	1,013,789
Well	Mornington St	1963	50	2019	1,013,789		suggested for 10 year capital forecast	1,013,789
Well	O'Loane Ave	1989	50	2039	1,013,789	20	62,000	-
Well	Romeo Pumphouse	1952	50	2019	1,013,789	0	suggested for 10 year capital forecast	1,013,789
Well	Romeo St N	1999	50	2049	63,362	30	2,829	-
Well	Romeo St N - Moe	1963	50	2019	63,362	0	suggested for 10 year capital forecast	63,362
Well	St. Vincent St S	2008	50	2058	63,362	39	2,355	-
Total					22,254,682		437,169	15,031,436



Service   10   Valoring St					City of Stra					
Maries   100 Yournes   1	ntribution	Annual Lifecycle Contribution		Total Main Replacement	Replacement				Street	Asset
Marie   18   Paulium Awe		19-	74	7,447	2093	100	1993	27	1030 Erie St	Mains
Marie   15   Padelman Aew   48   1981   100   2081   141,121   42   5.5		16	+	<u> </u>		l 1				
Maries 19 St. Carrier Ave W		47° 500	1					1		
Marie   Marie   Ave   Marie   Marie   Marie   Marie   Marie   Ave   M		329		+						
Maries   202 Lumer Aves E		329						1 1		
Service   Description   Service   Description   Service   Description		278				l 1				
Maries		290				l				
Maries 20 Gethis 6d 44 1997 100 2071 7,788 52 2 2 2 2 2 2 2 2 3 2 3 2 3 3 3 3 3 3				+				1	Ť	
Marie   Mar		242	1							
Maries 41 Eries St		359	68		2087	100	1987	44	291 Griffith Rd	
Maries 40 Romes St N		369								
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Marine 31 Lone Ave E		143						1 1		
Maries 18 fee 9 th 31 1900 100 2000 15,16 fee 2 fee 3 th 34 1900 100 2000 15,70 2000 15,70 3 th 35 fee 8 th 31 1900 100 2000 15,70 2000 15,70 3 th 35 fee 8 th 35 1900 100 2000 15,70 2000 15,70 2000 15,70 2000 15,70 2000 15,70 2000 17,70 2000		47		14,538		1				
Maries 1816 Etnis S1		22								
Mains 818 Ene St		46								
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Mains Abort St 97 1976 100 2076 24.890 57 7 7 7 8 8 8 1 1976 100 2078 24.890 57 7 7 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		26								
Marins   Abraham Dr		718	57					87		
Mains   Albert St   277   1926   1900   2026   77,007   7   suggested for 10 year capital forces   Mains   Albert St   417   1926   100   2026   90,765   10   suggested for 10 year capital forces   Mains   Albert St   277   1928   100   2025   90,765   10   suggested for 10 year capital forces   Mains   Albert St   249   1931   100   2031   50,481   12   7,000   12   7,000   10   7,000   10   7,000   10   7,000   10   7,000   10   7,000   10   10   10   10   10   10   10	•	1,01	<u> </u>						<u> </u>	
Mains   Albert St   277   1928   100   2028   121.482   7   suggested for 10 year capital force   Albert St   277   1929   100   2029   80.785   10   suggested for 10 year capital force   Albert St   249   1931   100   2031   59.461   12   7.0.6   6.5   7.0.6		2,850				l		1		
Mains   Albert St   277   1929   100   2029   80.705   10   suggested for 10 year capital foreca   100   1				+						
Mains   Albert St		suggested for 10 year capital forecas	+							
Mains   Albert St   196   1931   100   2031   57.931   12   5.4.4		6,570				1				
Mains   Albert St   281   1998   100   2098   81,910   79   2.00		7,042				1				
Mains   Allman Arena   78   1924   100   2024   7,588   5   suggested for 10 year capital foreca   Mains   Allman Arena   27   1924   100   2024   7,588   5   suggested for 10 year capital foreca   Mains   Allman Arena   54   1951   100   2051   15,882   32   6   6   6   6   6   6   6   6   6								1		
Mains   Allman Arena   27   1924   100   2024   7.568   5   suggested for 10 year capital foreca   Mains   Allman Arena   54   1951   100   2051   15.882   32   65   65   65   65   65   65   65   6										
Mains         Arden Pk         83         1947         100         2047         24,206         28         1.1:           Mains         Arden Pk         58         1947         100         2047         17.024         28         88           Mains         Argyle St         223         1988         100         2068         67.593         49         2.1*           Mains         Argyle St         13         1979         100         2079         3.675         60         11           Mains         Arthur St         71         1953         100         2053         20,741         34         8.8           Mains         Arthur St         100         1983         100         2063         46,617         34         1,1,9           Mains         Athlone Cres         1994         100         2094         29,939         75         7.7           Mains         Athlone Cres         567         1994         100         2094         165,342         75         4,2           Mains         Avino St         10         1922         100         2022         30,765         3         suggested for 10 year capital forea           Mains         Avon St <td></td> <td>suggested for 10 year capital forecas</td> <td></td> <td>7,558</td> <td></td> <td>1</td> <td></td> <td>27</td> <td></td> <td></td>		suggested for 10 year capital forecas		7,558		1		27		
Mains         Arden Pk         58         1947         100         2047         17,024         28         88           Mains         Argyle St         232         1968         100         2068         67,593         49         2,1*           Mains         Argyle St         13         1979         100         2079         3,675         60         11           Mains         Arthur St         71         1963         100         2053         20,741         34         8           Mains         Arthur St         160         1953         100         2053         46,617         34         1.9           Mains         Ash St         103         1994         100         2094         29,939         75         75         7.7           Mains         Athlone Cres         19         1988         100         2088         5,462         70         1-1           Mains         Athone Cres         567         1994         100         2022         34,533         3         suggested for 10 year capital forea           Mains         Avon St         106         1922         100         2022         30,756         3         suggested for 10 year capital forea		67	_					1		
Mains         Argyle St         232         1968         100         2068         67,593         49         2,1**           Mains         Argyle St         13         1979         100         2079         3,675         60         11           Mains         Arthur St         71         1953         100         2053         20,741         34         8           Mains         Arthur St         160         1963         100         2053         46,617         34         1,19           Mains         Arthur St         103         1994         100         2094         29,939         75         7         4-1           Mains         Athlone Cres         19         1999         100         2098         5,462         70         4-1           Mains         Athlone Cres         567         1994         100         2094         165,342         75         4-1           Mains         Avon St         120         1922         100         2022         30,785         3         suggested for 10 year capital foreca           Mains         Avon St         173         1922         100         2022         50,289         3         suggested for 10 year capital forec		1,13				1				
Mains         Argyle St         13         1979         100         2079         3.675         60         11           Mains         Arthur St         71         1963         100         2053         20,741         34         8           Mains         Arthur St         160         1953         100         2053         46,617         34         1,9           Mains         Arthur St         160         1953         100         2094         29,939         75         7           Mains         Athlone Cres         19         1989         100         2098         5,462         70         1-1           Mains         Athlone Cres         567         1994         100         2094         165,342         75         4,2           Mains         Avon St         120         1922         100         2022         34,853         3         suggested for 10 year capital foreca           Mains         Avon St         173         1922         100         2022         30,755         3         suggested for 10 year capital foreca           Mains         Avon St         173         1922         100         2025         59,740         6         suggested for 10 year capital		2,17				l				
Mains         Arithur St         160         1983         100         2053         46,617         34         1,99           Mains         Ash St         103         1994         100         2094         29,939         75         77           Mains         Althone Cres         19         1999         100         2089         5,462         70         1-1           Mains         Athone Cres         667         1994         100         2094         165,342         75         9         4,22           Mains         Avon St         106         1922         100         20022         34,853         3         suggested for 10 year capital foreca           Mains         Avon St         106         1922         100         20022         50,289         3         suggested for 10 year capital foreca           Mains         Avon St         173         1922         100         20025         59,740         6         suggested for 10 year capital foreca           Mains         Avon St         78         2005         100         2105         22,698         8         suggested for 10 year capital foreca           Mains         Avondale Ave         98         1932         100         200		100		3,675		1		1		
Mains         Ash St         103         1994         100         2094         29,939         75         77           Mains         Athlone Cres         19         1989         100         2089         5,462         70         4.2           Mains         Athlone Cres         567         1994         100         2098         5,462         70         4.2           Mains         Avon St         120         1922         100         2092         34,853         3         suggested for 10 year capital foreca           Mains         Avon St         106         1922         100         2022         30,755         3         suggested for 10 year capital foreca           Mains         Avon St         173         1922         100         2025         59,740         6         suggested for 10 year capital foreca           Mains         Avon St         78         2005         100         2105         22,699         86         suggested for 10 year capital foreca           Mains         Avon St         78         2005         100         2027         25,099         86         suggested for 10 year capital foreca           Mains         Avon St         78         2005         100         203		84						1		
Mains         Althlone Cres         19         1989         100         2089         5,462         70         1           Mains         Althlone Cres         567         1994         100         2094         165,342         75         4,2           Mains         Avon St         120         1922         100         2022         34,853         3         suggested for 10 year capital foreca           Mains         Avon St         106         1922         100         2022         50,289         3         suggested for 10 year capital foreca           Mains         Avon St         173         1922         100         2022         50,289         3         suggested for 10 year capital foreca           Mains         Avon St         78         2005         100         2105         59,740         6         suggested for 10 year capital foreca           Mains         Avon St         78         2005         100         2105         22,699         86         55           Mains         Avondale Ave         86         1927         100         2032         27,695         8         suggested for 10 year capital foreca           Mains         Avondale Ave         95         1932         100		1,90	1			1		1 1		
Mains         Athlone Cres         567         1994         100         2094         165,342         75         4,2           Mains         Avon St         120         1922         100         2002         34,853         3         suggested for 10 year capital foreca           Mains         Avon St         106         1922         100         2002         50,289         3         suggested for 10 year capital foreca           Mains         Avon St         173         1922         100         2002         50,289         3         suggested for 10 year capital foreca           Mains         Avon St         214         1925         100         2002         59,740         6         suggested for 10 year capital foreca           Mains         Avon St         78         2005         100         2002         25,698         8         suggested for 10 year capital foreca           Mains         Avondale Ave         86         1927         100         2002         27,695         13         2,24           Mains         Avondale Ave         95         1932         100         2032         27,695         13         2,21           Mains         Avondale Ave         93         1932         100		774 140						1		
Mains         Avon St         120         1922         100         2022         34,853         3         suggested for 10 year capital foreca           Mains         Avon St         106         1922         100         2022         50,289         3         suggested for 10 year capital foreca           Mains         Avon St         173         1922         100         2025         50,289         3         suggested for 10 year capital foreca           Mains         Avon St         214         1925         100         2025         59,740         6         suggested for 10 year capital foreca           Mains         Avon St         78         2005         100         2105         22,699         86         96         95         153           Mains         Avondale Ave         95         1932         100         2032         27,695         13         93         24           Mains         Avondale Ave         95         1932         100         2032         27,695         13         2,24           Mains         Avondale Ave         85         1932         100         2032         24,833         13         2,11           Mains         Avondale Ave         88         1932 </td <td></td> <td>4,275</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>+</td> <td></td> <td></td>		4,275				1		+		
Mains         Avon St         173         1922         100         2022         50.289         3         suggested for 10 year capital foreca           Mains         Avon St         214         1925         100         2025         59,740         6         suggested for 10 year capital foreca           Mains         Avon St         78         2005         100         2027         25,095         8         suggested for 10 year capital foreca           Mains         Avondale Ave         96         1932         100         2027         25,095         8         suggested for 10 year capital foreca           Mains         Avondale Ave         95         1932         100         2032         27,695         13         2,4           Mains         Avondale Ave         104         1932         100         2032         24,833         13         2,21           Mains         Avondale Ave         85         1932         100         2032         27,004         13         2,33           Mains         Avondale Ave         88         1932         100         2032         25,701         13         2,21           Mains         Avondale Ave         213         1932         100         2032	apital fored	suggested for 10 year capital forecas		34,853		1		1 1		
Mains         Avon St         214         1925         100         2025         59,740         6         suggested for 10 year capital foreca           Mains         Avon St         78         2005         100         2105         22,699         86         suggested for 10 year capital foreca           Mains         Avondale Ave         86         1927         100         2032         27,695         8         suggested for 10 year capital foreca           Mains         Avondale Ave         95         1932         100         2032         27,695         13         2,4           Mains         Avondale Ave         104         1932         100         2032         24,833         13         2,24           Mains         Avondale Ave         95         1932         100         2032         27,004         13         2,23           Mains         Avondale Ave         98         1932         100         2032         25,701         13         2,24           Mains         Avondale Ave         213         1932         100         2032         25,701         13         2,24           Mains         Avonwood Dr         3         1976         100         2076         870		suggested for 10 year capital forecas				1				
Mains         Avon St         78         2005         100         2105         22,699         86         55           Mains         Avondale Ave         86         1927         100         2027         25,095         8         suggested for 10 year capital foreca           Mains         Avondale Ave         95         1932         100         2032         27,695         13         2,4           Mains         Avondale Ave         104         1932         100         2032         24,833         13         2,24           Mains         Avondale Ave         85         1932         100         2032         27,004         13         2,23           Mains         Avondale Ave         88         1932         100         2032         25,701         13         2,23           Mains         Avondale Ave         88         1932         100         2032         25,701         13         2,24           Mains         Avondale Ave         213         1932         100         2032         25,701         13         2,24           Mains         Avondale Ave         213         1932         100         2032         62,134         13         5,24			1							
Mains         Avondale Ave         86         1927         100         2027         25,095         8         suggested for 10 year capital foreca           Mains         Avondale Ave         95         1932         100         2032         27,695         13         2,4           Mains         Avondale Ave         104         1932         100         2032         30,292         13         2,4           Mains         Avondale Ave         85         1932         100         2032         24,833         13         2,1           Mains         Avondale Ave         93         1932         100         2032         25,701         13         2,23           Mains         Avondale Ave         88         1932         100         2032         25,701         13         2,23           Mains         Avondale Ave         213         1932         100         2032         25,701         13         2,23           Mains         Avondale Ave         135         2007         100         2107         39,237         88         9         9           Mains         Avonwood Dr         3         1976         100         2076         4,518         57         11     <		suggested for 10 year capital forecas				1				
Mains         Avondale Ave         104         1932         100         2032         30,292         13         2,66           Mains         Avondale Ave         85         1932         100         2032         24,833         13         2,11           Mains         Avondale Ave         93         1932         100         2032         27,004         13         2,23           Mains         Avondale Ave         88         1932         100         2032         25,701         13         2,23           Mains         Avondale Ave         213         1932         100         2032         25,701         13         5,4*           Mains         Avondale Ave         135         2007         100         2007         39,237         88         99           Mains         Avonwood Dr         3         1976         100         2076         870         57         12           Mains         Avonwood Dr         16         1976         100         2076         4,518         57         11           Mains         Avonwood Dr         4         1976         100         2076         1,043         57         13           Mains         Avonwood		suggested for 10 year capital forecas	1			1				
Mains         Avondale Ave         85         1932         100         2032         24,833         13         2,11           Mains         Avondale Ave         93         1932         100         2032         27,004         13         2,31           Mains         Avondale Ave         88         1932         100         2032         25,701         13         2,21           Mains         Avondale Ave         213         1932         100         2032         62,134         13         5,43           Mains         Avondale Ave         135         2007         100         2076         870         57           Mains         Avonwood Dr         3         1976         100         2076         870         57           Mains         Avonwood Dr         16         1976         100         2076         4,332         57         11           Mains         Avonwood Dr         16         1976         100         2076         4,518         57         11           Mains         Avonwood Dr         4         1976         100         2076         27,916         57         38           Mains         Avonwood Dr         96         1976 </td <td>2,</td> <td>2,440</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>Mains</td>	2,	2,440				1				Mains
Mains         Avondale Ave         93         1932         100         2032         27,004         13         2,31           Mains         Avondale Ave         88         1932         100         2032         25,701         13         2,21           Mains         Avondale Ave         213         1932         100         2032         62,134         13         5,47           Mains         Avondale Ave         135         2007         100         2107         39,237         88         98           Mains         Avondool Dr         3         1976         100         2076         870         57         7           Mains         Avonwood Dr         16         1976         100         2076         4,332         57         11           Mains         Avonwood Dr         16         1976         100         2076         4,518         57           Mains         Avonwood Dr         4         1976         100         2076         1,043         57           Mains         Avonwood Dr         96         1976         100         2076         27,916         57         88           Mains         Avonwood Dr         33         1976 <td></td> <td>2,669</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		2,669								
Mains         Avondale Ave         88         1932         100         2032         25,701         13         2,21           Mains         Avondale Ave         213         1932         100         2032         62,134         13         5,4           Mains         Avondale Ave         135         2007         100         2107         39,237         88         98           Mains         Avonwood Dr         3         1976         100         2076         870         57         57         12           Mains         Avonwood Dr         16         1976         100         2076         4,332         57         11           Mains         Avonwood Dr         16         1976         100         2076         4,518         57         11           Mains         Avonwood Dr         4         1976         100         2076         4,518         57         13           Mains         Avonwood Dr         96         1976         100         2076         27,916         57         36           Mains         Avonwood Dr         33         1976         100         2076         9,732         57         22           Mains         A		2,18				1				
Mains         Avondale Ave         213         1932         100         2032         62,134         13         5,4*           Mains         Avondale Ave         135         2007         100         2107         39,237         88         99           Mains         Avonwood Dr         3         1976         100         2076         870         57           Mains         Avonwood Dr         16         1976         100         2076         4,332         57           Mains         Avonwood Dr         16         1976         100         2076         4,518         57           Mains         Avonwood Dr         4         1976         100         2076         1,043         57           Mains         Avonwood Dr         4         1976         100         2076         27,916         57         8.           Mains         Avonwood Dr         33         1976         100         2076         9,732         57         21           Mains         Avonwood Dr         128         1976         100         2076         37,255         57         1,10           Mains         Avonwood Dr         71         1976         100         2076		2,36	1			1				
Mains         Avonwood Dr         3         1976         100         2076         870         57         2           Mains         Avonwood Dr         16         1976         100         2076         4,332         57         11           Mains         Avonwood Dr         16         1976         100         2076         4,518         57         13           Mains         Avonwood Dr         4         1976         100         2076         27,916         57         83           Mains         Avonwood Dr         96         1976         100         2076         27,916         57         83           Mains         Avonwood Dr         33         1976         100         2076         9,732         57         22           Mains         Avonwood Dr         128         1976         100         2076         37,255         57         1,11           Mains         Avonwood Dr         71         1976         100         2076         20,811         57         6           Mains         Babb Cres         287         1968         100         2068         83,510         49         2,66           Mains         Baker St		5,47			2032	100	1932	213	Avondale Ave	
Mains         Avonwood Dr         16         1976         100         2076         4,332         57         12           Mains         Avonwood Dr         16         1976         100         2076         4,518         57         11           Mains         Avonwood Dr         4         1976         100         2076         1,043         57         3           Mains         Avonwood Dr         96         1976         100         2076         27,916         57         88           Mains         Avonwood Dr         33         1976         100         2076         9,732         57         22           Mains         Avonwood Dr         128         1976         100         2076         37,255         57         1,11           Mains         Avonwood Dr         128         1976         100         2076         20,811         57         6           Mains         Avonwood Dr         71         1976         100         2076         20,811         57         6           Mains         Babb Cres         287         1968         100         2068         83,510         49         2,66           Mains         Baker St         <		95								
Mains         Avonwood Dr         16         1976         100         2076         4,518         57         13           Mains         Avonwood Dr         4         1976         100         2076         1,043         57           Mains         Avonwood Dr         96         1976         100         2076         27,916         57           Mains         Avonwood Dr         33         1976         100         2076         9,732         57           Mains         Avonwood Dr         128         1976         100         2076         37,255         57         1,10           Mains         Avonwood Dr         71         1976         100         2076         20,811         57         60           Mains         Babb Cres         287         1968         100         2076         20,811         57         60           Mains         Baker St         24         1966         100         2068         83,510         49         2,60           Mains         Baker St         24         1966         100         2066         7,016         47         22           Mains         Baker St         21         1972         100 <t< td=""><td></td><td>20</td><td><u> </u></td><td></td><td></td><td>1</td><td></td><td>+</td><td></td><td></td></t<>		20	<u> </u>			1		+		
Mains         Avonwood Dr         4         1976         100         2076         1,043         57         3           Mains         Avonwood Dr         96         1976         100         2076         27,916         57         82           Mains         Avonwood Dr         33         1976         100         2076         9,732         57         26           Mains         Avonwood Dr         128         1976         100         2076         37,255         57         1,10           Mains         Avonwood Dr         71         1976         100         2076         20,811         57         6           Mains         Babb Cres         287         1968         100         2068         83,510         49         2,60           Mains         Baker St         24         1966         100         2066         7,016         47         23           Mains         Baker St         21         1972         100         2072         6,080         53         18           Mains         Ballantyne Ave         277         1910         100         2019         77,267         0         suggested for 10 year capital foreca           Mains		12i				1		1 -		
Mains         Avonwood Dr         96         1976         100         2076         27,916         57         82           Mains         Avonwood Dr         33         1976         100         2076         9,732         57         26           Mains         Avonwood Dr         128         1976         100         2076         37,255         57         1,10           Mains         Avonwood Dr         71         1976         100         2076         20,811         57         6           Mains         Babb Cres         287         1968         100         2068         83,510         49         2,66           Mains         Baker St         24         1966         100         2066         7,016         47         23           Mains         Baker St         21         1972         100         2072         6,080         53         18           Mains         Ballantyne Ave         277         1910         100         2019         77,267         0         suggested for 10 year capital foreca           Mains         Barnsdale St         90         2009         100         2019         30,708         90         30,708         90         30,708		3								
Mains         Avonwood Dr         128         1976         100         2076         37,255         57         1,10           Mains         Avonwood Dr         71         1976         100         2076         20,811         57         6°           Mains         Babb Cres         287         1968         100         2068         83,510         49         2,60           Mains         Baker St         24         1966         100         2066         7,016         47         2:           Mains         Baker St         21         1972         100         2072         6,080         53         18           Mains         Baker St         212         1973         100         2073         61,811         54         1,88           Mains         Ballantyne Ave         277         1910         100         2019         77,267         0         suggested for 10 year capital foreca           Mains         Barnsdale St         90         2009         100         2109         30,708         90         30,708         90         73           Mains         Barron St         16         1978         100         2078         4,786         59         13		829	-					1		Mains
Mains         Avonwood Dr         71         1976         100         2076         20,811         57         66           Mains         Babb Cres         287         1968         100         2068         83,510         49         2,66           Mains         Baker St         24         1966         100         2066         7,016         47         23           Mains         Baker St         21         1972         100         2072         6,080         53         18           Mains         Baker St         212         1973         100         2073         61,811         54         1,88           Mains         Ballantyne Ave         277         1910         100         2019         77,267         0         suggested for 10 year capital foreca           Mains         Ballantyne Ave         157         1910         100         2019         43,706         0         suggested for 10 year capital foreca           Mains         Barnsdale St         90         2009         100         2109         30,708         90         73           Mains         Barron St         16         1978         100         2078         4,786         59         13		288	_			1		1		
Mains         Babb Cres         287         1968         100         2068         83,510         49         2,60           Mains         Baker St         24         1966         100         2066         7,016         47         23           Mains         Baker St         21         1972         100         2072         6,080         53         18           Mains         Baker St         212         1973         100         2073         61,811         54         1,88           Mains         Ballantyne Ave         277         1910         100         2019         77,267         0         suggested for 10 year capital foreca           Mains         Ballantyne Ave         157         1910         100         2019         43,706         0         suggested for 10 year capital foreca           Mains         Barnsdale St         90         2009         100         2109         30,708         90         75           Mains         Barron St         16         1978         100         2078         4,786         59         15		1,10 <sup>-</sup> 61:						1		
Mains         Baker St         24         1966         100         2066         7,016         47         23           Mains         Baker St         21         1972         100         2072         6,080         53         18           Mains         Baker St         212         1973         100         2073         61,811         54         1,86           Mains         Ballantyne Ave         277         1910         100         2019         77,267         0         suggested for 10 year capital foreca           Mains         Ballantyne Ave         157         1910         100         2019         43,706         0         suggested for 10 year capital foreca           Mains         Barnsdale St         90         2009         100         2109         30,708         90         73           Mains         Barron St         16         1978         100         2078         4,786         59         13		2,68								
Mains         Baker St         212         1973         100         2073         61,811         54         1,88           Mains         Ballantyne Ave         277         1910         100         2019         77,267         0         suggested for 10 year capital foreca           Mains         Ballantyne Ave         157         1910         100         2019         43,706         0         suggested for 10 year capital foreca           Mains         Barnsdale St         90         2009         100         2109         30,708         90         73           Mains         Barron St         16         1978         100         2078         4,786         59         13		23.	47	7,016						
Mains         Ballantyne Ave         277         1910         100         2019         77,267         0         suggested for 10 year capital foreca           Mains         Ballantyne Ave         157         1910         100         2019         43,706         0         suggested for 10 year capital foreca           Mains         Barnsdale St         90         2009         100         2109         30,708         90         90         73           Mains         Barron St         16         1978         100         2078         4,786         59         13		18				1		1		
Mains         Ballantyne Ave         157         1910         100         2019         43,706         0         suggested for 10 year capital foreca           Mains         Barnsdale St         90         2009         100         2109         30,708         90         73           Mains         Barron St         16         1978         100         2078         4,786         59         13		1,882								
Mains         Barnsdale St         90         2009         100         2109         30,708         90         73           Mains         Barron St         16         1978         100         2078         4,786         59         13		, ,						1 1		
Mains Barron St 16 1978 100 2078 4,786 59 1:	•	738								
Maine   Rarron St   46   4070   400   2070   4 503   50		139				100	1978		Barron St	
		133		4,593	2078	100	1978	16	Barron St	Mains
		509 820						1		



					Waterm				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Barron St	95	1978	100	2078	27,718	59	804	<u>-</u>
Mains	Battershall Ct	164	1976	100	2076	47,835	57	1,414	-
Mains	Bay St	230	1920	100	2020	67,101	1	suggested for 10 year capital forecast	67,101
Mains	Bay St	256	1920	100	2020	74,536	1	suggested for 10 year capital forecast	74,536
Mains	Bay St	11	2005	100	2105	3,331	86	81	-
Mains	Bedford Dr	36	1965	100	2065	10,501	46	351	-
Mains	Bedford Dr	66	1967	100	2067	19,207 53,277	48	626	-
Mains Mains	Bedford Dr Bedford Dr	183 56	1967 1971	100 100	2067 2071	16,331	48 52	1,737 508	-
Mains	Bedford Dr	323	1973	100	2073	94,090	54	2,865	
Mains	Bedford Dr	38	1973	100	2073	11,149	54	340	-
Mains	Bell Ct	16	1993	100	2093	4,541	74	118	-
Mains	Bell Ct	116	1993	100	2093	33,891	74	881	-
Mains	Bell Ct	49	1993	100	2093	14,200	74	369	-
Mains	Bell Ct	76	2000	100	2100	22,011	81	551	-
Mains	Birmingham St	50	1914	100	2019	14,500	0	suggested for 10 year capital forecast	14,500
Mains	Birmingham St	90	1914	100	2019	26,206	0	suggested for 10 year capital forecast	26,206
Mains	Birmingham St	100	1914	100	2019	29,021 30,441	0	suggested for 10 year capital forecast	29,021
Mains Mains	Birmingham St Birmingham St	104 124	1921 1922	100 100	2021	36,121	3	suggested for 10 year capital forecast	30,441 36,121
Mains	Birmingnam St  Birmingham St	102	1922	100	2022	29,805	4	suggested for 10 year capital forecast suggested for 10 year capital forecast	29,805
Mains	Birmingham St	98	1923	100	2023	28,683	5	suggested for 10 year capital forecast	28,683
Mains	Birmingham St	78	1931	100	2031	22,626	12	2,140	-
Mains	Birmingham St	236	1931	100	2031	68,649	12	6,491	-
Mains	Birmingham St	88	1931	100	2031	25,599	12	2,421	-
Mains	Birmingham St	13	1931	100	2031	3,885	12	367	-
Mains	Birmingham St	93	1931	100	2031	27,191	12	2,571	-
Mains	Birmingham St	12	1997	100	2097	3,431	78	87	-
Mains	Birmingham St	4	1997	100	2097	1,134	78	29	-
Mains	Birmingham St	25	2002	100	2102	7,319 898	83	181	-
Mains	Birmingham St	104	2002 2005	100 100	2102 2105	30,301	83 86	<u>22</u> 741	-
Mains Mains	Birmingham St Birmingham St	16	2005	100	2105	4,763	86	116	-
Mains	Birmingham St	137	2012	100	2112	39,802	93	946	_
Mains	Birmingham St	12	2015	100	2115	3,600	96	85	-
Mains	Blake St	210	1914	100	2019	58,549	0	suggested for 10 year capital forecast	58,549
Mains	Blake St	60	1923	100	2023	16,647	4	suggested for 10 year capital forecast	16,647
Mains	Blake St	124	1964	100	2064	36,281	45	1,230	-
Mains	Blake St	10	1964	100	2064	3,052	45	103	-
Mains	Blake St	249	1965	100	2065	72,703	46	2,432	-
Mains	Blake St	19	1965	100	2065	5,482	46	183	-
Mains	Blake St	8	2009	100	2109	2,233 4,191	90	54	-
Mains Mains	Blake St Blake St	14	2009 2009	100 100	2109 2109	2,381	90 90	101 57	-
Mains Mains	Borden St	88	1924	100	2024	25,550	5	suggested for 10 year capital forecast	25,550
Mains	Borden St	92	1931	100	2031	26,826	12	2,537	-
Mains	Borden St	156	1964	100	2064	45,419	45	1,540	-
Mains	Borden St	180	1994	100	2094	52,350	75	1,354	-
Mains	Borden St	20	2014	100	2114	5,928	95	140	-
Mains	Borden St	13	2014	100	2114	3,903	95	92	-
Mains	Boyd St	193	1987	100	2087	66,186	68	1,789	-
Mains	Braemar Cres	505	1974	100	2074	147,140	55	4,435	-
Mains	Brant St	257	1987	100	2087	74,839	68	2,023	-
Mains Mains	Brett St	109 55	1976 1976	100 100	2076 2076	31,685 15,946	57 57	937 471	-
Mains Mains	Brett St Briarhill Dr	84	1976	100	2076	25,587	47	845	-
Mains	Briarhill Dr	104	1966	100	2066	31,618	47	1,044	-
Mains	Briarhill Dr	38	1966	100	2066	11,572	47	382	-
Mains	Briarhill Dr	36	1974	100	2074	10,846	55	327	-
Mains	Briarhill Dr	107	1974	100	2074	32,579	55	982	-
Mains	Briarhill Dr	35	1974	100	2074	10,776	55	325	-
Mains	Briarhill Dr	52	1986	100	2086	15,922	67	433	-
Mains	Briarhill Dr	88	1986	100	2086	26,788	67	729	-
Mains	Briarhill Dr	111	1986	100	2086	33,680	67	917	-
Mains	Briarhill Dr	182	1991	100	2091	55,307	72	1,456	-
Mains	Briarhill Dr	107	1991	100	2091	32,415 46,308	72	853	-
Mains Mains	Britannia St	152	1963	100	2063	76,025	44	1,592	-
Mains Mains	Britannia St Britannia St	250 54	1963 1963	100 100	2063 2063	16,363	44 44	2,614 563	-
	Britannia St	124	1965	100	2063	37,725	44	1,262	-
Maine	portarina Ot			100	2089	23,287	70	621	-
Mains Mains	Britannia St	ନ୍ଦ	1989				, , ,	021	- 1
Mains	Britannia St Britannia St	68 17	1989 2003	1		4,879	84		-
	Britannia St Britannia St Britannia St	68 17 9	1989 2003 2003	100	2103 2103		84 84	120 65	-
Mains Mains	Britannia St	17	2003	100	2103	4,879	1	120	



#### Table A-2

					Table .	A-2			
					City of Str	atford			
Watermains									
Asset	Street	Length (m)	Year Installed		Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Britannia St	69	2003	100	2103	23,677	84	584	_
Mains	Britannia St	84	2003	100		28,758	84	710	-
Mains	Britannia St	99		100		33,860	84	836	-
Mains	Britannia St	204	2003	100	2103	69,786	84	1,722	-
Mains	Britannia St	98		100		33,415 2,183	84	825	-
Mains Mains	Britannia St Britannia St	7	2003 2003	100 100	2103 2103	2,163	84 84	54 58	-
Mains	Britannia St	2		100		715	94	17	-
Mains	Britannia St	11	2013	100	2113	3,812	94	90	-
Mains	Brown St	65		100	2110	19,009	91	455	-
Mains	Brown St	323	2010	100	2110	94,207 30,610	91	2,256	-
Mains Mains	Bruce St Bruce St	105 239		100 100	2061 2064	69,602	42 45	1,084 2,360	<u>-</u>
Mains	Bruce St	101	1964	100	2064	29,327	45	2,300	_
Mains	Bruce St	18		100	2114	5,118	95	121	-
Mains	Brunswick St	90	1921	100	2021	26,308	2	suggested for 10 year capital forecast	26,308
Mains	Brunswick St	93		100	2021	27,182	2	suggested for 10 year capital forecast	27,182
Mains	Brunswick St	93		100		27,054	2	suggested for 10 year capital forecast	27,054
Mains Mains	Brunswick St Brunswick St	78		100 100	2024 2024	2,428 22,798	5 5	suggested for 10 year capital forecast	2,428 22,798
Mains	Brunswick St	98		100	2024	28,569	5	suggested for 10 year capital forecast suggested for 10 year capital forecast	28,569
Mains	Brunswick St	102	1924	100	2024	29,595	5	suggested for 10 year capital forecast	29,595
Mains	Brunswick St	94	1924	100	2024	27,377	5	suggested for 10 year capital forecast	27,377
Mains	Brunswick St	189		100	2024	55,075	5	suggested for 10 year capital forecast	55,075
Mains	Brunswick St	421	1924	100		122,814	5	suggested for 10 year capital forecast	122,814
Mains Mains	Brunswick St Brunswick St	99		100 100	2089 2089	28,738 12,559	70 70	766 335	-
Mains	Brunswick St	266		100		77,416	75	2,002	-
Mains	Brunswick St	16		100		4,536	76	117	
Mains	Brunswick St	251	1995	100	2095	73,064	76	1,878	-
Mains	Brunswick St	8	1924	100	2024	2,451	5	suggested for 10 year capital forecast	2,451
Mains	Brydges St	91	1931	100		26,509	12	2,507	-
Mains	Brydges St	111	1931	100		32,463 29,636	12	3,070 2,802	-
Mains Mains	Brydges St Brydges St	102 108	1931 1931	100 100	2031 2031	31,362	12 12	2,802	
Mains	Brydges St	77	1931	100	2031	22,306	12	2,109	-
Mains	Brydges St	95	1945	100		27,593	26	1,371	=
Mains	Brydges St	117	1947	100	2047	32,660	28	1,535	-
Mains	Brydges St	57	1948	100	2048	15,752	29	721	-
Mains	Brydges St	39		100	2053	10,904 12,838	34	445	-
Mains Mains	Brydges St Brydges St	46 115		100 100	2065 2065	33,483	46 46	429 1,120	-
Mains	Brydges St Brydges St	24	2009	100	2109	7,068	90	170	
Mains	Brydges St	90		100	2109	26,185	90	630	-
Mains	Brydges St	20	2009	100	2109	5,864	90	141	-
Mains	Brydges St	89		100	2109	25,806	90	621	=
Mains	Brydges St	25	2009	100	2109	7,322 20,222	90	176	
Mains Mains	Brydges St Brydges St	69 25	2009 2009	100 100	2109 2109	7,179	90 90	486 173	
Mains	Brydges St Brydges St	59		100	2109	17,328	90	417	-
Mains	Brydges St	27	2009	100	2109	7,855	90	189	-
Mains	Brydges St	66		100	2109	19,213	90	462	-
Mains	Brydges St	22	2009	100		6,424	90	154	-
Mains	Brydges St	80		100	2109	23,352	90	562	-
Mains Mains	Brydges St Buckingham Dr	16 99		100 100	2109 2071	4,646 28,963	90 52	112 901	-
Mains Mains	Buckingham Dr  Buckingham Dr	11	1971 1974	100	2071	3,130	52 55	901	-
Mains	Buckingham Dr	161	1974	100		46,937	55	1,415	-
Mains	Burnham Ct	203	1992	100	2092	59,295	73	1,551	-
Mains	Burritt St	152	1954	100	2054	44,221	35	1,769	-
Mains	Burritt St	233	1954	100	2054	67,879	35	2,715	-
Mains Mains	Burritt St	17	1963	100	2063	4,882 43,122	44	168	-
Mains Mains	Burritt St Burritt St	148 96	1963 1963	100 100	2063 2063	27,873	44	1,483 958	-
Mains	Burritt St	96		100		27,488	44	958	-
Mains	Burritt St	62		100		18,152	44	624	
Mains	Burritt St	136		100	2066	39,493	47	1,304	-
Mains	Burritt St	198		100		57,602	47	1,902	-
Mains	Burritt St	16		100	2081	4,701	62	133	
Mains	Burritt St	53		100	2103	15,316	84	378	
Mains Mains	Burritt St Burwell Rd	73		100 100	2103 2087	3,401 21,315	84 68	84 576	-
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21,315

55,744

99,036

77,501

77,778

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48

56

56

Mains

Mains

Mains

Mains

Mains

Burwell Rd

C.H. Meier Blvd

C.H. Meier Blvd

C.H. Meier Blvd

C.H. Meier Blvd

576

1,817

3,229

2,313

2,321



Watermains									
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Caledonia St	174	1932	100	2032	50,712	13	4,469	_
Mains	Caledonia St	98	1932	100	2032	28,520	13	2,513	-
Mains	Caledonia St	75	1932	100	2032	21,953	13	1,934	-
Mains	Caledonia St	160	1932	100	2032	46,608	13	4,107	-
Mains	Caledonia St	10	1972	100	2072	2,961 61,648	53	91	-
Mains Mains	Caledonia St Caledonia St	212	1998 2009	100 100	2098 2109	207	79 90	1,559 5	-
Mains	Caledonia St	163	2009	100	2109	47,549	90	1,143	-
Mains	Caledonia St	108	2009	100	2109	31,455	90	756	-
Mains	Caledonia St	76	2009	100	2109	22,108	90	532	-
Mains	Caledonia St	170	2009	100	2109	49,526 274	90	1,191	-
Mains Mains	Caledonia St Cambria St	84	2009 1923	100 100	2109 2023	24,623	90	suggested for 10 year capital forecast	24,623
Mains	Cambria St	96	1923	100	2023	27,846	4	suggested for 10 year capital forecast	27,846
Mains	Cambria St	51	1923	100	2023	14,911	4	suggested for 10 year capital forecast	14,911
Mains	Cambria St	44	1923	100	2023	12,752	4	suggested for 10 year capital forecast	12,752
Mains	Cambria St	90	1923	100	2023	26,139	4	suggested for 10 year capital forecast	26,139
Mains	Cambria St	8	1955	100	2055	2,222 92,258	36	87	-
Mains Mains	Cambria St Cambria St	270 92	1990 1992	100 100	2090 2092	92,258 31,571	71 73	2,444 826	-
Mains	Cambria St	72	1992	100	2092	24,799	75 75	641	<u> </u>
Mains	Cambria St	5	1994	100	2094	1,600	75	41	-
Mains	Cambria St	46	1994	100	2094	13,425	75	347	-
Mains	Cambria St	264	1997	100	2097	90,253	78	2,295	-
Mains	Cambria St	79	1997	100	2097	27,054	78	688	-
Mains	Cambria St	86	1997 2006	100 100	2097 2106	29,329 4,451	78 87	746 108	-
Mains Mains	Cambria St Cambria St	13 96		100	2106	32,727	87	797	<u>-</u>
Mains	Cambria St	7	2006	100	2106	2,282	87	56	-
Mains	Campbell Ct	5		100		1,478	57	44	-
Mains	Campbell Ct	6	1976	100	2076	1,597	57	47	-
Mains	Campbell Ct	21	1976	100	2076	5,763	57	170	-
Mains	Campbell Ct	20	1976	100	2076	5,473 1,185	57	162	-
Mains Mains	Campbell Ct Campbell Ct	16	1976 1976	100 100	2076 2076	4,528	57 57	35 134	<u>-</u>
Mains	Campbell Ct	4	1976	100	2076	1,229	57	36	-
Mains	Campbell Ct	16		100	2076	4,494	57	133	-
Mains	Campbell Ct	203	1976	100	2076	59,164	57	1,749	-
Mains	Canterbury Ave	77	1947	100	2047	22,344	28	1,050	-
Mains	Canterbury Ave	250	1956	100	2056	72,875 3,643	37	2,806	-
Mains Mains	Caroline St Caroline St	13 80	1940 1940	100 100	2040 2040	22,228	21 21	214 1,307	-
Mains	Caroline St	22	1980	100	2080	6,159	61	176	=
Mains	Caroline St	54	1980	100	2080	15,083	61	430	-
Mains	Caroline St	47	1980	100	2080	13,778	61	393	-
Mains	Cawston St	242	1967	100	2067	70,529	48	2,299	-
Mains	Cedar St	167	1975	100	2075	48,797 3,483	56	1,456	-
Mains Mains	Cedar St Cedar St	12 14	1975 2011	100 100	2075 2111	4,013	56 92	104 96	<u>-</u>
Mains	Cedarbrae Dr	118	1986	100	2086	34,477	67	939	=
Mains	Cedarbrae Dr	179	1991	100	2091	52,175	72	1,374	-
Mains	Centre St	256	1933	100	2033	71,382	14	5,896	-
Mains	Centre St	256	1933	100	2033	74,533	14	6,157	=
Mains Mains	Centre St Centre St	11	1997 1997	100 100	2097 2097	3,014 1,813	78 78	77 46	-
Mains	Charles St	156	1997	100	2097	45,334	12	4,287	-
Mains	Charles St	170	1931	100	2031	49,461	12	4,677	<u> </u>
Mains	Charles St	177	1940	100	2040	49,394	21	2,904	-
Mains	Charles St	219	1947	100	2047	63,874	28	3,001	-
Mains	Charles St	16	1972	100	2072	4,582	53	141	-
Mains	Cherry St	249	1925	100	2025	72,569 3,544	6	suggested for 10 year capital forecast	72,569
Mains Mains	Cherry St Cherry St	12 25	1925 2009	100 100	2025 2109	7,158	6 90	suggested for 10 year capital forecast 172	3,544
Mains	Chestnut St	126	1956	100	2056	36,637	37	1,411	<u>-</u>
Mains	Chestnut St	92	1956	100	2056	26,672	37	1,027	=
Mains	Chestnut St	16	2011	100	2111	4,611	92	110	-
Mains	Chestnut St	127	2011	100	2111	36,902	92	880	-
Mains	Chestnut St	92		100	2111	26,838	92	640	-
Mains Mains	Church St	159 229	1916 1918	100	2019	46,427 66,626	0	suggested for 10 year capital forecast	46,427 66,626
Mains Mains	Church St Church St	198		100 100	2019 2022	57,713	3	suggested for 10 year capital forecast suggested for 10 year capital forecast	66,626 57,713
Mains	Church St	196		100	2022	4,690	3	suggested for 10 year capital forecast	4,690
Mains	Church St	156		100	2022	45,515	3	suggested for 10 year capital forecast	45,515
Mains	Church St	163	1925	100	2025	47,369	6	suggested for 10 year capital forecast	47,369
Mains	Church St	34	1931	100	2031	10,000	12	946	-



					City of Str. Waterm				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Church St	219	1939	100	2039	63,866	20	3,906	-
Mains	Church St	14	1939	100	2039	3,934	20	241	-
Mains	Church St	14	1992	100	2092	4,095	73	107	-
Mains	Church St	2	1997	100	2097	493 3,935	78	13	-
Mains Mains	Church St Church St	14		100 100	2102 2105	4,174	83 86	98	-
Mains	Church St	96		100	2105	27,864	86	681	-
Mains	Church St	16	2015	100	2115	4,713	96	111	-
Mains	Church St	4		100	2115	1,087	96	26	-
Mains	Churchill Crcl	28		100	2103	9,563 17,610	84	236	-
Mains Mains	Cluff Ct Cobourg St	60 150		100 100	2102 2019	41,688	83 0	437 suggested for 10 year capital forecast	41,688
Mains	Cobourg St	132		100	2019	38,328	0	suggested for 10 year capital forecast	38,328
Mains	Cobourg St	267	1913	100	2019	74,337	0	suggested for 10 year capital forecast	74,337
Mains	Cobourg St	249	1913	100	2019	69,508	0	suggested for 10 year capital forecast	69,508
Mains	Cobourg St	228	1913	100	2019	63,551	0	suggested for 10 year capital forecast	63,551
Mains Mains	Cobourg St Cobourg St	22 40	1913 1950	100 100	2019 2050	6,217 11,702	0 31	suggested for 10 year capital forecast 510	6,217
Mains	Cobourg St	144	1985	100	2030	42,047	66	1,153	-
Mains	Cobourg St	3		100	2110	863	91	21	-
Mains	Cobourg St	20	2010	100	2110	5,949	91	142	-
Mains	Cody Dr	177	2004	100	2104	51,694	85	1,270	-
Mains	Conner St	182	2005	100	2105	53,134 73,911	86	1,299	-
Mains Mains	Cooper St Cooper St	243 10		100 100	2033 2033	3,032	14 14	6,105 250	-
Mains	Cooper St	10		100		3,032	91	73	-
Mains	Corcoran St	159	1955	100	2055	46,337	36	1,818	-
Mains	Corcoran St	36		100	2055	10,379	36	407	-
Mains	Corcoran St	15		100	2108	4,978 82,604	89	120	-
Mains Mains	Coriano St Crane Ave	283 45		100 100	2046 2061	13,244	27 42	3,989 469	-
Mains	Crane Ave	35	1961	100	2061	11,975	42	424	-
Mains	Crane Ave	156	2009	100	2109	53,506	90	1,287	-
Mains	Crane Ave	108	2009	100	2109	37,117	90	893	-
Mains	Crane Ave	122	2009	100	2109	41,585 41,271	90	1,000	-
Mains Mains	Crane Ave Crane Ave	121 53	2009 2009	100 100	2109 2109	18,165	90 90	992 437	-
Mains	Crane Ave	5	2009	100	2109	1,571	90	38	-
Mains	Crawford St	97	1991	100	2091	28,205	72	743	-
Mains	Crawford St	99		100	2091	28,852	72	760	-
Mains	Crehan Cres	254	1976	100	2076	74,175 25,958	57	2,193	-
Mains Mains	Crooks St Crooks St	89 90	1931 1931	100 100	2031	26,299	12 12	2,455 2,487	-
Mains	Daly Ave	337	1921	100	2021	98,358	2	suggested for 10 year capital forecast	98,358
Mains	Daly Ave	9	1996	100	2096	2,480	77	63	-
Mains	Dannecker Rd	80		100	2104	27,372	85	672	-
Mains	Dannecker Rd	102	2004	100	2104	34,927 22,989	85	858	-
Mains Mains	Dannecker Rd Dannecker Rd	67 50	2004 2004	100 100	2104 2104	16,991	85 85	565 417	-
Mains	Dawson St	59		100	2056	16,421	37	632	-
Mains	Dawson St	90		100	2058	26,369	39	980	-
Mains	Dawson St	28	1958	100	2058	8,286	39	308	-
Mains	Dawson St	60		100	2066	17,616	47	582	-
Mains Mains	Dawson St Deacon St	59 65	1966 1976	100 100	2066 2076	17,287 18,966	47 57	571 561	-
Mains	Deacon St	111	1976	100	2076	32,367	57	957	_
Mains	Deacon St	22	1976	100	2076	6,514	57	193	-
Mains	Delamere Ave	316		100	2026	92,184	7	suggested for 10 year capital forecast	92,184
Mains	Delamere Ave	89	1931	100	2031	25,990	12	2,458	-
Mains	Delamere Ave	111 112	1931 1931	100 100	2031 2031	32,245 32,615	12 12	3,049 3,084	-
Mains Mains	Delamere Ave Delamere Ave	66	1948	100	2031	18,442	29	3,004	-
Mains	Delamere Ave	83		100	2056	28,505	37	1,098	-
Mains	Delamere Ave	115	1956	100	2056	39,358	37	1,516	-
Mains	Delamere Ave	180		100	2056	61,642	37	2,374	-
Mains Mains	Delamere Ave	141		100		48,401 74,699	37	1,864	
Mains Mains	Delamere Ave Demille St	218 253		100 100	2063 2078	74,699	44 59	2,569 2,138	-
Mains	Denison St	88		100	2076	24,668	37	2,130	-
Mains	Devon St	134		100	2054	39,039	35	1,562	-
Mains	Devon St	80		100	2055	23,253	36	912	-
Mains	Devon St	80		100	2055	23,195	36	910	-
Mains Mains	Devon St	84		100	2055	24,439 32,213	36 36	959	-
Mains Mains	Devon St Devon St	111 76	1955 1955	100 100	2055 2055	22,038	36 36	1,264 865	-
MILLIO	IDOMOIT OF	10	1300	100	2000	22,000	JU	000	•



City of Stratford Watermains Amount to **Total Main** Years until be included Length Year **Estimated Replacement** Asset Street Replacement **Annual Lifecycle Contribution** Replacement (m) Installed Life Year in 10 year Costs **Forecast** 17,654 Mains 61 1968 100 2068 569 Devon St 49 26,039 100 839 Mains Devon St 89 1968 2068 49 97,984 Mains Devon St 336 1968 100 2068 49 3,155 Devon St 93 1968 100 2068 27,202 49 876 Mains 27,529 Mains Devon St 94 1968 100 2068 49 887 165,738 569 1976 4,899 Mains Devon St 100 2076 57 Devon St 2076 15,340 Mains 53 1976 100 57 453 54,854 Devon St Mains 188 1976 100 2076 57 1,622 15,311 Mains Devon St 53 1976 100 2076 57 453 17,261 Mains Diana Ct 59 1966 100 2066 47 570 40,607 139 100 2076 57 1,200 Dickens PI 1976 Mains 1,046 Mains Dingman PI 4 1987 100 2087 68 28 34,142 117 Mains Dingman PI 1996 100 2096 77 873 24,632 Dingman PI 85 1996 100 2096 77 630 Mains Mains Dixon Rd 263 1967 100 2067 76,527 48 2,495 8,715 100 2067 284 Mains Dixon Rd 30 1967 48 3,517 2067 Mains Dixon Rd 10 1967 100 48 115 39,601 Mains Dorland Dr 116 1967 100 2067 48 1,291 33,877 Mains Dorland Dr 99 1967 100 2067 48 59,227 Mains Douglas St 212 1908 100 2019 0 suggested for 10 year capital forecast 59,227 Mains 259 1915 100 2019 72,068 0 72,068 Douglas St suggested for 10 year capital forecast 58,820 202 100 2021 Mains 1921 2 suggested for 10 year capital forecast 58,820 Douglas St 70,394 Mains Douglas St 242 1921 100 2021 2 suggested for 10 year capital forecast 70,394 33,617 115 1974 100 2074 55 1,013 Mains Douglas St 4,110 Mains Douglas St 14 1992 100 2092 73 108 761 Mains Douglas St 1992 100 2092 73 20 48,887 100 2100 1,224 Mains Douglas St 168 2000 81 45,594 Mains Douglas St 156 2005 100 2105 86 1,115 71 2005 100 2105 20,621 86 504 Mains Douglas St 24,844 Mains Douglas St 85 2005 100 2105 86 608 32,265 Douglas St 111 2008 100 2108 89 779 Mains 272 2111 93,134 Mains 2011 100 92 2,222 Douglas St 70,326 Mains Douro St 206 1920 100 2020 1 suggested for 10 year capital forecast 70,326 27,533 Mains Douro St 80 1920 100 2020 1 suggested for 10 year capital forecast 27,533 61,711 Mains Douro St 180 1920 100 2020 1 suggested for 10 year capital forecast 61,711 31,245 Mains 91 1920 100 2020 1 31,245 Douro St suggested for 10 year capital forecast 33,141 Mains Douro St 97 1920 100 2020 1 33,141 suggested for 10 year capital forecast 31,287 1 91 100 Mains Douro St 1920 2020 suggested for 10 year capital forecast 31,287 32,077 1 Mains Douro St 94 1920 100 2020 suggested for 10 year capital forecast 32,077 Mains Douro St 264 1920 100 2020 90,229 1 suggested for 10 year capital forecast 90,229 86,531 253 1920 100 2020 86,531 Mains Douro St 1 suggested for 10 year capital forecast 16,711 Mains Douro St 49 1939 100 2039 20 1,022 6,406 100 Mains Douro St 22 1963 2063 44 220 7,202 Mains Douro St 25 1963 100 2063 44 248 5,226 Mains Douro St 18 1963 100 2063 44 180 Mains 17 1963 100 2063 4,961 44 171 Douro St 148,077 433 44 5,092 Mains Douro St 1963 100 2063 21,664 Mains Douro St 71 1964 100 2064 45 735 126,368 Douro St 369 1964 100 2064 45 4,285 Mains 6,703 227 Mains Douro St 20 1964 100 2064 45 117,869 Mains Douro St 344 1965 100 2065 46 3,943 35,358 Mains 103 100 2066 47 1,167 Douro St 1966 16,750 100 Mains Douro St 57 1968 2068 49 539 19,389 Douro St 64 1969 100 2069 50 617 Mains 4,305 Mains Douro St 15 1920 2020 1 suggested for 10 year capital forecast 4,305 66,576 Mains 228 1923 100 2023 4 suggested for 10 year capital forecast 66,576 Dover St 7,179 Downie St 1931 100 2031 12 Mains 25 679 29,450 Downie St Mains 101 1931 100 2031 12 2,785 56,780 Mains Downie St 195 1931 100 2031 12 5,369 16,791 Mains Downie St 58 1931 100 2031 12 1,588 43,064 Mains Downie St 148 1931 100 2031 12 4,072 21,615 Downie St 2,044 Mains 74 1931 100 2031 12 6,199 21 1931 100 586 Mains Downie St 2031 12 2,955 Mains Downie St 10 1939 100 2039 20 181 21,793 Mains Downie St 75 1939 100 2039 20 1,333 Downie St 29,307 Mains 101 1939 100 2039 20 1,792 4,620 100 2039 20 283 Mains Downie St 16 1939 26,558 Mains Downie St 91 100 1,624 1939 2039 20 34,139 Mains Downie St 117 1939 100 2039 20 2,088 3,637 Downie St 12 1939 100 2039 20 222 Mains Downie St 69 1939 100 2039 20,108 20 1,230 Mains 53,734 2039 20 3,286 Downie St 184 1939 100 Mains Mains 31,854 Downie St 109 1939 100 2039 20 1,948

32,213

28,330

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20

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2039

Downie St

Downie St

Mains

Mains

1,970

1,733



					City of Stra Waterma				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Downie St	43	1939	100	2039	12,539	20	767	-
Mains	Downie St	2	1939	100	2039	615	20	38	-
	Downie St	110	1940	100	2040	32,122	21	1,888	-
Mains	Downie St	97	1948	100	2048	28,147 43,825	29	1,289	-
	Downie St  Downie St	150 141	1959 1965	100 100	2059 2065	43,625	40 46	1,602 1,373	-
	Downie St	51	2008	100	2108	14,815	89	358	-
Mains	Downie St	9	2008	100	2108	2,492	89	60	-
	Downie St	14	2013	100	2113	4,028	94	95	=
	Downie St	45	2013	100	2113	13,125 28,237	94	311	- 00.007
	Dufferin St  Dufferin St	97 88	1914 1914	100 100	2019 2019	25,652	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	28,237 25,652
	Dufferin St	40	1914	100	2019	11,691	0	suggested for 10 year capital forecast	11,691
Mains	Dufferin St	110	1914	100	2019	32,093	0	suggested for 10 year capital forecast	32,093
	Dufferin St	84	1914	100	2019	24,410	0	suggested for 10 year capital forecast	24,410
	Dufferin St	149	1914	100	2019	43,425 20,837	0	suggested for 10 year capital forecast	43,425
	Dufferin St Dufferin St	71 6	1931 1964	100 100	2031 2064	1,833	12 45	1,970 62	-
	Dufferin St	61	1964	100	2064	22,406	45	760	-
Mains	Dufferin St	270	1965	100	2065	99,250	46	3,320	-
	Dufferin St	218	1965	100	2065	80,181	46	2,682	=
	Dufferin St	5	1994	100	2094	1,399 8,759	75	36	-
	Dufferin St  Dufferin St	30 23	2008 2008	100 100	2108 2108	6,593	89 89	211 159	-
	Dufferin St	10	2008	100	2108	2,816	89	68	-
Mains	Dufferin St	11	2008	100	2108	3,101	89	75	-
	Dufferin St	151	2015	100	2115	44,119	96	1,037	-
	Dufferin Tower	5	1964	100	2064	1,679 19,841	45	57	=
	Dufferin Tower Dufferin Tower	54 29	1964 1964	100 100	2064 2064	11,902	45 45	673 404	-
	Duke St	239	1997	100	2097	69,654	78	1,771	-
Mains	Dunlop PI	174	1991	100	2091	59,377	72	1,563	-
	Dunlop PI	81	1991	100	2091	23,466	72	618	-
	Dunlop PI	10	1991	100	2091	3,346 5,695	72	88	-
	Dunlop PI Dunlop PI	20 23	1991 2009	100 100	2091 2109	7,716	72 90	150 186	-
	Dunlop PI	7	2009	100	2109	2,320	90	56	-
Mains	Dunlop PI	29	2009	100	2109	9,881	90	238	=
	Dunlop PI	13	2009	100	2109	4,421	90	106	-
	Dunn Rd Dunn Rd	17 230	1986 1986	100 100	2086 2086	5,119 78,671	67 67	139 2,142	-
	Dunn Rd	27	1986	100	2086	8,133	67	22,142	-
	Dunn Rd	15	2001	100	2101	4,550	82	113	-
Mains	Dunn Rd	19	2001	100	2101	5,651	82	141	-
	Dunn Rd	770	2001	100	2101	263,592	82	6,566	-
	Durkin St Durkin St	49 65	2009 2009	100 100	2109 2109	16,858 22,254	90 90	405 535	-
	Eagle Dr	207	1998	100	2098	60,345	79	1,526	
	Earl St	100	1924	100	2024	29,109	5	suggested for 10 year capital forecast	29,109
Mains	Earl St	197	1924	100	2024	57,535	5	suggested for 10 year capital forecast	57,535
	Earl St	4	2003	100	2103	1,087	84	27	-
	Easson St Easson St	11 261	1954 1954	100 100	2054 2054	3,101 76,200	35 35	124 3,048	-
	Easson St	166	1954	100	2054	46,140	37	1,777	-
	Easson St	161	1956	100	2056	44,944	37	1,731	-
	Easson St	169	2015	100	2115	49,167	96	1,156	-
	Easson St	161	2015	100	2115	47,034	96	1,106	-
	East Gore St East Gore St	66 255	1931	100	2031	19,123 74,186	12 12	1,808	<u>-</u>
	East Gore St	255 93	1931 1932	100 100	2031 2032	27,118	12	7,015 2,390	-
	East Gore St	86	1932	100	2032	25,127	13	2,214	-
Mains	Edison Cres	237	1991	100	2091	68,975	72	1,816	=
	Egan Crcl	54	1978	100	2078	15,675	59	455	-
	Elgin Cres	233 240	1964	100	2064	68,031 70,080	45 45	2,307	-
	Elgin Cres Elgin Cres	117	1964 1964	100 100	2064 2064	34,093	45 45	2,376 1,156	
	Elgin Cres	128	1964	100	2064	37,305	45	1,265	-
Mains	Elgin Cres	81	1964	100		23,696	45	804	-
	Elizabeth St	301	1995	100	2095	87,702	76	2,255	-
	Elizabeth St	332	2002	100		96,848	83	2,401	-
	Elm St Elm St	101 97	2007 2007	100 100	2107 2107	29,301 28,240	88 88	710 685	-
	Erie St	236	1912	100		68,783	0	suggested for 10 year capital forecast	68,783
	Erie St	263	1912	100	2019	76,530	0	suggested for 10 year capital forecast	76,530
Mains	Erie St	154	1912	100	2019	44,941	0	suggested for 10 year capital forecast	44,941



American   Company   Com						City of Stra Waterma				
Maries   Circ St	Asset	Street				Replacement	Total Main Replacement		Annual Lifecycle Contribution	be included in 10 year
Marie   Se   19   19   19   19   19   19   19   1	Mains	Erie St	37	1912	100	2019	10,898	0	suggested for 10 year capital forecast	10,898
Marie De S. 12   161   100   2021   3.407   2   suggested for Oyen capital forcess of the force of the company	Mains	Erie St	64	1921	100	2021	18,593	2		18,593
Marce   Fine St	Mains	Erie St	29	1921	100	2021		2	suggested for 10 year capital forecast	8,508
Marcon   M	Mains									
Mare   Car S	Mains									
Mano			1							
Mores   Fine St									, ,	
Marcon   Fire S		•	1							
Maries Cere St. 47   1901   100   2001   13,559   12   1,202   1, 1,202   1, 1,202   1, 1,202   1, 1,203   1,	Mains						3,407			-
Name Care St	Mains	Erie St	19	1931	100	2031	5,471	12	517	-
Moles Circle 5	Mains	Erie St			100				1,282	-
Molers Cere St	Mains									
Mahame Care St										
Mellers B Est 9 120 1901 1000 2001 143.701 422 5.000 1  Minan E Ris St 1 120 1905 1000 2005 43.701 44 1 1.4.401 1.4.501  Minan E Ris St 1 120 1905 1000 2005 42.701 44 1 1.4.501  Minan E Ris St 1 120 1905 1000 2007 10.051 44 1 1.4.501  Minan E Ris St 1 150 1970 1000 2070 13.080 51 1 1.000 1  Minan E Ris St 1 150 1970 1000 2070 13.080 51 1 2.000 200 1  Minans E Ris St 1 150 1970 1000 2070 13.080 51 1 2.000 1  Minans E Ris St 1 150 1970 1000 2070 13.080 51 1 2.000 1  Minans E Ris St 1 150 1994 1000 2070 18.075 51 1 3.577  Minans E Ris St 1 150 1994 1000 2070 18.075 70 112  Minans E Ris St 1 150 1994 1000 2070 18.075 70 112  Minans E Ris St 1 150 1994 1000 2070 1  Minans E Ris St 1 150 1994 1000 2070 1  Minans E Ris St 1 150 1994 1000 2070 1  Minans E Ris St 1 150 1994 1000 2070 1  Minans E Ris St 1 150 1994 1000 2070 1  Minans E Ris St 1 201 1000 1000 2070 1000 82.201 170 170 112  Minans E Ris St 1 201 1000 1000 2070 18.050 87 7 2  Minans E Ris St 1 201 1000 2110 15  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2110 15  Minans E Ris St 1 150 1994 1000 2111 15  Minans E Ris St 1 150 1994 1000 2111 15  Minans E Ris St 1 150 1994 1000 2111 15  Minans E Ris St 1 150 1994 1000 2111 15  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2111 15  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2111 15  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2111 15  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2070 18.050 87 7 2  Minans E Ris St 1 150 1994 1000 2070 18.050 8		İ								
Melmin Ellis St. 108 1 108 1092 100 2003 4 10. 2003 4 14 1.880  Melmin Ellis St. 128 1092 100 2003 4 10. 2003 4 14 1 1.880  Melmin Ellis St. 108 1097 100 2007 10.855 4 4 1 1.880  Melmin Ellis St. 105 107 100 2007 10. 2007 10.855 4 4 1 1.880  Melmin Ellis St. 105 107 100 2007 10. 2007 10.855 4 4 1 1.800  Melmin Ellis St. 105 107 100 2007 10. 2007 10.855 4 4 1 1.800  Melmin Ellis St. 105 107 100 2007 10. 2007 10. 200 11 1.000  Melmin Ellis St. 103 1070 100 2007 10. 2007 10. 200 11 1.000  Melmin Ellis St. 103 1070 100 2007 10. 2007 10. 200 11 1.000  Melmin Ellis St. 104 100 2004 4 1.000 2004 1.000 200  Melmin Ellis St. 104 100 2004 1.000 2004 1.000 200  Melmin Ellis St. 104 100 2004 1.000 2004 1.000 200  Melmin Ellis St. 104 100 2004 1.000 2004 1.000 200  Melmin Ellis St. 104 100 2004 1.000 200  Melmin Ellis St. 105 100 200 200 200  Melmin Ellis St. 105 100 200 200 200 200  Melmin Ellis St. 105 100 200 200 200 200  Melmin Ellis St. 105 201 100 2111 100 2111 10. 1000 200  Melmin Ellis St. 105 201 100 2111 100 2111 100 200  Melmin Ellis St. 100 200 100 2006 100 2000 100 200  Melmin Ellis St. 100 200 100 2006 100 200  Melmin Ellis St. 100 200 100 2006 100 200  Melmin Ellis St. 100 200 100 200 100 200  Melmin Ellis St. 100 200 100 200 100 200  Melmin Ellis St. 100 200 100 200 100 200  Melmin Ellis St. 100 200 100 200 100 200  Melmin Ellis St. 100 200 100 200 100 200  Melmin Ellis St. 100 200 100 200 100 200  Melmin Ellis St. 100 200 100 200 100 200  Melmin Ellis St. 100 200  Melmin Ellis St			1							
Marie   Ene St   120   1903   100   2005   142   144   1.451	Mains								*	
Memory   Cris St   106   1970   100   2970   31,800   51   3,000   3	Mains	•		1963			42,194	44		
Maris Cele St	Mains	Erie St	39	1967	100	2067	10,851	48	354	-
Mains Ene St 332 1970 100 2070 113,537 51 3,372  Mains Ene St 21 21 1987 100 2087 6,071 6,88 1 166  Mains Ene St 1 18 1984 100 2084 4,300 78 1112  Mains Ene St 32 22 2005 100 2106 9,906 88 22 20  Mains Ene St 22 2005 100 2106 9,906 88 22 20  Mains Ene St 22 2005 100 2106 9,906 88 22 20  Mains Ene St 22 2005 100 2108 82 29 87 2,2006  Mains Ene St 22 2005 100 2108 82 29 87 2,2006  Mains Ene St 1 18 2005 100 2108 82 29 87 2,2006  Mains Ene St 1 18 2011 100 2111 55,044 92 11,208  Mains Ene St 1 18 2011 100 2111 17,145 92 2 4,00  Mains Ene St 4 2011 100 2111 1,00 20 20 30 87 1 10 10  Mains Ene St 4 2011 100 2111 1,00 20 20 30 87 1 10 10  Mains Ene St 4 2011 100 2111 1,00 20 20 30 87 1 10 10  Mains Ene St 4 2011 100 2111 1,00 20 20 30 87 1 10 10  Mains Ene St 4 2011 100 2111 1,00 20 20 30 87 1 10 10  Mains Ene St 4 2011 100 2111 1,00 20 80 92 3 31  Mains Ene St 4 9 1964 100 2064 9,2000 45 90 90 90  Mains Ene St 7 79 1964 100 2064 9,2000 45 90 90 90  Mains Ene St 9 90 90 90 90 90 90 90 90 90 90 90 90 9	Mains	Erie St	105	1970	100	2070	· · · · · · · · · · · · · · · · · · ·	51	1,003	-
Manns Ene St 221 1987 1900 2004 4.330 75 112  Manns Ene St 31 10 1994 1900 2004 4.330 75 112  Manns Ene St 32 2005 1900 2106 9.398 66 2.255  Manns Ene St 228 2008 1900 2106 8.398 66 2.255  Manns Ene St 228 2008 1900 2106 8.398 86 6 2.255  Manns Ene St 228 2008 1900 2106 8.398 87 2.2.46  Manns Ene St 228 2008 1900 2106 8.398 87 2.2.46  Manns Ene St 32 2008 1900 2106 8.398 87 2.2.46  Manns Ene St 32 2008 1900 2106 8.398 87 2.2.46  Manns Ene St 32 2008 1900 2106 8.398 87 2.2.46  Manns Ene St 32 2008 1900 2106 8.398 87 2.2.46  Manns Ene St 32 2008 1900 2106 8.398 87 2.2.46  Manns Ene St 32 2008 1900 2106 8.398 87 2.2.46  Manns Ene St 32 2008 1900 2106 8.398 87 2.2.46  Manns Ene St 32 2008 1900 2111 100 2004 100 2004	Mains									-
Maries Ciric SI 19 1994 100 2094 1.4330 77 1112 12 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Mains									=
Maris Cene St										-
Mains										
Mains   Fire St   258   2006   100   2106   88.105   87   2.145     Mains   Fire St   7   2008   110   2106   2.303   87   58     Mains   Fire St   158   2011   100   2111   17,149   92   402   402   403     Mains   Fire St   4   2011   100   2111   17,149   92   402   403     Mains   Fire St   4   2011   100   2111   1,003   92   31     Mains   Eric St   4   2011   100   2111   1,003   92   31     Mains   Eric St   4   2011   100   2004   20.000   45   90.000   45   90.000   45   90.000   40.000   40.000   45   90.000   45   90.000   40.000   45   90.000   45	Mains		t e							
Series St	Mains									-
Mains Erie St 90 2011 100 2111 17,149 92 499 499  Mains Erie St 4 2011 100 2111 1,303 92 31  Mains Erie St 91 1864 100 2064 26,680 45 904  Mains Essex St 91 1864 100 2064 22,683 45 904  Mains Essex St 78 1884 100 2064 22,683 45 770  Mains Essex St 78 1884 100 206 100 2106 1,521 87 37 37  Mains Farifield Dr 98 2006 100 2106 22,323 87 7712  Mains Farifield Dr 99 2006 100 2106 22,337 87 7712  Mains Farifield Dr 131 2006 100 2106 22,337 87 7712  Mains Farifield Dr 131 2006 100 2106 22,337 87 97 666  Mains Farifield Dr 131 2006 100 2106 20,38,872 87 666  Mains Farifield Dr 131 2006 100 2106 20,38,872 87 655  Mains Farifield Dr 107 2010 100 2110 32,588 91 78 655  Mains Farifield Dr 32 2010 100 2110 32,588 91 78 655  Mains Farifield Dr 32 2010 100 2110 32,588 91 91 846  Mains Farifield Dr 112 2010 100 2110 32,588 91 91 846  Mains Farifield Dr 118 2010 100 2110 38,800 91 846  Mains Farifield Dr 118 2010 100 2106 100 2992 78,200 73 2,2047  Mains Farifield Dr 118 2010 100 2992 78,200 73 2,2047  Mains Farifield Dr 118 2010 100 2992 78,341 73 1,971  Mains Farifield Dr 118 2010 100 2992 78,341 73 1,971  Mains Farifield Dr 118 2010 100 2992 78,341 73 1,971  Mains Farifield Dr 118 2010 100 2006 32,340 46 78 1  Mains Farifield Dr 119 2006 100 2006 32,340 46 78 1  Mains Farifield Dr 119 2006 100 2006 32,340 46 78 1  Mains Farifield Dr 119 200 100 2006 32,340 46 78 1  Mains Farifield Dr 119 200 100 2006 32,340 46 78 1  Mains Farifield Dr 119 200 100 2006 32,340 46 78 1  Mains Farifield Dr 119 200 100 2006 32,340 46 78 1  Mains Friedlay P1 22 2010 100 2006 32,340 46 78 1  Mains Friedlay P1 24 2010 100 2006 32,340 46 78 1  Mains Friedlay P1 24 2010 100 2006 32,340 46 78 1  Mains Friedlay P1 24 2010 100 2006 32,340 46 78 1  Mains Friedlay P1 24 2010 100 2006 32,340 46 78 1  Mains Friedlay P1 24 2010 100 2006 32,340 46 78 1  Mains Friedlay P1 24 2010 100 2006 33,40 3 1  Mains Forman Ave 140	Mains		1				2,303	87		-
Melris Bese St	Mains	Erie St	155	2011	100	2111	53,044	92	1,266	-
Mains	Mains		50		100		,	92		-
Mains   Essex St   78   1964   100   2064   22,003   45   770	Mains		<u> </u>							-
Mains Farifield Dr 96 2006 100 2106 27,363 87 7,12  Mains Farifield Dr 90 2006 100 2106 27,363 87 666  Mains Farifield Dr 90 2006 100 2106 38,872 87 971  Mains Farifield Dr 131 2006 100 2106 38,872 87 971  Mains Farifield Dr 107 2010 100 2106 38,872 87 971  Mains Farifield Dr 107 2010 100 2106 38,873 91 781 781  Mains Farifield Dr 107 2010 100 2110 38,680 91 236  Mains Farifield Dr 116 2010 100 2110 38,680 91 236  Mains Farifield Dr 116 2010 100 2110 38,680 91 87 81 846  Mains Farifield Dr 116 2010 100 2110 38,680 91 846  Mains Farifield Dr 116 2010 100 2110 38,680 91 846  Mains Farifield Dr 116 2010 100 2110 38,680 91 846  Mains Farifield Dr 116 2010 100 2002 78,220 73 2.0.47  Mains Farifield Dr 116 2010 100 2002 78,220 73 1 2.0.47  Mains Farifield Dr 116 2010 100 2002 78,220 73 1 1,171  Mains Farifield Dr 28 100 2002 78,241 73 1,171  Mains Farifield Dr 28 100 2002 123,088 43 4,296  Mains Farifield Dr 20 80 100 2002 123,088 43 4,296  Mains Finday Pl 11 2006 100 2002 123,088 43 4,296  Mains Finday Pl 11 2006 100 2006 23,000 87 78 78 78 78  Mains Finday Pl 27 2010 100 2010 38,083 91 191 191  Mains Finday Pl 27 2010 100 2110 5,989 91 191 191  Mains Finday Pl 24 2010 100 2110 5,989 91 191 191  Mains Finday Pl 28 2010 100 2110 7,729 91 191 191  Mains Finday Pl 28 2010 100 2011 7,598 91 191 182  Mains Foreman Awa 102 1940 100 2001 17,098 91 191 182  Mains Foreman Awa 102 1940 100 2006 38,487 43 1,377  Mains Foreman Awa 102 1940 100 2006 38,487 43 1,1,475  Mains Foreman Awa 102 1940 100 2006 38,487 43 1,1,476  Mains Foreman Awa 103 1992 100 2002 59,945 43 1,1,446  Mains Foreman Awa 109 1975 100 2002 59,945 43 1,1,446  Mains Foreman Awa 109 1975 100 2002 59,945 43 1,1,446  Mains Foreman Awa 109 1975 100 2002 59,945 43 1,1,446  Mains Foreman Awa 109 1975 100 2006 8,550 43 3 1,1,446  Mains Foreman Awa 109 1975 100 2006 2008 45,570 50 1,1,450  Mains Foreman Awa 109 1975 100 2007 69,6		Ì								-
Mains Farifield Dr 96 2006 100 2106 27,333 87 9712  Mains Farifield Dr 90 2006 100 2106 27,333 87 666  Mains Farifield Dr 131 2006 100 2106 28,699 87 636  Mains Farifield Dr 107 2010 100 2110 32,588 91 781  Mains Farifield Dr 32 2010 100 2110 39,599 91 236  Mains Farifield Dr 116 2010 100 2110 39,599 91 236  Mains Farifield Dr 116 2010 100 2110 38,800 91 236  Mains Farifield Dr 116 2010 100 2110 38,800 91 236  Mains Farifield Dr 116 2010 100 2110 38,800 91 236  Mains Farifield Dr 116 2010 100 2110 39,599 91 236  Mains Farifield Dr 116 2010 100 210 39,599 91 3846  Mains Farifield Dr 116 2010 100 210 39,599 91 3846  Mains Farifield Dr 116 2010 100 210 39,599 91 3846  Mains Farifield Dr 116 2010 100 210 39,599 91 3846  Mains Farifield Dr 116 2010 100 2002 78,341 73 1,1971  Mains Farifield Dr 116 2010 2002 78,341 73 1,1971  Mains Farifield Dr 110 206 100 2002 78,341 73 1,1971  Mains Farifield Dr 110 206 100 2065 23,340 46 781  Mains Finday Pl 11 2006 100 210 38,598 91 1191  Mains Finday Pl 11 2006 100 210 39,599 91 1191  Mains Finday Pl 27 2010 100 210 7,972 91 1191  Mains Finday Pl 22 2010 100 210 7,972 91 1191  Mains Finday Pl 126 2010 100 210 8,988 91 188   Mains Finday Pl 26 2010 100 210 7,999 91 188   Mains Finday Pl 26 2010 100 210 7,598 91 188   Mains Finday Pl 26 2010 100 210 7,598 91 188   Mains Forman Ave 102 1940 100 2040 29,814 21 1,753  Mains Forman Ave 102 1940 100 2040 29,814 21 1,753  Mains Forman Ave 103 1962 100 2062 29,954 43 1,046  Mains Forman Ave 109 1975 100 2062 99,954 43 1,046  Mains Forman Ave 109 1975 100 2062 18,389 43 1,446  Mains Forman Ave 109 1975 100 2062 18,389 43 1,446  Mains Forman Ave 109 1975 100 2062 18,389 43 1,446  Mains Forman Ave 109 1975 100 2062 18,389 43 1,446  Mains Forman Ave 119 1991 100 2091 22,217 72 5,98 5 1 2,144  Mains Forman Ave 119 1991 100 2091 22,217 72 5,98 91 1,444  Mains Forman Ave 119 1991 100 2091 22,217 72 5,98		İ								
Mains Fairfield Dr 90 2006 100 2106 27,933 87 97 971  Mains Fairfield Dr 9 86 2006 100 2106 25,099 87 97 971  Mains Fairfield Dr 9 86 2006 100 2106 32,099 87 97 971  Mains Fairfield Dr 107 2010 100 2110 32,588 91 781 781  Mains Fairfield Dr 116 2010 100 2110 32,588 91 781 846  Mains Fairfield Dr 116 2010 100 2110 38,680 91 846  Mains Fairfield Dr 116 2010 100 2110 35,5319 91 846  Mains Fairfield Dr 116 2010 100 2210 35,5319 91 846  Mains Fairfield Dr 116 2010 100 2210 73,5319 91 846  Mains Fairfield Dr 116 2010 100 2002 75,341 73 2,047  Mains Fairfield Dr 2002 100 2002 75,341 73 1,1971  Mains Fairfield Dr 2002 100 2002 75,341 73 1,1971  Mains Fairfield Dr 2004 100 2002 120,888 43 1,295  Mains Fairfield Dr 2004 100 2002 120,888 43 1,295  Mains Fairfield Dr 2006 100 2006 123,306 87 78 78  Mains Finday Pl 11 2006 100 2106 3,306 87 78 78  Mains Finday Pl 27 2010 100 210 5,988 91 191 191  Mains Finday Pl 24 2010 100 210 7,972 91 191 191  Mains Finday Pl 26 2010 100 210 7,989 91 878  Mains Finday Pl 28 2010 100 210 7,989 91 878  Mains Forenan Tower 33 1991 100 2001 12,054 72 1317  Mains Forenan Ave 102 1940 100 2011 7,598 91 182  Mains Forenan Ave 103 1962 100 2062 39,467 43 1,1377  Mains Forenan Ave 103 1962 100 2062 39,467 43 1,1377  Mains Forenan Ave 103 1962 100 2062 39,467 43 1,1377  Mains Forenan Ave 104 1992 100 2062 39,954 43 1,1421  Mains Forenan Ave 105 1999 100 2062 39,954 43 1,1421  Mains Forenan Ave 106 1991 100 2009 2009 2009 39,955 43 1,145  Mains Forenan Ave 106 1991 100 2009 2009 2009 39,955 43 1,145  Mains Forenan Ave 107 1991 100 2009 2009 39,955 43 1,145  Mains Forenan Ave 108 1997 100 2009 2009 39,955 43 1,145  Mains Forenan Ave 109 1997 100 2009 2009 39,955 43 1,145  Mains Forenan Ave 109 1997 100 2009 2009 39,955 43 1,145  Mains Forenan Ave 109 1997 100 2009 2009 2009 39,955 44 30 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 30,000 3			1							
Mains         Fairfield Dr         86         2006         100         2108         26,089         87         638         .           Mains         Fairfield Dr         107         2010         100         2110         32,888         91         781         .           Mains         Fairfield Dr         116         2010         100         2110         39,860         91         236         .           Mains         Fairfield Dr         116         2010         100         2110         35,319         91         846         .           Mains         Faistaff St         288         1992         100         2092         78,220         73         2,047         .           Mains         Faistaff St         258         1992         100         2092         75,341         73         1,971         .           Mains         Fem St         80         1962         100         2066         23,404         46         781         .           Mains         Findlay Pl         11         2006         100         2106         3,206         87         78         .           Mains         Findlay Pl         24         2010         100 </td <td>Mains</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Mains									
Mains Fielfeld Dr 107 2010 100 2110 32.588 91 781 781	Mains	Fairfield Dr	131	2006	100	2106	39,872	87	971	-
Mains         Fairfield Dr         32         2010         100         2110         9,880         91         236         -           Mains         Fairfield Dr         116         2010         100         2110         35,319         91         846         -           Mains         Falstaff St         288         1992         100         2092         76,220         73         2,047         -           Mains         Falstaff St         288         1992         100         2092         75,341         73         1,971         -           Mains         Felck Cres         422         1962         100         2062         123,088         43         4,295         -           Mains         Findlay Pl         11         2006         100         2066         23,340         46         781         -           Mains         Findlay Pl         11         2006         100         2106         3,206         87         78         -           Mains         Findlay Pl         24         2010         100         2110         7,972         91         191         196         -           Mains         Findlay Pl         26         2010 </td <td>Mains</td> <td>Fairfield Dr</td> <td>86</td> <td>2006</td> <td>100</td> <td>2106</td> <td></td> <td>87</td> <td>635</td> <td>-</td>	Mains	Fairfield Dr	86	2006	100	2106		87	635	-
Mains         Fairfield Dr         116         2010         100         2110         35,319         91         846	Mains									
Mains         Falstaff St         268         1992         100         2092         78,220         73         2,047         -           Mains         Felstaff St         258         1992         100         2092         75,341         73         1,971         -           Mains         Felock Cres         422         1962         100         2062         123,088         43         4,295         -           Mains         Field Ko Kres         422         1962         100         2065         23,340         46         781         -           Mains         Findlay Pl         11         2006         100         2110         3,208         87         78         -           Mains         Findlay Pl         27         2010         100         2110         6,998         91         118         -           Mains         Findlay Pl         124         2010         100         2110         36,663         91         87         78         -           Mains         Findlay Pl         26         2010         100         2110         36,663         91         182         -           Mains         Forman Ave         102         2940<	Mains									
Mains         Falstalf St         258         1992         100         2092         75,341         73         1,971         -           Mains         Feick Cres         422         1962         100         2062         123,088         43         4,295         -           Mains         Findlay PI         11         2006         100         2206         32,340         46         781         -           Mains         Findlay PI         11         2006         100         2106         3,206         87         78         -           Mains         Findlay PI         27         2010         100         2110         7,972         91         191         191         -           Mains         Findlay PI         126         2010         100         2110         36,663         91         68         -           Mains         Findlay PI         26         2010         100         2110         7,598         91         182         -           Mains         Forman Tower         33         1991         100         204         29,814         21         1,753         -           Mains         Forman Ave         102         1940			1							-
Mains         Feick Cres         422         1962         100         2062         123,088         43         4,295         -           Mains         Fem St         80         1965         100         2065         23,340         46         781         -           Mains         Findlay PI         11         2006         100         2100         3,206         87         78         -           Mains         Findlay PI         27         2010         100         2110         7,972         91         191         191         -           Mains         Findlay PI         24         2010         100         2110         6,998         91         168         -           Mains         Findlay PI         26         2010         100         2110         7,598         91         182         -           Mains         Findlay PI         26         2010         100         2091         12,054         72         317         -           Mains         Forman Nae         102         1940         100         2091         12,054         72         317         -           Mains         Forman Ave         103         1962			1							<u>-</u> _
Mains         Fem St         80         1965         100         2065         23,340         46         781         -           Mains         Findlay PI         11         2006         100         2106         3,206         87         78         78         -           Mains         Findlay PI         27         2010         100         2110         7,972         91         191         191         -           Mains         Findlay PI         24         2010         100         2110         6,998         91         168         -           Mains         Findlay PI         126         2010         100         2110         36,683         91         878         -           Mains         Findlay PI         26         2010         100         2011         7,598         91         182         -           Mains         Forman Ave         102         1940         100         2040         29,814         21         1,753         -           Mains         Forman Ave         103         1962         100         2062         29,954         43         1,377         -           Mains         Forman Ave         103		İ	1							-
Mains         Findlay PI         27         2010         100         2110         7,972         91         191         -           Mains         Findlay PI         24         2010         100         2110         6,989         91         168         -           Mains         Findlay PI         126         2010         100         2110         7,598         91         878         -           Mains         Findlay PI         26         2010         100         2110         7,598         91         182         -           Mains         Forman Ave         102         1940         100         2091         12,054         72         317         -           Mains         Forman Ave         102         1940         100         2040         29,814         21         1,753         -           Mains         Forman Ave         103         1962         100         2062         29,844         43         1,045         -           Mains         Forman Ave         103         1962         100         2062         29,954         43         1,045         -           Mains         Forman Ave         140         1962         100	Mains									
Mains         Findlay PI         24         2010         100         2110         6,998         91         168         -           Mains         Findlay PI         126         2010         100         2110         36,663         91         878         -           Mains         Findlay PI         26         2010         100         2110         7,598         91         182         -           Mains         Forman Tower         33         1991         100         2091         12,054         72         317         -           Mains         Forman Ave         102         1940         100         2040         29,814         21         1,753         -           Mains         Forman Ave         135         1962         100         2062         39,467         43         1,377         -           Mains         Forman Ave         103         1962         100         2062         29,954         43         1,421         -           Mains         Forman Ave         140         1962         100         2062         40,715         43         1,421         -           Mains         Forman Ave         31         1962         100 </td <td>Mains</td> <td>Findlay PI</td> <td>11</td> <td>2006</td> <td>100</td> <td>2106</td> <td>3,206</td> <td>87</td> <td>78</td> <td>-</td>	Mains	Findlay PI	11	2006	100	2106	3,206	87	78	-
Mains         Findlay PI         126         2010         100         2110         36.663         91         878         -           Mains         Findlay PI         26         2010         100         2110         7.598         91         182         -           Mains         Forman Tower         33         1991         100         2091         12.054         72         317         -           Mains         Forman Ave         102         1940         100         2040         29,814         21         1,753         -           Mains         Forman Ave         135         1962         100         2062         39,847         43         1,377         -           Mains         Forman Ave         103         1962         100         2062         29,954         43         1,045         -           Mains         Forman Ave         203         1962         100         2062         59,045         43         2,060         -           Mains         Forman Ave         140         1962         100         2062         40,715         43         1,421         -           Mains         Forman Ave         31         1962         1	Mains	Findlay PI	27	2010	100	2110		91	191	-
Mains         Findlay PI         26         2010         100         2110         7,598         91         182         -           Mains         Forman Tower         33         1991         100         2091         12,054         72         317         -           Mains         Forman Ave         102         1940         100         2040         29,814         21         1,753         -           Mains         Forman Ave         135         1962         100         2062         39,467         43         1,377         -           Mains         Forman Ave         103         1962         100         2062         29,954         43         1,045         -           Mains         Forman Ave         103         1962         100         2062         59,045         43         2,060         -           Mains         Forman Ave         140         1962         100         2062         40,715         43         1,421         -           Mains         Forman Ave         56         1962         100         2062         8,936         43         3         312         -           Mains         Forman Ave         156         1969<	Mains									
Mains         Foreman Tower         33         1991         100         2091         12,054         72         317         -           Mains         Forman Ave         102         1940         100         2040         29,814         21         1,753         -           Mains         Forman Ave         135         1962         100         2062         39,467         43         1,377         -           Mains         Forman Ave         103         1962         100         2062         29,954         43         1,045         -           Mains         Forman Ave         203         1962         100         2062         59,045         43         2,060         -           Mains         Forman Ave         140         1962         100         2062         40,715         43         1,421         -           Mains         Forman Ave         56         1962         100         2062         8,936         43         3         1,421         -           Mains         Forman Ave         156         1969         100         2062         8,936         43         3         312         -           Mains         Forman Ave         156	Mains									
Mains         Forman Ave         102         1940         100         2040         29,814         21         1,753         -           Mains         Forman Ave         135         1962         100         2062         39,467         43         1,377         -           Mains         Forman Ave         103         1962         100         2062         29,954         43         1,045         -           Mains         Forman Ave         203         1962         100         2062         59,045         43         2,060         -           Mains         Forman Ave         140         1962         100         2062         16,462         43         2,060         -           Mains         Forman Ave         31         1962         100         2062         16,462         43         312         -           Mains         Forman Ave         31         1962         100         2062         8,936         43         312         -           Mains         Forman Ave         156         1969         100         2069         45,570         50         1,450         -           Mains         Forman Ave         299         1970			i i							
Mains         Forman Ave         135         1962         100         2062         39,467         43         1,377         -           Mains         Forman Ave         103         1962         100         2062         29,954         43         1,045         -           Mains         Forman Ave         203         1962         100         2062         59,045         43         2,060         -           Mains         Forman Ave         140         1962         100         2062         40,715         43         1,421         -           Mains         Forman Ave         56         1962         100         2062         16,462         43         574         -           Mains         Forman Ave         31         1962         100         2062         8,936         43         312         -           Mains         Forman Ave         156         1969         100         2069         45,570         50         1,450         -           Mains         Forman Ave         229         1970         100         2075         53,141         56         66         -           Mains         Forman Ave         109         1975         100			1							
Mains         Forman Ave         103         1962         100         2062         29,954         43         1,045         -           Mains         Forman Ave         203         1962         100         2062         59,045         43         2,060         -           Mains         Forman Ave         140         1962         100         2062         40,715         43         1,421         -           Mains         Forman Ave         56         1962         100         2062         16,462         43         3         312         -           Mains         Forman Ave         156         1962         100         2062         8,936         43         3         312         -           Mains         Forman Ave         156         1969         100         2062         8,936         43         3         312         -           Mains         Forman Ave         156         1969         100         2070         69,675         51         2,192         -           Mains         Forman Ave         229         1970         100         2075         23,314         56         696         -           Mains         Forman Ave	Mains		1							-
Mains         Forman Ave         203         1962         100         2062         59,045         43         2,060         -           Mains         Forman Ave         140         1962         100         2062         40,715         43         1,421         -           Mains         Forman Ave         56         1962         100         2062         16,462         43         31         574         -           Mains         Forman Ave         31         1962         100         2062         8,936         43         312         -           Mains         Forman Ave         156         1969         100         2069         45,570         50         1,450         -           Mains         Forman Ave         156         1969         100         2070         69,675         51         2,192         -           Mains         Forman Ave         80         1975         100         2075         23,314         56         696         -           Mains         Forman Ave         109         1975         100         2075         31,813         56         950         -           Mains         Forman Ave         16         1991 <td>Mains</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>	Mains									-
Mains         Forman Ave         140         1962         100         2062         40,715         43         1,421         -           Mains         Forman Ave         56         1962         100         2062         16,462         43         574         -           Mains         Forman Ave         31         1962         100         2062         8,936         43         312         -           Mains         Forman Ave         156         1969         100         2069         45,570         50         1,450         -           Mains         Forman Ave         229         1970         100         2070         69,675         51         2,192         -           Mains         Forman Ave         80         1975         100         2075         23,314         56         696         -           Mains         Forman Ave         109         1975         100         2075         31,813         56         950         -           Mains         Forman Ave         16         1991         100         2091         5,639         72         148         -           Mains         Franklin Dr         101         1971         100	Mains		1						•	
Mains         Forman Ave         31         1962         100         2062         8,936         43         312         -           Mains         Forman Ave         156         1969         100         2069         45,570         50         1,450         -           Mains         Forman Ave         229         1970         100         2070         69,675         51         2,192         -           Mains         Forman Ave         80         1975         100         2075         23,314         56         696         -           Mains         Forman Ave         109         1975         100         2075         31,813         56         950         -           Mains         Forman Ave         16         1991         100         2091         5,639         72         148         -           Mains         Forman Ave         73         1991         100         2091         22,217         72         585         -           Mains         Franklin Dr         101         1971         100         2071         29,467         52         917         -           Mains         Franklin Dr         158         1971         100	Mains	Forman Ave	140	1962	100	2062	40,715	43	1,421	-
Mains         Forman Ave         156         1969         100         2069         45,570         50         1,450         -           Mains         Forman Ave         229         1970         100         2070         69,675         51         2,192         -           Mains         Forman Ave         80         1975         100         2075         23,314         56         696         -           Mains         Forman Ave         109         1975         100         2075         31,813         56         950         -           Mains         Forman Ave         16         1991         100         2091         5,639         72         148         -           Mains         Forman Ave         73         1991         100         2091         22,217         72         585         -           Mains         Franklin Dr         101         1971         100         2071         29,467         52         917         -           Mains         Franklin Dr         128         2000         100         2100         37,357         81         935         -           Mains         Franklin Dr         136         2000         100 <td>Mains</td> <td>Forman Ave</td> <td>56</td> <td>1962</td> <td>100</td> <td>2062</td> <td></td> <td>43</td> <td>574</td> <td>-</td>	Mains	Forman Ave	56	1962	100	2062		43	574	-
Mains         Forman Ave         229         1970         100         2070         69,675         51         2,192         -           Mains         Forman Ave         80         1975         100         2075         23,314         56         696         -           Mains         Forman Ave         109         1975         100         2075         31,813         56         950         -           Mains         Forman Ave         16         1991         100         2091         5,639         72         148         -           Mains         Forman Ave         73         1991         100         2091         22,217         72         585         -           Mains         Franklin Dr         101         1971         100         2071         29,467         52         917         -           Mains         Franklin Dr         158         1971         100         2071         46,110         52         1,434         -           Mains         Franklin Dr         136         2000         100         2100         37,357         81         935         -           Mains         Franklin Dr         136         2000         100 </td <td>Mains</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Mains									
Mains         Forman Ave         80         1975         100         2075         23,314         56         696         -           Mains         Forman Ave         109         1975         100         2075         31,813         56         950         -           Mains         Forman Ave         16         1991         100         2091         5,639         72         148         -           Mains         Forman Ave         73         1991         100         2091         22,217         72         585         -           Mains         Franklin Dr         101         1971         100         2071         29,467         52         917         -           Mains         Franklin Dr         158         1971         100         2071         46,110         52         1,434         -           Mains         Franklin Dr         128         2000         100         2100         37,357         81         935         -           Mains         Franklin Dr         136         2000         100         2100         39,558         81         990         -           Mains         Frederick St         151         1921         100 </td <td>Mains</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Mains									
Mains         Forman Ave         109         1975         100         2075         31,813         56         950         -           Mains         Forman Ave         16         1991         100         2091         5,639         72         148         -           Mains         Forman Ave         73         1991         100         2091         22,217         72         585         -           Mains         Franklin Dr         101         1971         100         2071         29,467         52         917         -           Mains         Franklin Dr         158         1971         100         2071         46,110         52         1,434         -           Mains         Franklin Dr         128         2000         100         2100         37,357         81         935         -           Mains         Franklin Dr         136         2000         100         2100         39,558         81         990         -           Mains         Frederick St         151         1921         100         2021         44,113         2         suggested for 10 year capital forecast         44,113           Mains         Frederick St         281 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
Mains         Forman Ave         16         1991         100         2091         5,639         72         148         -           Mains         Forman Ave         73         1991         100         2091         22,217         72         585         -           Mains         Franklin Dr         101         1971         100         2071         29,467         52         917         -           Mains         Franklin Dr         158         1971         100         2071         46,110         52         1,434         -           Mains         Franklin Dr         128         2000         100         2100         37,357         81         935         -           Mains         Franklin Dr         136         2000         100         2100         39,558         81         990         -           Mains         Frederick St         151         1921         100         2021         44,113         2         suggested for 10 year capital forecast         44,113           Mains         Frederick St         281         1923         100         2023         81,995         4         suggested for 10 year capital forecast         81,995           Mains			1							
Mains         Forman Ave         73         1991         100         2091         22,217         72         585         -           Mains         Franklin Dr         101         1971         100         2071         29,467         52         917         -           Mains         Franklin Dr         158         1971         100         2071         46,110         52         1,434         -           Mains         Franklin Dr         128         2000         100         2100         37,357         81         935         -           Mains         Franklin Dr         136         2000         100         2100         39,558         81         990         -           Mains         Frederick St         151         1921         100         2021         44,113         2         suggested for 10 year capital forecast         44,113           Mains         Frederick St         281         1923         100         2023         81,995         4         suggested for 10 year capital forecast         81,995           Mains         Frederick St         143         1966         100         2066         41,770         47         1,379         -           Mains			1							
Mains         Franklin Dr         101         1971         100         2071         29,467         52         917         -           Mains         Franklin Dr         158         1971         100         2071         46,110         52         1,434         -           Mains         Franklin Dr         128         2000         100         2100         37,357         81         935         -           Mains         Franklin Dr         136         2000         100         2100         39,558         81         990         -           Mains         Frederick St         151         1921         100         2021         44,113         2         suggested for 10 year capital forecast         44,113           Mains         Frederick St         281         1923         100         2023         81,995         4         suggested for 10 year capital forecast         81,995           Mains         Frederick St         143         1966         100         2066         41,770         47         1,379         -           Mains         Frederick St         23         1968         100         2068         6,680         49         215         -           Mains	Mains									
Mains         Franklin Dr         158         1971         100         2071         46,110         52         1,434         -           Mains         Franklin Dr         128         2000         100         2100         37,357         81         935         -           Mains         Franklin Dr         136         2000         100         2100         39,558         81         990         -           Mains         Frederick St         151         1921         100         2021         44,113         2         suggested for 10 year capital forecast         44,113           Mains         Frederick St         281         1923         100         2023         81,995         4         suggested for 10 year capital forecast         81,995           Mains         Frederick St         143         1966         100         2066         41,770         47         suggested for 10 year capital forecast         81,995           Mains         Frederick St         23         1968         100         2066         41,770         47         1,379         -           Mains         Frederick St         23         1968         100         2068         6,680         49         215         -	Mains		i i							
Mains         Franklin Dr         136         2000         100         2100         39,558         81         990         -           Mains         Frederick St         151         1921         100         2021         44,113         2         suggested for 10 year capital forecast         44,113           Mains         Frederick St         281         1923         100         2023         81,995         4         suggested for 10 year capital forecast         81,995           Mains         Frederick St         143         1966         100         2066         41,770         47         1,379         -           Mains         Frederick St         23         1968         100         2068         6,680         49         215         -           Mains         Frederick St         27         1968         100         2068         9,368         49         302         -	Mains	Franklin Dr	158	1971	100	2071			1,434	-
Mains         Frederick St         151         1921         100         2021         44,113         2         suggested for 10 year capital forecast         44,113           Mains         Frederick St         281         1923         100         2023         81,995         4         suggested for 10 year capital forecast         81,995           Mains         Frederick St         143         1966         100         2066         41,770         47         1,379         -           Mains         Frederick St         23         1968         100         2068         6,680         49         215         -           Mains         Frederick St         27         1968         100         2068         9,368         49         302         -	Mains									
Mains         Frederick St         281         1923         100         2023         81,995         4         suggested for 10 year capital forecast         81,995           Mains         Frederick St         143         1966         100         2066         41,770         47         1,379         -           Mains         Frederick St         23         1968         100         2068         6,680         49         215         -           Mains         Frederick St         27         1968         100         2068         9,368         49         302         -	Mains		1							
Mains         Frederick St         143         1966         100         2066         41,770         47         1,379         -           Mains         Frederick St         23         1968         100         2068         6,680         49         215         -           Mains         Frederick St         27         1968         100         2068         9,368         49         302         -	Mains	İ								44,113
Mains         Frederick St         23         1968         100         2068         6,680         49         215         -           Mains         Frederick St         27         1968         100         2068         9,368         49         302         -										
Mains Frederick St 27 1968 100 2068 9,368 49 302 -							· · · · · · · · · · · · · · · · · · ·			
	Mains									
	Mains									



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Asset	Street	Length (m)	Year Installed	Estimated Life	Waterma Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Frederick St	29	2003	100	2103	8,485	84	209	-
Mains	Freeland Dr	30	1978	100		10,248	59	297	-
Mains	Freeland Dr	8	1978	100		2,576	59	75	=
Mains	Freeland Dr	55 68	1979 1979	100		16,852 20,709	60	485 596	<u>-</u>
Mains Mains	Freeland Dr Freeland Dr	92	1979	100		28,044	60 69	753	<u>-</u>
Mains	Freeland Dr	34	1989	100		10,447	70	279	=
Mains	Freeland Dr	65	1989	100	2089	19,805	70	528	-
Mains	Freeland Dr	47	1989	100	2089	14,194	70	379	-
Mains	Freeland Dr	33	1989	100		10,040	70	268	-
Mains	Freeland Dr	69 94	1989 1989	100		21,043 28,665	70	561 764	-
Mains Mains	Freeland Dr Freeland Dr	46	1989	100		14,063	70 70	375	<u>-</u>
Mains	Freeland Dr	93	1989	100		28,178	70	751	-
Mains	Freeland Dr	122	1989	100		37,016	70	987	-
Mains	Front St	97	1908	100	2019	28,126	0	suggested for 10 year capital forecast	28,126
Mains	Front St	11	1908	100		3,267	0	suggested for 10 year capital forecast	3,267
Mains	Front St	46	1908	100		13,282	0	suggested for 10 year capital forecast	13,282
Mains	Front St Front St	90 79	1912	100		26,375 22,938	0	suggested for 10 year capital forecast	26,375
Mains Mains	Front St	17	1912 1912	100		4,830	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	22,938 4,830
Mains	Front St	89	1921	100		25,824	2	suggested for 10 year capital forecast	25,824
Mains	Front St	82	1921	100		23,763	2	suggested for 10 year capital forecast	23,763
Mains	Front St	91	1926	100	2026	26,445	7	suggested for 10 year capital forecast	26,445
Mains	Front St	91	1926	100		26,617	7	suggested for 10 year capital forecast	26,617
Mains	Front St	93	1926	100		27,039	7	suggested for 10 year capital forecast	27,039
Mains	Front St	13		100		3,739 22,851	7	suggested for 10 year capital forecast	3,739
Mains Mains	Front St Front St	78 96	1926 1926	100		28,048	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	22,851 28,048
Mains	Front St	96	1926	100		28,074	7	suggested for 10 year capital forecast	28,074
Mains	Front St	96	2013	100		28,123	94	666	-
Mains	Gallery Stratford	24	1964	100	2064	8,130	45	276	-
Mains	Gallery Stratford	36	1964	100		12,451	45	422	-
Mains	Galt Rd	108	1977	100		31,379	58	919	=
Mains Mains	Galt Rd Gemmell Ct	105 107	1987 1993	100		30,656 31,318	68 74	829 814	-
Mains	George St E	107	1939	100		2,793	20	171	<u>-</u>
Mains	George St E	43	1939	100		12,457	20	762	-
Mains	George St E	84	1939	100	2039	24,503	20	1,499	-
Mains	George St E	9	1992	100	2092	2,711	73	71	-
Mains	George St W	98	2004	100		28,531	85	701	-
Mains	George St W	43	2004	100		12,623 816	85	310	-
Mains Mains	George St W George St W	3 4	2004 2010	100		1,076	85 91	20 26	-
Mains	Glastonbury Cres	30	1946	100		8,636	27	417	
Mains	Glastonbury Cres	41	1946	100		12,037	27	581	-
Mains	Glastonbury Cres	219	1952	100	2052	63,939	33	2,665	=
Mains	Glastonbury Cres	106	1953	100		31,006	34	1,266	-
Mains	Glastonbury Dr	102	1946	100		29,718 6,048	27	1,435	-
Mains Mains	Glastonbury Dr Glastonbury Dr	109	1946 1946	100		31,886	27 27	292 1,540	-
Mains	Glastonbury Dr	120	1946	100		35,051	27	1,693	<u>-</u>
Mains	Glastonbury Dr	75	1952	100		21,778	33	908	-
Mains	Glastonbury Dr	141	1952	100		41,172	33	1,716	-
Mains	Glastonbury Dr	82	1953	100		24,008	34	980	-
Mains	Glastonbury Dr	47	1953	100		13,600	34	555	-
Mains Mains	Glastonbury Dr Glastonbury Dr	63 265	1953 1976	100		18,473 77,186	34 57	754 2,282	-
Mains	Glastonbury Dr	113	1976	100		32,924	57	973	
Mains	Glastonbury Dr	41	1976	100		11,831	57	350	<u>-</u>
Mains	Glendon Rd	90	1963	100		30,961	44	1,065	-
Mains	Glendon Rd	210	1963	100		71,989	44	2,476	-
Mains	Glendon Rd	134	1965	100		39,100	46	1,308	-
Mains	Glendon Rd	33	1965	100		9,674 31,359	46	324	-
Mains Mains	Glendon Rd Glendon Rd	108 120	1966 1966	100		34,941	47 47	1,035 1,154	-
Mains	Glendon Rd	67	1966	100		19,435	47	642	<u> </u>
Mains	Glendon Rd	175	1966	100		51,032	47	1,685	-
Mains	Glendon Rd	184	1972	100		53,484	53	1,646	-
Mains	Glendon Rd	13	1972	100		3,900	53	120	-
Mains	Glendon Rd	86	1973	100		25,118	54	765	-
Mains Mains	Gordon St Gordon St	166 252	1956 1956	100		48,491 73,379	37 37	1,867 2,826	<u>-</u>
Mains	Graff Ave	45	1966	100		13,148	47	2,820	<u>-</u>
Maine	Croff Ave	124	1067	100		36.054		1 175	· .

36,054

48

124

1967

100

2067

Mains

Graff Ave

1,175



					City of Str				
Asset	Street	Length (m)	Year Installed	Estimated Life	Waterm Replacement Year	Total Main	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Graff Ave	52	1967	100	2067	15,054	48	491	-
Mains	Graff Ave	121	1967	100	2067	35,221	48	1,148	=
Mains	Graff Ave	86	1967	100	2067	29,480	48	961	-
Mains	Graff Ave	77	1967	100	2067	26,411	48	861	-
Mains	Graff Ave Graff Ave	97 79	1971	100	2071 2071	28,403 23,011	52 52	884	-
Mains Mains	Graff Ave	46	1971 1971	100 100	2071	13,454	52	716 419	-
Mains	Graff Ave	70	1971	100	2071	20,277	52	631	-
Mains	Graham Cres	192	1976	100	2076	55,859	57	1,651	-
Mains	Graham Cres	302	1976	100	2076	88,013	57	2,602	
Mains Mains	Grange St Grange St	265 252	1926 1927	100 100	2026 2027	73,966 70,331	7 8	suggested for 10 year capital forecast suggested for 10 year capital forecast	73,966
Mains	Grant St	135	1950	100	2050	39,237	31	1,711	70,331
Mains	Grant St	103	2003	100	2103	29,925	84	738	-
Mains	Greenberg PI	11	2006	100	2106	3,206	87	78	
Mains	Greenberg PI	90	2006	100	2106	26,220	87	638	-
Mains	Greenberg PI	42	2010	100	2110	12,376	91	296	-
Mains	Greenberg PI	71	2010	100	2110	20,627	91	494	-
Mains Mains	Greenberg PI Greenberg PI	16 71	2010 2010	100 100	2110 2110	4,617 20,604	91 91	111 493	-
Mains	Greenwood Dr	105	1976	100	2076	31,919	57	944	-
Mains	Greenwood Dr	120	1976	100	2076	36,588	57	1,082	-
Mains	Greenwood Dr	115	1977	100	2077	34,845	58	1,020	-
Mains	Greenwood Dr	69	1977	100	2077	21,010	58	615	-
Mains	Greenwood Dr	107	1977	100	2077	32,661	58	957	-
Mains	Greenwood Dr	120	1977	100	2077	36,490 17,935	58	1,069	-
Mains Mains	Greenwood Dr Greenwood Dr	59 152	1977 1987	100 100	2077 2087	46,189	58 68	525 1,249	-
Mains	Greenwood Dr	81	1987	100	2087	24,629	68	666	
Mains	Greenwood Dr	45	1987	100	2087	13,656	68	369	
Mains	Greenwood Dr	71	1987	100	2087	21,563	68	583	-
Mains	Greenwood Dr	79	1987	100	2087	24,075	68	651	-
Mains	Greenwood Dr	75	1987	100	2087	22,801	68	616	
Mains Mains	Gregory Cres Griffith Rd	378 12	2001 1976	100 100	2101 2076	110,098 3,521	82 57	2,743 104	-
Mains	Griffith Rd	19	1976	100	2076	5,415	57	160	
Mains	Griffith Rd	216	1976	100	2076	73,847	57	2,183	-
Mains	Griffith Rd	26	1976	100	2076	8,930	57	264	=
Mains	Griffith Rd	81	1979	100	2079	23,646	60	680	
Mains	Griffith Rd	62	1979	100	2079	21,302	60	613	
Mains Mains	Griffith Rd Griffith Rd	29 411	1979 1979	100 100	2079 2079	10,056 140,762	60 60	289 4,049	
Mains	Griffith Rd	293	1987	100	2079	100,186	68	2,708	
Mains	Griffith Rd	13	1988	100	2088	3,690	69	99	
Mains	Griffith Rd	11	1989	100	2089	3,134	70	84	-
Mains	Griffith Rd	12	2010	100	2110	3,398	91	81	-
Mains	Griffith Rd W	22	1989	100	2089	6,272	70	167	-
Mains	Griffith Rd W Griffith Rd W	146 97	1991 1991	100 100	2091 2091	49,903 33,100	72 72	1,314 871	-
Mains Mains	Griffith Rd W	88	1991	100	2091	30,068	72	792	-
Mains	Griffith Rd W	9	1991	100	2091	2,949	72	78	-
Mains	Griffith Rd W	22	1991	100	2091	7,668	72	202	-
Mains	Griffith Rd W	69	2009	100	2109	23,506	90	565	-
Mains	Griffith Rd W	232	2009	100	2109	79,222 1,705	90	1,905	-
Mains	Griffith Rd W	6	2009	100	2109	78,739	90	41	=
Mains Mains	Guelph St Guelph St	270 128	1931 1931	100 100	2031 2031	37,415	12 12	7,446 3,538	-
Mains	Guelph St	129	2017	100	2117	37,578	98	878	-
Mains	Guthrie Ave	153	1948	100	2048	44,684	29	2,046	-
Mains	Hahn Ct	25	1991	100	2091	8,639	72	227	-
Mains	Hahn Ct	78	1991	100	2091	22,772	72	600	
Mains	Haig St	214 99	1950 1963	100	2050	62,467 33,880	31 44	2,723	-
Mains Mains	Haig St Hamilton St	87	1963 1971	100 100	2063 2071	25,325	52	1,165 788	
Mains	Hamilton St	14	1971	100	2071	3,958	52	123	
Mains	Harrison St	83		100		24,235	87	590	
Mains	Harrison St	83	2006	100	2106	24,157	87	588	
Mains	Henry Dr	122	1988	100	2088	35,413	69	951	-
Mains	Hesson St	176	1948	100	2048	51,333	29	2,350	
Mains	Hibernia St Hibernia St	198 250	1923 1962	100 100	2023 2062	57,759 72,817	4	suggested for 10 year capital forecast 2,541	57,759
Mains Mains	Hibernia St Hibernia St	353	1962	100	2062	102,767	43 47	3,393	-
Mains	Hibernia St	11	1973	100	2073	3,189	54	97	-
Mains	Hibernia St	112	1975	100	2075	32,650	56	974	-
	Hibernia St					29,345	69		



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Asset	Street	Length (m)	Year Installed		Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Hibernia St	272	2000	100	2100	79,290	81	1,985	-
Mains	Hibernia St	233	2000	100	2100	67,984	81	1,702	-
Mains	Hibernia St	213	2007	100	2107	61,951	88	1,502	-
Mains	Hickory Lane	97	1968	100	2068	28,185 30,024	49	908	-
Mains Mains	Hickory Lane Hillcrest Dr	103 250	1968 1950	100 100	2068 2050	72,761	49 31	967 3,172	-
Mains	Home St	143	1918	100	2019	41,749	0	suggested for 10 year capital forecast	41,749
Mains	Home St	189	1923	100	2023	54,953	4	suggested for 10 year capital forecast	54,953
Mains	Home St	14	1923	100	2023	3,944	4	suggested for 10 year capital forecast	3,944
Mains	Home St	26		100	2023	7,441	4	suggested for 10 year capital forecast	7,441
Mains Mains	Home St Home St	39 154	1931 1931	100 100	2031 2031	11,245 44,757	12 12	1,063 4,232	-
Mains	Home St	20		100	2031	5,960	12	564	_
Mains	Home St	99		100	2065	28,788	46	963	-
Mains	Home St	253	1965	100	2065	73,694	46	2,465	-
Mains	Home St	15	1965	100	2065	4,270	46	143	-
Mains	Home St	221	1965	100	2065	64,396 5,217	46	2,154	-
Mains Mains	Home St	18 19	2009 2009	100 100	2109 2109	5,646	90 90	125 136	-
Mains	Home St	50	2009	100	2109	14,538	90	350	-
Mains	Hossie Terr	350	2004	100	2104	101,975	85	2,505	-
Mains	Humber St	177	1979	100	2079	60,698	60	1,746	-
Mains	Huntingdon Ave	109	1931	100	2031	31,805	12	3,007	-
Mains	Huntingdon Ave	80	1931	100	2031	23,440	12	2,216	-
Mains	Huntingdon Ave	108	1931	100	2031	31,615 37,418	12	2,990	-
Mains Mains	Huntingdon Ave Huntingdon Ave	128 123	1962 1962	100 100	2062 2062	35,815	43 43	1,306 1,250	-
Mains	Huntingdon Ave	100	1962	100	2062	29,272	43	1,021	-
Mains	Huntingdon Ave	51	1965	100	2065	14,996	46	502	-
Mains	Huntingdon Ave	68	1965	100	2065	19,910	46	666	-
Mains	Huron St	102	1931	100	2031	29,677	12	2,806	=
Mains	Huron St	39	1931	100	2031	11,309	12	1,069	-
Mains Mains	Huron St Huron St	212 259	1937 1937	100 100	2037 2037	61,706 75,612	18 18	4,116 5,043	-
Mains	Huron St	210	1937	100	2037	61,283	18	4,088	<u>-</u>
Mains	Huron St	376	1959	100	2059	109,722	40	4,011	-
Mains	Huron St	98	1959	100	2059	28,686	40	1,049	-
Mains	Huron St	243	1960	100	2060	70,805	41	2,547	-
Mains	Huron St	100	1993	100	2093	29,047 3,990	74	755	=
Mains Mains	Huron St Huron St	12 249	1993 1993	100 100	2093 2093	85,340	74 74	104 2,219	-
Mains	Huron St	34	2000	100	2100	9,892	81	248	<u>-</u>
Mains	Huron St	16	2004	100	2104	4,559	85	112	-
Mains	Huron St	23	2004	100	2104	6,619	85	163	-
Mains	Hyde Rd	136	1999	100	2099	39,537	80	995	-
Mains	Hyde Rd	72	1999	100	2099	20,840	80	524	-
Mains Mains	Inverness St Inverness St	140 145	2007 2007	100 100	2107 2107	40,776 42,367	88 88	989 1,027	-
Mains	James St	99	1993	100	2093	28,840	74	750	-
Mains	James St	102	1993	100	2093	29,683	74	772	-
Mains	Jarvis St	42	2008	100	2108	12,134	89	293	-
Mains	Joffre St	113	1954	100	2054	31,529	35	1,261	-
Mains	Joffre St	114	2016	100	2116	33,338	97	781	-
Mains Mains	John St N	10		100	2040	2,657 26,797	21	156	-
Mains Mains	John St N John St N	92 86	1940 1940	100 100	2040 2040	25,159	21 21	1,575 1,479	-
Mains	John St N	102	1940	100	2040	29,799	21	1,752	-
Mains	John St N	93	1940	100	2040	27,234	21	1,601	-
Mains	John St N	85	1940	100	2040	24,809	21	1,458	-
Mains	John St N	129	1940	100	2040	37,555	21	2,208	-
Mains	John St N	124	1940	100	2040	36,281 57,025	21	2,133	-
Mains Mains	John St N John St N	196 3	1940 2000	100 100	2040 2100	813	21 81	3,352	-
Mains	John St N	109	2004	100	2104	31,898	85	784	
Mains	John St S	120	1914	100	2019	35,081	0	suggested for 10 year capital forecast	35,081
Mains	John St S	87		100		29,661	68	802	-
Mains	John St S	93		100		31,813	68	860	-
Mains	John St S	161	1987	100	2087	54,946 35,529	68	1,485	-
Mains Mains	John St S John St S	104 79		100 100	2087 2090	27,088	68 71	960 718	-
Mains	John St S	101	1990	100	2090	34,657	71	918	-
Mains	John St S	247	1990	100		84,348	71	2,235	-
Mains	John St S	12		100	2090	3,959	71	105	-
Mains	John St S	58		100		16,882	85	415	-
Maine	John St S	1/1	2004	100	2104	4 165	95	102	•

4,165

85

2004

100

2104

Mains

John St S

102



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Jones St	110	1931	100	2031	30,597	12	2,893	_
Mains	Jones St	129	1931	100	2031	35,939	12	3,398	-
Mains	Jones St	18	1931	100	2031	5,015	12	474	=
Mains	Jones St	4	2003	100	2103	1,238	84	31	-
Mains Mains	Jones St Jones St	13	2009 2009	100 100	2109 2109	3,763 487	90 90	90	-
Mains	Kappele Crcl	49	1968	100	2068	14,317	49	461	-
Mains	Kathryn Cres	223	1968	100	2068	65,084	49	2,096	-
Mains	Kathryn Cres	128	1973	100	2073	37,369	54	1,138	-
Mains	Kay St	110	1991	100	2091	32,035	72	843	-
Mains Mains	Kemp Cres Kemp Cres	264 157	1967 1967	100 100	2067 2067	76,929 45,897	48 48	2,508 1,496	<u>-</u>
Mains	Kemp Cres	324	1967	100	2067	94,303	48	3,074	
Mains	Kenner Cres	345	1977	100	2077	100,663	58	2,948	-
Mains	Kent Lane	250	1989	100	2089	72,866	70	1,943	-
Mains	Killoran Cres	423	1993	100	2093	123,423	74	3,210	
Mains Mains	King St King St	257 91	1914 1914	100 100	2019 2019	75,026 26,573	0	suggested for 10 year capital forecast	75,026 26,573
Mains Mains	King St	188	1914	100	2019	54,749	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	54,749
Mains	King St	40	1925	100	2025	11,635	6	suggested for 10 year capital forecast	11,635
Mains	King St	87	1998	100	2098	25,255	79	639	-
Mains	King St	14	2008	100	2108	4,188	89	101	
Mains Mains	Laurier St Lightbourne Ave	99	1922 1978	100 100	2022 2078	27,704 13,349	3 59	suggested for 10 year capital forecast 387	27,704
Mains	Lightbourne Ave	137	1978	100	2078	39,899	59	1,158	<u>-</u>
Mains	Lightbourne Ave	84	1978	100	2078	24,541	59	712	-
Mains	Lightbourne Ave	38	1978	100	2078	10,979	59	319	-
Mains	Lightbourne Ave	7	1987	100	2087	1,915	68	52	-
Mains	Lightbourne Ave	26 62	1993 2000	100 100	2093 2100	7,529 17,957	74 81	196 450	-
Mains Mains	Lightbourne Ave Lightbourne Ave	27	2000	100		7,788	81	195	<u>-</u>
Mains	Lightbourne Ave	189	2002	100	2102	55,034	83	1,364	-
Mains	Lightbourne Ave	145	2002	100	2102	42,134	83	1,045	-
Mains	Linden Ct	138	1976	100	2076	40,356	57	1,193	-
Mains Mains	Line 29 Linton Ave	750 181	2009 2008	100 100	2109 2108	256,694 61,810	90 89	6,172 1,492	<u>-</u>
Mains	Linton Ave	34	2008	100	2108	11,640	89	281	<u>-</u>
Mains	Linton Ave	1	2008	100	2108	435	89	11	-
Mains	Linton Ave	103	2008	100	2108	35,273	89	852	-
Mains	Little Thames PI	163	2011	100	2111	47,392	92	1,131	-
Mains Mains	Little Thames PI Lloyd Ct	151 82	2011 1991	100 100	2111 2091	43,897 23,763	92 72	1,047 626	<u>-</u>
Mains	Long Dr	6	1998	100	2091	1,772	79	45	<u> </u>
Mains	Long Dr	452	1998	100	2098	131,678	79	3,330	-
Mains	Long Dr	144	1998	100	2098	41,924	79	1,060	-
Mains	Lorne Ave E	213	1955	100	2055	73,046	36	2,866	-
Mains Mains	Lorne Ave E Lorne Ave E	180 209	1965 1965	100 100	2065 2065	61,639 71,486	46 46	2,062 2,391	-
Mains	Lorne Ave E	38	1965	100	2065	13,094	46	438	<u> </u>
Mains	Lorne Ave E	363	1965	100	2065	124,133	46	4,153	-
Mains	Lorne Ave E	157	1965	100	2065	53,602	46	1,793	-
Mains	Lorne Ave E	205	1965	100	2065	69,991	46	2,341	-
Mains Mains	Lorne Ave E Lorne Ave E	213 222	1965 1965	100 100	2065 2065	72,954 76,033	46 46	2,441 2,544	-
Mains	Lorne Ave E	218	1965	100	2065	74,754	46	2,501	<u> </u>
Mains	Lorne Ave E	27	1985	100	2085	7,913	66	217	-
Mains	Lorne Ave E	120	1991	100	2091	41,199	72	1,085	-
Mains	Lorne Ave E	65	1991	100	2091	22,360	72	589	-
Mains Mains	Lorne Ave E Lorne Ave E	469	1996 1996	100 100	2096 2096	160,480 4,900	77 77	4,103 125	<u>-</u>
Mains	Lorne Ave E	21	1996	100	2096	5,883	78	150	<u>-</u>
Mains	Lorne Ave E	186	1997	100	2097	54,300	78	1,381	-
Mains	Lorne Ave E	251	2008	100	2108	73,286	89	1,769	-
Mains	Lorne Ave E	14	2014	100	2114	4,174	95	98	-
Mains Mains	Lorne Ave W Lorne Ave W	257 26	1955 1958	100 100	2055 2058	87,947 8,971	36 39	3,450 333	-
Mains	Lorne Ave W	152		100	2056	52,093	44	1,791	<u> </u>
Mains	Lorne Ave W	39		100	2063	13,235	44	455	-
Mains	Lorne Ave W	21	1968	100	2068	5,804	49	187	-
Mains	Lorne Ave W	21	1968	100	2068	6,048	49	195	-
Mains	Lorne Ave W	57	1968	100	2068	19,386	49	624	-
Mains	Lorne Ave W Lorne Ave W	394 79	1968 1977	100 100	2068 2077	134,747 26,934	49 58	4,339 789	<u>-</u>
Mains							· · · · · · · · · · · · · · · · · · · ·		
Mains Mains	Lorne Ave W	108		100	2077	37,113	58	1,087	=



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Lorne Ave W	7	1978	100	2078	2,296	59	67	-
Mains	Lorne Ave W	8	1988	100	2088	2,402	69	64	-
Mains	Lorne Ave W	471	2016	100	2116	161,031	97	3,773	-
Mains	Lorne Ave W	82	2016	100	2116	28,180 14,398	97	660	-
Mains Mains	Lorne Ave W Lorne Ave. Pump House	42 26	2016 1978	100 100	2116 2078	7,677	97 59	337 223	-
Mains	Louise St	84	1923	100	2023	24,559	4	suggested for 10 year capital forecast	24,559
Mains	Louise St	12	1923	100	2023	3,533	4	suggested for 10 year capital forecast	3,533
Mains	Louise St	145	1931	100	2031	42,303	12	4,000	-
Mains	Louise St	183	1931	100	2031	53,245 41,117	12	5,035	-
Mains Mains	Louise St Louise St	141 24	1931 1931	100 100	2031 2031	7,071	12 12	3,888 669	-
Mains	Louise St	12	1931	100	2031	3,495	12	330	-
Mains	Louise St	90	1976	100	2076	26,156	57	773	-
Mains	Louise St	74	1976	100	2076	21,519	57	636	-
Mains	Louise St	10	2009	100	2109	2,848	90	68	-
Mains Mains	Louise St Louise St	20 9	2009 2009	100 100	2109 2109	5,870 2,515	90 90	141	-
Mains	Magwood Ct	146	1979	100	2079	42,487	60	1,222	-
Mains	Maitland Ave	19	2006	100	2106	5,392	87	131	-
Mains	Makins St	253	1985	100	2085	73,685	66	2,021	-
Mains	Manning Ave	105	1940	100	2040	29,399	21	1,728	-
Mains	Maple Ave	90	1966	100	2066	26,235 6,371	47	866	-
Mains Mains	Maple Ave Maple Ave	22 217	1966 1966	100 100	2066 2066	63,315	47 47	210 2,091	<u>-</u>
Mains	Maple Ave	117	1966	100	2066	34,186	47	1,129	-
Mains	Maple Ave	166	1975	100	2075	48,266	56	1,441	-
Mains	Maple Ave	197	1975	100	2075	57,418	56	1,714	-
Mains	Maple Ave	106	1975	100	2075	30,901	56	922	-
	Maple Ave	136	1975	100	2075	39,759 19,837	56	1,187	-
Mains Mains	Maple Ave Maple Ave	68 100	1975 1992	100 100	2075 2092	29,068	56 73	592 761	-
Mains	Market PI	102	1964	100	2064	29,686	45	1,007	   <b>-</b>
Mains	Market PI	109	1964	100	2064	30,522	45	1,035	- -
Mains	Market PI	111	2017	100	2117	32,265	98	754	-
Mains	Martin St	77	1956	100	2056	22,440	37	864	-
Mains Mains	Martin St Martin St	5 4	1956 2010	100 100	2056 2110	1,457 1,154	37 91	56 28	-
Mains	Matilda St	90	1968	100	2068	26,328	49	848	-
Mains	Matilda St	79	1968	100	2068	23,148	49	745	-
Mains	Matilda St	273	1968	100	2068	79,596	49	2,563	=
Mains	Matilda St	51	1968	100	2068	14,809	49	477	-
Mains	Matilda St	264	1991	100	2091	90,305 16,526	72	2,377	-
Mains Mains	Matilda St Matilda St	48 204	1991 1991	100 100	2091 2091	69,830	72 72	435 1,838	-
Mains	Matilda St	254	2000	100	2100	73,927	81	1,851	-
Mains	Matilda St	324	2015	100	2115	94,513	96	2,222	ı
Mains	Matilda St	16	2015	100	2115	5,440	96	128	-
Mains	Mayberry PI	109	1968	100	2068	31,889	49	1,027	-
Mains Mains	Mccarthy Rd E  Mccarthy Rd E	53	1967 2010	100 100	2067 2110	18,097 417	48 91	590 10	-
Mains	Mccarthy Rd E	235	2010	100	2110	80,283	91	1,923	-
Mains	Mccarthy Rd E	162	2010	100	2110	55,562	91	1,331	-
Mains	Mccarthy Rd E	27	2010	100	2110	8,269	91	198	- -
Mains	Mccarthy Rd E	7	2010	100	2110	2,068	91	50	-
Mains	Mccarthy Rd W	7 25	1976	100	2076	2,037 7,298	57 57	60	-
Mains Mains	Mccarthy Rd W Mccarthy Rd W	185	1976 1976	100 100	2076 2076	63,398	57 57	216 1,874	-
Mains	Mccarthy Rd W	131	1976	100	2076	44,990	57	1,330	
Mains	Mccarthy Rd W	100	1976	100	2076	34,328	57	1,015	-
Mains	Mccarthy Rd W	11	1976	100	2076	3,863	57	114	-
Mains	Mccarthy Rd W	455	1987	100	2087	155,742	68	4,210	-
Mains Mains	Mccarthy Rd W Mccarthy Rd W	35 196	1987 2007	100 100	2087 2107	11,811 67,226	68 88	319 1,630	<u>-</u>
Mains	Mcdonald St	253	1956	100	2056	73,714	37	2,838	
	Mcfarlane St	80	1939	100	2039	22,253	20	1,361	-
Mains	Mcfarlane St	22	1965	100	2065	6,485	46	217	-
Mains	Mcfarlane St	146	1968	100	2068	42,691	49	1,375	-
Mains	Mcfarlane St	164	1968	100	2068	47,844	49	1,541	-
Mains Mains	Mcfarlane St	11 63	2002 1987	100	2102	3,198 18,406	83 68	79	
Mains Mains	Mcgregor St Mcgregor St	102	1987 1987	100 100	2087 2087	29,849	68	498 807	-
Mains	Mcgregor St	18	1987	100	2087	5,296	68	143	
Mains	Mcgregor St	233	1990	100	2090	68,054	71	1,803	-
Mains	Mckenzie St	219	1965	100	2065	60,922	46	2,038	=



Wate	rma	ins

					Waterma	ains			
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Mckenzie St	32	1994	100	2094	8,804	75	228	-
	Mcmanus Rd	23	1999	100		6,640	80	167	-
Mains	Mcmanus Rd	239	2000	100	2100	69,803	81	1,747	-
Mains	Mcnab St	222	1931	100	2031	64,848	12	6,132	-
Mains	Mcnab St	205	1931	100	2031	59,671	12	5,642	=
Mains	Mcnab St	156	2003	100	2103	45,372	84	1,120	-
Mains	Mcqueen Ct	149	1992	100	2092	43,539	73	1,139	-
Mains	Meighen Mews	151	1976	100	2076	43,999	57	1,301	-
Mains	Mercer St	110	1931	100	2031	32,186	12	3,043	-
Mains	Mercer St	14	1931	100	2031	3,950	12	374	-
Mains	Mercer St	25	1931	100	2031	6,847	12	647	-
Mains	Mercer St	12	1931	100	2031	3,512	12	332	-
	Mercer St	117	1946	100	2046	34,005	27	1,642	=
Mains	Mercer St	4	2003	100	2103	1,137	84	28	-
Mains	Mercer St	13	2009	100		3,932	90	95	-
	Mercer St	118	2013	100		40,388	94	956	-
Mains	Milton St	263	2000	100	2100	76,731	81	1,921	-
Mains	Milton St	215	2000	100	2100	62,551	81	1,566	-
Mains	Moderwell St	38	1965	100	2065	11,052	46	370	-
	Moderwell St	146	1989	100		42,469	70	1,133	-
	Monteith Ave	132	2002	100		38,348	83	951	-
Mains	Monteith Ave	151	2002	100	2102	44,110	83	1,094	-
	Monteith Ave	30	2002	100		8,674	83	215	-
Mains	Monteith Ave	332	2003	100	2103	96,670	84	2,385	-
	Monteith Ave	99	2003	100		28,738	84	709	-
	Monteith Ave	151	2003	100		43,938	84	1,084	-
Mains	Moore St	203	2000	100	2100	59,196	81	1,482	-
Mains	Morenz Dr	110	1951	100	2051	31,936	32	1,361	-
Mains	Morgan St	162	1991	100	2091	47,322	72	1,246	-
Mains	Morgan St	134	1991	100	2091	38,957	72	1,026	-
Mains	Morgan St	85	1991	100	2091	24,906	72	656	-
Mains	Morison St	81	1956	100	2056	22,532	37	868	-
Mains	Morison St	158	1958	100	2058	46,127	39	1,715	-
Mains	Mornington Pump House	17	1963	100	2063	4,996	44	172	-
Mains	Mornington Pump House	12	1963	100	2063	4,085	44	140	-
	Mornington Pump House	21	1963	100		7,240	44	249	-
	Mornington Pump House	27	1963	100		9,351	44	322	-
	Mornington St	134	1963	100		45,736	44	1,573	-
	Mornington St	24	1963	100		7,030	44	242	-
	Mornington St	422	1963	100		144,334	44	4,963	=
	Mornington St	405	1964	100		138,559	45	4,698	-
	Mornington St	9	1970	100		2,725	51	86	-
	Mornington St	35	1970	100		10,544	51	332	-
	Mornington St	99	1970	100		30,213	51	950	-
	Mornington St	126	1970	100		38,403	51	1,208	-
	Mornington St	75	1970	100		22,664	51	713	-
	Mornington St	46	1970	100		14,078	51	443	-
	Mornington St	60	1972	100		20,577	53	633	-
	Mornington St	36	1972	100		12,434	53	383	-
	Mornington St	124	1972	100		42,277	53	1,301	-
	Mornington St	131	1972	100		44,696 15,715	53	1,375	-
	Mornington St	46	1972	100		15,715	53	484	-
	Mornington St	57	1972	100		19,551	53	602	-
	Mornington St	108	1972	100		37,076	53	1,141	-
	Mornington St	273	1989	100		93,377	70	2,490	-
	Mornington St	259	1999	100		88,714 71,423	80	2,232	
	Mowat St	245	1920	100			1	suggested for 10 year capital forecast	71,423
	Mowat St	183	1931	100		53,440	12	5,053	-
	Mowat St	12	1931	100		3,538	12	335	-
	Mowat St	224	1965	100		65,326	46	2,185	-
	Mowat St	29	1965	100		8,342	46	279	-
	Mowat St	9	2009	100		2,731	90	66	-
	Mowat St	20	2009	100		5,890	90	142	-
	Mowat St	14	2009	100		4,040	90	97	-
	Murray Hill Rd	164	1971	100		47,844	52	1,488	-
	Murray Hill Rd	36	2000	100		10,490 62,519	81	263	-
	Neal Ave	215	1965	100			46	2,091	-
	Neal Ave	61	1965	100		17,899	46	599	-
Mains	Neal Ave	72	1979	100		20,933	60	602	-
	INT. I A	102	1979	100	2079	56,107	60	1,614	-
Mains	Neal Ave	193							
Mains Mains	Nelson St	180	1915	100		52,324	0	suggested for 10 year capital forecast	52,324
Mains Mains Mains	Nelson St Nelson St	180 47	1915 1915	100	2019	13,608	0	suggested for 10 year capital forecast	13,608
Mains Mains Mains Mains	Nelson St Nelson St Nelson St	180 47 107	1915 1915 1921	100 100	2019 2021	13,608 31,070	0 2	suggested for 10 year capital forecast suggested for 10 year capital forecast	13,608 31,070
Mains Mains Mains Mains Mains Mains	Nelson St Nelson St	180 47	1915 1915	100	2019 2021 2021	13,608	0	suggested for 10 year capital forecast	13,608



					City of Str Waterm				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Nelson St	147	1923	100	2023	44,742	4	suggested for 10 year capital forecast	44,742
Mains	Nelson St	9	1964	100	2064	2,609	45	88	-
Mains	Nelson St	10		100	2079	2,959	60	85	-
Mains	Nelson St	179	1992	100	2092	52,190	73	1,366	-
Mains Mains	Nelson St Nelson St	223	1992 1994	100 100	2092 2094	64,903 2,597	73 75	1,698 67	-
Mains	Nelson St	103		100	2107	37,933	88	920	-
Mains	Nelson St	57	2007	100	2107	16,640	88	403	-
Mains	Nelson St	15		100	2107	4,675	88	113	-
Mains	Nelson St	27	2007	100	2107	7,741 5,380	88	188	-
Mains Mains	Nelson St Nethercott Dr	18 83		100 100	2107 2076	24,218	88 57	130 716	-
Mains	Nethercott Dr	268		100	2076	77,981	57	2,305	-
Mains	Nightingale PI	167	1991	100	2091	48,605	72	1,280	-
Mains	Nightingale PI	59		100	2091	17,249	72	454	-
Mains	Nile St	87	1915	100	2019	25,212	0	suggested for 10 year capital forecast	25,212
Mains Mains	Nile St Nile St	99	1915 1928	100 100	2019 2028	28,832 10,837	9	suggested for 10 year capital forecast suggested for 10 year capital forecast	28,832 10,837
Mains	Nile St	77	1930	100	2020	22,379	11	2,287	-
Mains	Nile St	101	1930	100	2030	29,385	11	3,002	
Mains	Nile St	95		100	2030	27,555	11	2,816	-
Mains	Nile St	89		100	2030	26,025	11	2,659	-
Mains	Nile St	86	1930	100	2030	24,981	11	2,553	-
Mains	Nile St	15 67	1930 1931	100 100	2030 2031	4,416 19,505	11	451 1,844	-
Mains Mains	Nile St Nile St	108		100	2031	31,472	12 12	2,976	-
Mains	Nile St	2		100	2031	560	12	53	-
Mains	Nile St	3		100	2031	732	12	69	-
Mains	Nile St	80		100	2096	23,402	77	598	
Mains	Nile St	79		100		23,072	77	590	-
Mains	Nile St	96		100		27,890 4,643	77	713	-
Mains Mains	Nile St Norfolk St	16 140		100 100	2113 2022	40,855	94	110 suggested for 10 year capital forecast	40,855
Mains	Norfolk St	228	1922	100	2022	66,381	3	suggested for 10 year capital forecast	66,381
Mains	Norfolk St	215		100		62,781	5	suggested for 10 year capital forecast	62,781
Mains	Norfolk St	209	1924	100	2024	61,041	5	suggested for 10 year capital forecast	61,041
Mains	Norfolk St	284	1954	100	2054	82,662	35	3,307	=
Mains	Norman St	169		100	2019	47,124 61,945	0	suggested for 10 year capital forecast	47,124
Mains Mains	Norman St Norman St	213 14		100 100	2019 2019	4,124	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	61,945 4,124
Mains	Norman St	119		100		34,783	1	suggested for 10 year capital forecast	34,783
Mains	Norman St	199		100	2066	58,001	47	1,915	-
Mains	Norman St	103	1985	100	2085	30,053	66	824	-
Mains	Norman St	233	1997	100	2097	67,926	78	1,727	-
Mains	Norman St	12	2005	100		3,559 79,348	86	87	-
Mains Mains	Norman St Norman St	272 122	2010 2010	100 100	2110 2110	35,416	91 91	1,900 848	-
Mains	Normandy Dr	120		100	2046	34,964	27	1,689	-
Mains	Normandy Dr	147	1946	100	2046	42,979	27	2,076	-
Mains	Normandy Dr	93	1946	100	2046	27,022	27	1,305	-
Mains	Normandy Dr	4	2003	100	2103	1,186	84	29	-
Mains	Nornabell Ct	137	2004	100	2104	39,951	85	981	-
Mains Mains	North Pointe Dr North Pointe Dr	23	2004 2004	100 100	2104 2104	6,631 6,471	85 85	163 159	-
Mains	North St	76		100	2019	21,149	0	suggested for 10 year capital forecast	21,149
Mains	North St	35		100	2019	9,763	0	suggested for 10 year capital forecast	9,763
Mains	North St	40	1924	100	2024	11,082	5	suggested for 10 year capital forecast	11,082
Mains	North St	12		100	2077	3,387	58	99	-
Mains	Northway Crcl	116		100	2089	33,685 23,947	70	898	-
Mains Mains	Norwood Ct Norwood Ct	82 99		100 100	2087 2087	23,947	68 68	647 778	-
Mains	Norwood Ct	76		100	2087	22,026	68	595	-
Mains	Norwood Ct	85		100		24,713	69	663	
Mains	Norwood Ct	146	1988	100	2088	42,446	69	1,140	-
Mains	Oak St	114		100		33,349	47	1,101	-
Mains	Oak St	101		100		29,310	47	968	
Mains Mains	Oak St Oak St	227	1966 1973	100 100		2,093 66,218	47 54	69 2,016	-
Mains	Oak St	62		100	2073	18,088	54	2,016	-
Mains	Oak St	32		100		9,467	54	288	-
Mains	Oak St	181	2008	100		52,872	89	1,277	-
Mains	Oak St	11	2009	100	2109	3,259	90	78	-
Mains	Oakdale Ave	469		100		160,470	72	4,225	-
Mains	Oakdale Ave	11	1991	100		3,090 1,570	72	81	-
Mains	Oakdale Ave	5	1991	100	2091	1,5/0	72	41	-



					City of Stra Waterma				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Oakdale Ave	326	1991	100	2091	95,000	72	2,501	-
Mains	Oakdale Ave	82	1991	100	2091	23,976	72	631	-
Mains	O'Loane Ave	81	1987	100	2087	27,649	68	747	=
Mains	O'Loane Ave	35	1988	100	2088	11,859	69	318	=
Mains	O'Loane Ave	330	1989	100	2089	112,784 97,592	70	3,008	-
Mains Mains	O'Loane Ave O'Loane Ave	285 1,153	2004	100 100	2104 2104	394,496	85 85	2,397 9,690	-
Mains	O'Loane Ave	104	2004	100	2104	35,461	85	871	-
Mains	O'Loane Ave	64	2004	100	2104	21,980	85	540	=
Mains	O'Loane Ave	0	2009	100	2109	125	90	3	=
Mains	O'Loane Ave	27	2009	100	2109	7,797	90	187	-
Mains	O'Loane Ave	1	2009	100	2109	213 8,097	90	5	=
Mains Mains	O'Loane Ave O'Loane Ave	28	2009 2009	100 100	2109 2109	280	90 90		-
Mains	O'Loane Ave	1	2009	100	2109	181	90	4	<u>-</u>
Mains	O'Loane Ave	1	2009	100	2109	204	90	5	<u> </u>
Mains	O'Loane Ave	25	2009	100	2109	7,365	90	177	-
Mains	O'Loane Ave	0	2009	100	2109	79	90	2	=
Mains	O'Loane Ave	25	2009	100	2109	7,354	90	177	-
Mains	O'Loane Ave	319	2016	100	2116	108,990	97	2,554	-
Mains	Ontario St	255	1919	100	2019	74,376	0	suggested for 10 year capital forecast	74,376
Mains	Ontario St	18	1931	100	2031	5,366 1,737	12	507	-
Mains Mains	Ontario St Ontario St	6 10	1931 1931	100 100	2031 2031	2,804	12 12	164 265	<u>-</u>
Mains	Ontario St	135	1931	100	2031	39,272	12	3,714	<u> </u>
Mains	Ontario St	40	1931	100	2031	13,597	12	1,286	=
Mains	Ontario St	209	1931	100	2031	71,346	12	6,746	-
Mains	Ontario St	126	1935	100	2035	43,070	16	3,172	-
Mains	Ontario St	149	1935	100	2035	51,097	16	3,763	-
	Ontario St	251	1935	100		85,761	16	6,316	-
Mains	Ontario St	268	1935	100	2035	91,598	16	6,746	-
Mains	Ontario St	148	1935	100	2035	41,214 36,159	16	3,035	=
Mains Mains	Ontario St Ontario St	130 28	1935 1966	100 100	2035 2066	8,251	16 47	2,663 272	<u>-</u>
Mains	Ontario St	167	1966	100	2066	57,212	47	1,889	-
Mains	Ontario St	9	1966	100	2066	2,536	47	84	-
Mains	Ontario St	129	1966	100	2066	43,977	47	1,452	-
Mains	Ontario St	502	1966	100	2066	171,645	47	5,667	-
Mains	Ontario St	172	1967	100	2067	58,693	48	1,913	-
Mains	Ontario St	117	1967	100	2067	34,128	48	1,113	-
Mains Mains	Ontario St Ontario St	247 378	1968 1990	100 100	2068 2090	84,426 129,468	49 71	2,719 3,430	<u>-</u>
Mains	Ontario St	241	1990	100	2092	82,610	73	2,161	<u>-</u>
Mains	Ontario St	150	1992	100	2092	51,217	73	1,340	-
Mains	Ontario St	43	2001	100	2101	11,857	82	295	=
Mains	Ontario St	53	2001	100	2101	14,723	82	367	=
Mains	Ontario St	23	2003	100	2103	7,702	84	190	-
Mains	Ontario St	281	2008	100	2108	82,006	89	1,980	-
Mains	Ontario St	26	2008	100	2108	7,648	89	185	-
Mains Mains	Oxford St	47	1957	100	2057	13,556 110,815	38	513	=
Mains Mains	Oxford St Oxford St	380 427	1965 2017	100 100	2065 2117	124,342	46 98	3,707 2,904	<u>-</u>
Mains	Oxford St	5	2017	100	2117	1,349	98	32	-
Mains	Oxford St	4	2017	100	2117	1,023	98	24	
Mains	Oxford St	4	2017	100	2117	1,061	98	25	-
Mains	Oxford St	4	2017	100	2117	1,294	98	30	-
Mains	Packham Ave	389	1969	100	2069	133,214	50	4,239	-
Mains	Packham Ave	602	1997	100	2097	206,011	78	5,238	-
Mains	Packham Ave	33	2009	100	2109	11,435 20,032	90	275	-
Mains Mains	Palmer Sq Park Lane Dr	69 23	1953 1967	100 100	2053 2067	6,663	34 48	818 217	<u>-</u>
Mains	Park Lane Dr	113	1967	100	2067	32,933	52	1,025	-
Mains	Park Lane Dr	7	1971	100	2071	2,023	52	63	-
Mains	Park Lane Dr	175	1973	100	2073	50,933	54	1,551	<u> </u>
Mains	Park St	192	1968	100	2068	56,084	49	1,806	-
Mains	Park St	50		100		17,080	49	550	-
Mains	Park St	7	1993	100		2,258	74	59	-
Mains	Park St	176	1993	100		60,305	74	1,568	- 04.740
Mains Mains	Parkview Dr	85 70	1913	100	2019	24,748 20,368	0	suggested for 10 year capital forecast	24,748
Mains Mains	Parkview Dr Parkview Dr	70 5	1913 1913	100 100		1,449	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	20,368 1,449
Mains	Parkview Dr	10	2008	100	2108	3,022	89	73	- 1,443
Mains	Parkview Dr	152	2010	100		44,428	91	1,064	-
Mains	Patricia Rd	153	1968	100	2068	44,492	49	1,433	-
Mains	Patricia Rd	7	1968	100	2068	2,020	49	65	-



					Waterm	ains			
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Patricia Rd	150	1973	100	2073	43,839	54	1,335	<u>-</u>
Mains	Patricia Rd	63	1973	100	2073	18,345	54	559	-
Mains	Patricia Rd	44	1973	100	2073	12,956	54	395	-
Mains	Patricia Rd	282	1974	100	2074	82,219 16,369	55	2,478	-
Mains Mains	Perth Line 36 Perth St	48 170	2017 1931	100 100	2117 2031	49,552	98 12	382 4,686	-
Mains	Perth St	93		100	2031	27,176	12	2,570	-
Mains	Perth St	86	1931	100	2031	25,075	12	2,371	-
Mains	Perth St	268	1931	100	2031	78,037	12	7,379	-
Mains Mains	Peter St Pine St	87 122	1920 1924	100 100	2020 2024	24,311 35,602	1 5	suggested for 10 year capital forecast suggested for 10 year capital forecast	24,311 35,602
Mains	Pine St	87	1924	100	2024	25,308	5	suggested for 10 year capital forecast	25,308
Mains	Pine St	5		100	2068	1,444	49	47	-
Mains	Pine St	5		100	2068	1,597	49	51	-
Mains	Player St	97	1945	100	2045	28,220 32,230	26	1,403	=
Mains Mains	Player St Pleasant Dr	111 222	1964 1954	100 100	2064 2054	64,766	45 35	1,093 2,591	-
Mains	Pleasant Dr	175		100	2054	50,942	35	2,038	
Mains	Polley PI	58		100	2078	16,780	59	487	-
Mains	Portia Blvd	15		100	2047	4,372	28	205	-
Mains	Portia Blvd	234	1947	100	2047	68,337	28	3,211	-
Mains Mains	Portia Blvd Preston St	12 19	2000 2007	100 100	2100 2107	3,585 5,392	81 88	90	-
Mains	Princess St	217	1924	100	2024	63,335	5	suggested for 10 year capital forecast	63,335
Mains	Princess St	94	1924	100	2024	27,304	5	suggested for 10 year capital forecast	27,304
Mains	Princess St	173	1952	100	2052	50,350	33	2,099	-
Mains	Princess St	136		100	2052	39,627	33	1,652	-
Mains Mains	Queen St Queen St	87 255	1906 1915	100 100	2019 2019	29,836 74,437	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	29,836 74,437
Mains	Queen St	95		100		27,733	0	suggested for 10 year capital forecast	27,733
Mains	Queen St	98		100		28,593	0	suggested for 10 year capital forecast	28,593
Mains	Queen St	230		100	2019	67,159	0	suggested for 10 year capital forecast	67,159
Mains	Queen St	129		100		37,613	5	suggested for 10 year capital forecast	37,613
Mains Mains	Queen St Queen St	90 185		100 100	2024 2026	26,351 54,014	5 7	suggested for 10 year capital forecast suggested for 10 year capital forecast	26,351 54,014
Mains	Queensland Rd	15		100	2077	4,436	58	130	- 34,014
Mains	Queensland Rd	153		100	2077	52,199	58	1,529	-
Mains	Queensland Rd	76		100	2077	26,086	58	764	-
Mains	Queensland Rd	120	1977	100	2077	40,966 20,851	58	1,200	=
Mains Mains	Queensland Rd Queensland Rd	61 84	1977 1977	100 100	2077 2077	28,621	58 58	611 838	<u>-</u>
Mains	Queensland Rd	39		100	2077	13,351	58	391	-
Mains	Queensland Rd	81	1987	100	2087	27,790	68	751	-
Mains	Queensland Rd	37	1987	100	2087	12,697	68	343	-
Mains	Queensland Rd	105 185		100 100	2109	30,668 53,994	90	737	- F2 004
Mains Mains	Railway Ave Railway Ave	185		100	2019 2019	54,067	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	53,994 54,067
Mains	Railway Ave	36		100		10,595	2	suggested for 10 year capital forecast	10,595
Mains	Railway Ave	279	1924	100	2024	81,193	5	suggested for 10 year capital forecast	81,193
Mains	Railway Ave	23	1	100	2024	6,634	5	suggested for 10 year capital forecast	6,634
Mains	Railway Ave	263	1955	100		96,498 81,691	36	3,786	-
Mains Mains	Railway Ave Railway Ave	222 176	1955 1955	100 100	2055 2055	64,841	36 36	3,205 2,544	-
Mains	Railway Ave	33		100	2055	12,131	36	476	-
Mains	Railway Ave	5		100	2055	1,408	36	55	=
Mains	Railway Ave	5		100	2055	1,416	36	56	-
Mains	Railway Ave	32	1955 1964	100 100	2055 2064	11,833 1,411	36 45	464 48	-
Mains Mains	Railway Ave Railway Ave	3	1964	100	2064	1,231	45	42	<u>-</u>
Mains	Railway Ave	314	2007	100	2107	115,262	88	2,794	=
Mains	Railway Ave	9	2007	100	2107	2,696	88	65	-
Mains	Railway Ave	13		100	2107	4,796	88	116	=
Mains	Railway Ave	3 13		100		968 4,664	88	23	<u>-</u>
Mains Mains	Railway Ave Railway Ave	36		100 100	2107 2111	13,201	88 92	113 315	<del>-</del>
Mains	Railway Ave	2	2011	100		911	92	22	=
Mains	Railway Ave	35	2011	100		12,690	92	303	-
Mains	Railway Ave	190		100		69,983	92	1,670	-
Mains	Rankin St	141	1946	100	2046	41,149 994	27	1,987	-
Mains Mains	Rankin St Rebecca St	253		100 100		73,743	84 3	25 suggested for 10 year capital forecast	73,743
Mains	Rebecca St	265		100		77,273	67	2,104	-
Mains	Redford Cres	262		100		76,288	40	2,789	-
Mains	Redford Cres	261	1964	100		76,209	45	2,584	-
Mains Mains	Redford Cres Redford Cres	261 165		100		48,217	45 45	2,584 1,635	



					City of Stra Waterma				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Redford Cres	164	1964	100	2064	47,925	45	1,625	-
Mains	Redford Cres	182	1965	100	2065	53,076	46	1,776	
Mains Mains	Regent St Regent St	89 87	1922 1925	100 100	2022 2025	25,900 25,483	3 6	suggested for 10 year capital forecast	25,900 25,483
Mains	Regent St	189	1925	100	2025	55,174	6	suggested for 10 year capital forecast suggested for 10 year capital forecast	55,174
Mains	Regent St	104	2005	100	2105	30,266	86	740	
Mains	Riehl Ct	78	1968	100	2068	22,629 26,843	49	729	
Mains Mains	Romeo Control Centre Romeo Control Centre	88 25	1931 1964	100 100	2031 2064	8,417	12 45	2,538 285	-
Mains	Romeo Control Centre	16	1964	100	2064	4,550	45	154	-
Mains	Romeo Control Centre	54	1964	100	2064	15,812	45	536	-
Mains Mains	Romeo Control Centre Romeo Control Centre	62 54	1964 1964	100 100	2064 2064	18,120 16,512	45 45	614 560	-
Mains	Romeo Control Centre	275	1968	100	2068	94,157	49	3,032	-
Mains	Romeo Control Centre	20	1968	100	2068	6,703	49	216	-
Mains	Romeo Control Centre	8	1968	100	2068	2,710 41,339	49	87	-
Mains Mains	Romeo Control Centre Romeo Control Centre	121 8	1997 1997	100 100	2097 2097	2,679	78 78	1,051 68	-
Mains	Romeo Control Centre	4	1997	100	2097	1,386	78	35	
Mains	Romeo Control Centre	21	1997	100	2097	7,144	78	182	-
Mains Mains	Romeo Control Centre Romeo St N	20 154	1997 1964	100 100	2097 2064	6,747 52,808	78 45	172 1,791	-
Mains	Romeo St N	246	1904	100	2004	84,156	79	2,128	
Mains	Romeo St N	310	1998	100	2098	106,187	79	2,686	-
Mains	Romeo St N	49	1998	100	2098	16,824	79	425	-
Mains Mains	Romeo St N Romeo St N	161 86	1998 1998	100 100	2098 2098	54,988 29,518	79 79	1,391 747	-
Mains	Romeo St N	70	1998	100	2098	23,923	79	605	-
Mains	Romeo St N	92	1998	100		31,519	79	797	-
Mains	Romeo St N	133	1998	100		45,623 5,341	79	1,154	-
Mains Mains	Romeo St N Romeo St N	16 25	1999 2005	100 100		7,193	80 86	134 176	-
Mains	Romeo St N	23	2005	100		6,616	86	162	
Mains	Romeo St N	9	2006	100	2106	2,725	87	66	-
Mains	Romeo St N	16 14	2006 1964	100 100	2106	4,475 4,046	87 45	109 137	-
Mains Mains	Romeo St N Romeo St S	99	1904	100	2064 2019	33,969	45 0	suggested for 10 year capital forecast	33,969
Mains	Romeo St S	92	1914	100	2019	31,642	0	suggested for 10 year capital forecast	31,642
Mains	Romeo St S	96	1914	100	2019	32,696	0	suggested for 10 year capital forecast	32,696
Mains Mains	Romeo St S Romeo St S	162 82	1914 1954	100 100	2019 2054	55,326 23,862	0 35	suggested for 10 year capital forecast 955	55,326
Mains	Romeo St S	28	1954	100	2054	8,123	35	325	
Mains	Romeo St S	94	1954	100	2054	27,433	35	1,097	-
Mains	Romeo St S	37 34	1957 1964	100 100	2057 2064	10,875 11,643	38 45	411 395	-
Mains Mains	Romeo St S Romeo St S	34	1964	100	2064	12,660	45 45	429	-
Mains	Romeo St S	250	1964	100	2064	85,405	45	2,896	-
Mains	Romeo St S	107	1964	100	2064	39,466	45	1,338	
Mains Mains	Romeo St S Romeo St S	37 20	1968 1968	100 100	2068 2068	12,584 6,901	49 49	405	-
Mains	Romeo St S	12	1968	100		4,205	49	135	-
Mains	Romeo St S	17	1968	100	2068	5,711	49	184	-
Mains Mains	Romeo St S Romeo St S	26	1968 1968	100 100	2068 2068	1,116 8,961	49 49	36 289	-
Mains	Romeo St S	112	1968	100	2068	38,396	49	1,237	-
Mains	Romeo St S	101	1968	100	2068	34,404	49	1,108	-
Mains	Romeo St S	95	1968	100	2068	32,583 97,726	49	1,049	-
Mains Mains	Romeo St S Romeo St S	286 99	1968 1968	100 100	2068 2068	33,842	49 49	3,147 1,090	-
Mains	Romeo St S	123	1975	100	2075	42,078	56	1,256	
Mains	Romeo St S	201	1975	100	2075	68,691	56	2,050	-
Mains Mains	Romeo St S Romeo St S	92 48	1975 1980	100 100	2075 2080	31,636 13,906	56 61	944 397	-
Mains	Romeo St S	133	1980	100	2080	38,701	61	1,104	-
Mains	Romeo St S	191	1993	100		65,297	74	1,698	-
Mains	Romeo St S	353	1993	100		120,633	74	3,137	-
Mains Mains	Romeo St S Romeo St S	206 66	1993 1996	100 100	2093 2096	70,600 22,452	74 77	1,836 574	-
Mains	Romeo St S	17	2003	100	2103	4,815	84	119	
Mains	Ross St	99	1922	100	2022	27,536	3	suggested for 10 year capital forecast	27,536
Mains Mains	Rotary Recreation Complex	7	2007	100		1,964 1,253	88 91	48	
Mains Mains	Russell Dr Rutherford Dr	292	2010 2006	100 100	2110 2106	85,064	87	2,071	-
Mains	Sargint St	349	1976	100		101,639	57	3,005	
Mains	Scott St	54	1965	100	2065	18,439	46	617	-



Mains         Scott St         22         1975         100         2075         6,242         56           Mains         Scott St         146         1976         100         2076         49,941         57           Mains         Scott St         21         1977         100         2077         6,118         58           Mains         Scott St         13         1980         100         2080         3,891         61           Mains         Shakespeare St         225         1924         100         2024         62,636         5         sugg           Mains         Shakespeare St         262         1930         100         2030         73,027         11           Mains         Shakespeare St         250         2013         100         2113         72,986         94           Mains         Shakespeare St         226         2013         100         2113         65,871         94           Mains         Sharman St         197         1987         100         2087         57,541         68           Mains         Short St         9         2015         100         2115         37,337         96           Main	186 1,476 179 111 gested for 10 year capital forecast 7,462 1,728 1,560 1,555 60 878 gested for 10 year capital forecast 1,304 546 100	Amount to be included in 10 year Forecast  62,636
Mains         Scott St         146         1976         100         2076         49,941         57           Mains         Scott St         21         1977         100         2077         6,118         58           Mains         Scott St         13         1980         100         2080         3,891         61           Mains         Shakespeare St         225         1924         100         2024         62,636         5         sugg           Mains         Shakespeare St         262         1930         100         2030         73,027         11           Mains         Shakespeare St         250         2013         100         2113         72,986         94           Mains         Shakespeare St         226         2013         100         2113         65,871         94           Mains         Sharman St         197         1987         100         2087         57,541         68           Mains         Short St         9         2015         100         2115         2,556         96           Mains         Short St         128         2015         100         2115         37,337         96           Mai	1,476 179 111 gested for 10 year capital forecast 7,462 1,728 1,560 1,555 60 878 gested for 10 year capital forecast 1,304 546	- 62,636 - - - - -
Mains         Scott St         21         1977         100         2077         6,118         58           Mains         Scott St         13         1980         100         2080         3,891         61           Mains         Shakespeare St         225         1924         100         2024         62,636         5         sugg           Mains         Shakespeare St         262         1930         100         2030         73,027         11           Mains         Shakespeare St         250         2013         100         2113         72,986         94           Mains         Shakespeare St         226         2013         100         2113         65,871         94           Mains         Sharman St         197         1987         100         2087         57,541         68           Mains         Short St         9         2015         100         2115         2,556         96           Mains         Short St         128         2015         100         2115         37,337         96           Mains         Shrewsbury St         110         1919         100         2019         32,111         0         sugs <td>179 111 gested for 10 year capital forecast 7,462 1,728 1,560 1,555 60 878 gested for 10 year capital forecast 1,304 546 100</td> <td>- 62,636 - - - - -</td>	179 111 gested for 10 year capital forecast 7,462 1,728 1,560 1,555 60 878 gested for 10 year capital forecast 1,304 546 100	- 62,636 - - - - -
Mains         Scott St         13         1980         100         2080         3,891         61           Mains         Shakespeare St         225         1924         100         2024         62,636         5         sugg           Mains         Shakespeare St         262         1930         100         2030         73,027         11           Mains         Shakespeare St         250         2013         100         2113         72,986         94           Mains         Shakespeare St         226         2013         100         2113         65,871         94           Mains         Sharman St         197         1987         100         2087         57,541         68           Mains         Short St         9         2015         100         2115         2,556         96           Mains         Short St         128         2015         100         2115         37,337         96           Mains         Shrewsbury St         110         1919         100         2019         32,111         0         sugg	111 gested for 10 year capital forecast 7,462 1,728 1,560 1,555 60 878 gested for 10 year capital forecast 1,304 546 100	- 62,636 - - - - -
Mains         Shakespeare St         225         1924         100         2024         62,636         5         suggestion           Mains         Shakespeare St         262         1930         100         2030         73,027         11           Mains         Shakespeare St         250         2013         100         2113         72,986         94           Mains         Shakespeare St         226         2013         100         2113         65,871         94           Mains         Sharman St         197         1987         100         2087         57,541         68           Mains         Short St         9         2015         100         2115         2,556         96           Mains         Short St         128         2015         100         2115         37,337         96           Mains         Shrewsbury St         110         1919         100         2019         32,111         0         suggestion	gested for 10 year capital forecast 7,462 1,728 1,560 1,555 60 878 gested for 10 year capital forecast 1,304 546 100	- - - - -
Mains         Shakespeare St         262         1930         100         2030         73,027         11           Mains         Shakespeare St         250         2013         100         2113         72,986         94           Mains         Shakespeare St         226         2013         100         2113         65,871         94           Mains         Sharman St         197         1987         100         2087         57,541         68           Mains         Short St         9         2015         100         2115         2,556         96           Mains         Short St         128         2015         100         2115         37,337         96           Mains         Shrewsbury St         110         1919         100         2019         32,111         0         suggestion	7,462 1,728 1,560 1,555 60 878 gested for 10 year capital forecast 1,304 546	- - - - -
Mains         Shakespeare St         250         2013         100         2113         72,986         94           Mains         Shakespeare St         226         2013         100         2113         65,871         94           Mains         Sharman St         197         1987         100         2087         57,541         68           Mains         Short St         9         2015         100         2115         2,556         96           Mains         Short St         128         2015         100         2115         37,337         96           Mains         Shrewsbury St         110         1919         100         2019         32,111         0         sugs	1,728 1,560 1,555 60 878 gested for 10 year capital forecast 1,304 546	- - - -
Mains         Shakespeare St         226         2013         100         2113         65,871         94           Mains         Sharman St         197         1987         100         2087         57,541         68           Mains         Short St         9         2015         100         2115         2,556         96           Mains         Short St         128         2015         100         2115         37,337         96           Mains         Shrewsbury St         110         1919         100         2019         32,111         0         sugg	1,560 1,555 60 878 gested for 10 year capital forecast 1,304 546	- - -
Mains         Short St         9         2015         100         2115         2,556         96           Mains         Short St         128         2015         100         2115         37,337         96           Mains         Shrewsbury St         110         1919         100         2019         32,111         0         sugg	60 878 gested for 10 year capital forecast 1,304 546 100	-
Mains         Short St         128         2015         100         2115         37,337         96           Mains         Shrewsbury St         110         1919         100         2019         32,111         0         suggestion	878 gested for 10 year capital forecast 1,304 546 100	-
Mains         Shrewsbury St         110         1919         100         2019         32,111         0         suggestion	gested for 10 year capital forecast 1,304 546 100	32,111 - -
	1,304 546 100	32,111
18 to 18 to	546 100	<u> </u>
Mains         Shrewsbury St         54         1933         100         2033         15,783         14           Mains         Shrewsbury St         69         1987         100         2087         20,204         68	100	
Mains Shrewsbury St 13 1997 100 2097 3,914 78		-
Mains Silcox PI 54 1987 100 2087 15,695 68	424	-
Mains Simcoe St 123 1922 100 2022 35,815 3 sugg	gested for 10 year capital forecast	35,815
	gested for 10 year capital forecast	71,097
Mains         Simpson Ct         110         1967         100         2067         32,204         48	1,050	-
Mains Sir Adam Beck Rd 422 2004 100 2104 144,235 85	3,543	=
Mains         Sir Adam Beck Rd         132         2004         100         2104         45,301         85           Mains         Sir Adam Beck Rd         21         2004         100         2104         6,083         85	1,113	-
Mains         Sir Adam Beck Rd         21         2004         100         2104         6,083         85           Mains         Sir Adam Beck Rd         111         2004         100         2104         32,297         85	149 793	<u>-</u>
Mains Sir Adam Beck Rd 111 2004 100 2104 32,256 85	792	<u> </u>
Mains Sir Adam Beck Rd 100 2004 100 2104 29,190 85	717	-
Mains         Sir Adam Beck Rd         130         2004         100         2104         37,756         85	927	-
Mains         Somerset St         126         1946         100         2046         36,832         27	1,779	=
Mains         Somerset St         112         1953         100         2053         32,670         34	1,334	-
Mains Somerset St 56 1953 100 2053 16,252 34	663	-
Mains         Sprung Ct         87         1987         100         2087         25,381         68           Mains         Sprung Ct         82         1987         100         2087         23,757         68	686	-
Mains         Sprung Ct         82         1987         100         2087         23,757         68           Mains         St. Andrew St         82         1931         100         2031         23,979         12	2,267	<u>-</u>
Mains St. Andrew St 104 1931 100 2031 30,423 12	2,877	<u> </u>
Mains St. Andrew St 41 1931 100 2031 11,976 12	1,132	-
Mains         St. Andrew St         10         2015         100         2115         3,049         96	72	-
Mains         St. Andrew St         12         2015         100         2115         3,436         96	81	-
Mains St. Andrew St 148 2015 100 2115 43,023 96	1,012	-
	gested for 10 year capital forecast	30,441
Mains         St. David St         85         1931         100         2031         24,879         12           Mains         St. David St         84         1979         100         2079         24,500         60	2,353 705	<del>-</del>
Mains St. David St 98 1979 100 2079 28,645 60	824	=
Mains St. David St 59 1979 100 2079 17,240 60	496	-
Mains         St. David St         45         1979         100         2079         13,110         60	377	-
Mains         St. David St         34         1979         100         2079         9,986         60	287	=
Mains St. David St 43 1979 100 2079 12,620 60	363	-
Mains         St. David St         37         1979         100         2079         10,665         60           Mains         St. David St         80         1979         100         2079         23,177         60	307	-
Mains         St. David St         80         1979         100         2079         23,177         60           Mains         St. David St         91         1979         100         2079         26,625         60	667 766	-
Mains St. David St 84 1979 100 2079 24,570 60	707	
Mains St. David St 231 1987 100 2087 67,471 68	1,824	-
Mains St. David St 15 1997 100 2097 4,302 78	109	-
Mains         St. David St         29         1997         100         2097         8,493         78	216	-
Mains St. David St 38 2008 100 2108 10,956 89	265	-
Mains St. Patrick St 73 1939 100 2039 21,411 20	1,309	-
Mains         St. Patrick St         37         1939         100         2039         10,714         20           Mains         St. Patrick St         84         1939         100         2039         28,796         20	655 1,761	-
Mains St. Patrick St 34 1939 100 2039 25,735 20 Mains St. Patrick St 34 1939 100 2039 11,469 20	701	<u>-</u>
Mains St. Patrick St 73 1939 100 2039 25,052 20	1,532	=
Mains St. Patrick St 53 1939 100 2039 18,001 20	1,101	-
Mains St. Patrick St 7 1939 100 2039 2,157 20	132	=
Mains         St. Patrick St         77         2005         100         2105         26,510         86	648	-
Mains St. Patrick St 25 2005 100 2105 8,479 86	207	-
Mains         St. Patrick St         24         2006         100         2106         6,899         87           Mains         St. Patrick St         73         2006         100         2106         24,847         87	168	-
Mains         St. Patrick St         73         2006         100         2106         24,847         87           Mains         St. Patrick St         31         2006         100         2106         10,658         87	605 259	-
Mains St. Patrick St 85 2010 100 2110 29,035 91	259	-
Mains St. Patrick St 39 2010 100 2110 13,303 91	319	<u> </u>
Mains St. Patrick St 17 2010 100 2110 5,851 91	140	-
Mains St. Patrick St 10 2011 100 2111 3,363 92	80	-
Mains St. Patrick St 11 1939 100 2039 3,110 20	190	-
Mains St. Vincent St N 75 1992 100 2092 21,933 73	574	-
Mains         St. Vincent St N         96         1992         100         2092         27,981         73           Mains         St. Vincent St N         101         1992         100         2092         34,605         73	732	-
Mains         St. Vincent St N         101         1992         100         2092         34,605         73           Mains         St. Vincent St N         90         1992         100         2092         30,760         73	905 805	<u>-</u>
Mains St. Vincent St N 49 1992 100 2092 16,913 73	443	<u> </u>



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	St. Vincent St N	9	1992	100	2092	2,527	73	66	-
Mains	St. Vincent St N	15	2009	100	2109	4,229	90	102	-
Mains	St. Vincent St S	130	1918	100	2019	38,019	0	suggested for 10 year capital forecast	38,019
Mains	St. Vincent St S	108	1918	100	2019	31,385	0	suggested for 10 year capital forecast	31,385
Mains	St. Vincent St S	100	1953	100	2053	29,164	34	1,190	-
Mains	St. Vincent St S	91	1954	100	2054	26,558	35	1,062	-
Mains Mains	St. Vincent St S St. Vincent St S	90	1959 1959	100 100	2059	26,232 7,986	40 40	959 292	=
Mains	St. Vincent St S	114	1965	100	2059	33,157	46	1,109	-
Mains	St. Vincent St S	50	1965	100	2065	14,518	46	486	-
Mains	St. Vincent St S	72	1965	100	2065	21,117	46	706	-
Mains	St. Vincent St S	8	1965	100	2065	2,212	46	74	-
Mains	St. Vincent St S	96	1968	100	2068	28,027	49	903	-
Mains	St. Vincent St S	65	1968	100	2068	18,922	49	609	=
Mains	St. Vincent St S	31 62	1968 1968	100	2068	8,928 17,986	49	288 579	-
Mains Mains	St. Vincent St S St. Vincent St S	93	1968	100 100	2068	26,981	49 49	869	-
Mains	St. Vincent St S	141	1968	100	2068	41,000	49	1,320	-
Mains	St. Vincent St S	64	1996	100	2096	21,894	77	560	-
Mains	St. Vincent St S	63	1996	100	2096	21,484	77	549	-
Mains	St. Vincent St S	75	1996	100	2096	25,798	77	660	-
Mains	St. Vincent St S	90	1996	100	2096	30,777	77	787	-
Mains	St. Vincent St S	124	1997	100	2097	42,307	78	1,076	-
Mains	St. Vincent St S	122	1997	100	2097	41,801 107,460	78	1,063	-
Mains Mains	Strachan St Strachan St	369 12	1931 1931	100 100	2031	3,533	12 12	10,161 334	-
Mains	Strachan St	19	1931	100	2031	5,512	12	521	_
Mains	Strachan St	213	1955	100	2055	61,994	36	2,432	-
Mains	Strachan St	40	1955	100	2055	11,784	36	462	-
Mains	Strachan St	7	2009	100	2109	2,099	90	50	=
Mains	Strachan St	14	2009	100	2109	4,177	90	100	-
Mains	Strachan St	6	2009	100	2109	1,690	90	41	-
Mains	Strachan St	24	2009	100	2109	7,109 108,544	90	171	-
Mains Mains	Strachan St Stratford St	372 96	2014 1914	100 100	2114 2019	26,678	95 0	2,561 suggested for 10 year capital forecast	26,678
Mains	Stratford St	122	1915	100	2019	35,582	0	suggested for 10 year capital forecast	35,582
Mains	Stratford St	12	1979	100	2079	3,489	60	100	-
Mains	Stratford St	15	1994	100	2094	4,305	75	111	=
Mains	Sutter St	210	1988	100	2088	61,170	69	1,642	-
Mains	Taylor St	92	1921	100	2021	26,695	2	suggested for 10 year capital forecast	26,695
Mains	Taylor St	94	1921	100	2021	27,374	2	suggested for 10 year capital forecast	27,374
Mains Mains	Taylor St Taylor St	98	1922 1931	100 100	2022	28,563 11,046	3 12	suggested for 10 year capital forecast	28,563
Mains Mains	Taylor St	15	1931	100	2031	4,454	12	1,045 421	-
Mains	Taylor St	89	1964	100	2064	25,975	45	881	_
Mains	Thomas St	26	2010	100	2110	7,479	91	179	-
Mains	Thomas St	180	2010	100	2110	52,589	91	1,260	-
Mains	Trinity St	229	2005	100	2105	66,850	86	1,635	-
Mains	Trinity St	257	2005	100	2105	74,909	86	1,832	-
Mains	Trow Ave	90	1907	100	2019	25,049	0	suggested for 10 year capital forecast	25,049
Mains	Trow Ave	88	1907	100	2019	24,489 38,561	0	suggested for 10 year capital forecast	24,489
Mains Mains	Tweedsmuir PI Vanevery Way	132 448	1968 2004	100 100	2068 2104	130,658	49 85	1,242 3,209	
Mains	Victoria St	108	1913	100	2019	30,015	0	suggested for 10 year capital forecast	30,015
Mains	Victoria St	134	1989	100	2089	37,400	70	997	-
Mains	Victoria St	74	1989	100	2089	21,498	70	573	-
Mains	Viola Ct	91	1958	100	2058	26,410	39	982	=
Mains	Vivian Line 37	361	1999	100	2099	123,483	80	3,107	-
Mains	Vivian Line 37	36	2006	100	2106	12,304	87	300	-
Mains	Vivian Line 37	258	2006	100	2106	88,105	87	2,145	-
Mains Mains	Vivian Line 37 Waddell St	126	2006 1952	100	2106	43,231 39,371	87 33	1,053	-
Mains Mains	Waddell St	135 111	1952	100 100	2052 2052	32,358	33	1,641 1,349	-
Mains	Waddell St	27	1952	100	2052	7,569	33	316	-
Mains	Waddell St	185	1987	100	2087	53,906	68	1,457	=
Mains	Walnut St	98	1930	100	2030	28,561	11	2,918	-
Mains	Walnut St	7	1930	100	2030	2,023	11	207	-
Mains	Walnut St	92	1964	100	2064	33,880	45	1,149	-
Mains	Walnut St	110	1964	100	2064	40,531	45	1,374	-
Mains	Walnut St	7	1964	100	2064	2,462 904	45	83	
Mains Mains	Walnut St	2	2011	100	2111	3,760	92 96	22 88	-
Mains	Walnut St	13	2015	100	2115				
Maine	Walsh Cres	305	1996	100	2006	115.111	//	.) (1)-2	_
Mains Mains	Walsh Cres Walsh Cres	395 38	1996 1996	100 100	2096 2096	115,111 11,070	77 77	2,943 283	



					City of Str. Waterm				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Warwick Rd	185	1953	100	2053	53,970	34	2,203	-
Mains	Water St	150	1924	100	2024	43,804	5	suggested for 10 year capital forecast	43,804
Mains	Water St	16	1924	100	2024	4,649	5	suggested for 10 year capital forecast	4,649
Mains	Water St	125	1924	100	2024	36,322	5	suggested for 10 year capital forecast	36,322
Mains	Water St	11	1924	100	2024	3,157	5	suggested for 10 year capital forecast	3,157
Mains	Water St Water St	154 17	1924 1964	100 100	2024 2064	42,995 4,776	5 45	suggested for 10 year capital forecast	42,995
Mains Mains	Water St	88		100	2004	25,704	45 57	162 760	-
Mains	Water St	10		100	2076	2,883	57	85	-
Mains	Water St	151	1977	100	2077	44,110	58	1,292	-
Mains	Water St	114	1977	100	2077	33,163	58	971	-
Mains	Water St	248		100	2084	72,283	65	1,997	-
Mains	Water St	6		100	2110	1,621	91	39	-
Mains	Water St	8		100	2110	2,198	91	53	-
Mains	Waterloo St N	88		100	2070	25,684 19,738	51	808	-
Mains Mains	Waterloo St N Waterloo St N	68 112	1970 1970	100 100	2070 2070	32,615	51 51	621 1,026	-
Mains	Waterloo St N	164	2004	100	2104	47,730	85	1,172	-
Mains	Waterloo St S	12	1931	100	2031	3,410	12	322	-
Mains	Waterloo St S	88		100	2031	25,547	12	2,416	-
Mains	Waterloo St S	87	1931	100	2031	25,439	12	2,406	-
Mains	Waterloo St S	14	1931	100	2031	3,964	12	375	-
Mains	Waterloo St S	107	1931	100	2031	31,044	12	2,936	-
Mains	Waterloo St S	86	1931	100	2031	25,043 5,710	12	2,368	-
Mains Mains	Waterloo St S Waterloo St S	20 59		100 100	2084 2096	17,112	65 77	158 437	=
Mains	Waterloo St S	21	1996	100	2096	6,246	77	160	-
Mains	Waterloo St S	79		100	2096	22,973	77	587	-
Mains	Waterloo St S	92	1996	100	2096	26,686	77	682	-
Mains	Waterloo St S	94	1996	100	2096	27,535	77	704	-
Mains	Watermain -350100040	19	1989	100	2089	6,621	70	177	-
Mains	Watermain -350100046	170		100	2091	58,132	72	1,530	-
Mains	Watermain -350100069	340		100	2047	99,007	28	4,652	=
Mains	Watermain -350100080	65	1946	100	2046	18,931 19,111	27	914	-
Mains Mains	Watermain -350100082 Watermain -350100119	66 106	1946 1940	100 100	2046 2040	30,863	27 21	923 1,814	-
Mains	Watermain -350100113	135	1959	100	2059	39,423	40	1,441	-
Mains	Watermain -350100144	99		100	2059	28,776	40	1,052	-
Mains	Watermain -350100173	19		100	2058	5,485	39	204	=
Mains	Watermain -350100220	63	1964	100	2064	17,539	45	595	-
Mains	Watermain -350100221	15		100	2064	4,098	45	139	-
Mains	Watermain -350100251	31	1991	100	2091	8,570	72	226	-
Mains	Watermain -350100257	142	2006	100	2106	41,414 26,340	87	1,008	-
Mains	Watermain -350100260	90		100 100	2026 2026	33,227	7	suggested for 10 year capital forecast	26,340
Mains Mains	Watermain -350100261 Watermain -350100262	10		100	2026	2,775	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	33,227 2,775
Mains	Watermain -350100310	2		100	2031	480	12	45	-
Mains	Watermain -350100364	9		100	2087	2,623	68	71	-
Mains	Watermain -350100365	6	1987	100	2087	1,830	68	49	-
Mains	Watermain -350100416	11	1976	100	2076	3,106	57	92	-
Mains	Watermain -350100425	589		100	2093	179,231	74	4,661	-
Mains	Watermain -350100426	36		100	2093	10,595	74	276	-
Mains	Watermain -350100427	36		100	2093	10,630 6,631	74	276	-
Mains Mains	Watermain -350100428 Watermain -350100435	23 71	1993 2005	100 100	2093 2105	21,490	74 86	172 526	-
Mains	Watermain -350100435 Watermain -350100451	81	1960	100	2060	23,585	41	520 848	-
Mains	Watermain -350100476	144	1976	100	2076	42,052	57	1,243	-
Mains	Watermain -350100482	113	1965	100	2065	32,801	46	1,097	-
Mains	Watermain -350100483	27	1957	100	2057	7,522	38	284	-
Mains	Watermain -350100528	38	1999	100	2099	11,073	80	279	-
Mains	Watermain -350100543	48		100	2069	14,459	50	460	-
Mains	Watermain -350100548	50		100	2061	14,690	42	520	-
Mains	Watermain -350100549	179		100	2061	52,085 16.142	42	1,845	-
Mains Mains	Watermain -350100554 Watermain -350100555	58 52	1990 1990	100 100	2090 2090	16,142 14,609	71 71	428 387	-
Mains	Watermain -350100555	49		100		13,544	71	359	-
Mains	Watermain -350100557	49		100		12,705	71	337	-
Mains	Watermain -350100558	34		100		9,565	71	253	-
Mains	Watermain -350100576	8		100	2098	2,221	79	56	
Mains	Watermain -350100577	9		100		2,524	79	64	-
Mains	Watermain -350100582	59		100		17,234	3	suggested for 10 year capital forecast	17,234
Mains	Watermain -350100590	18		100		5,389	45	183	-
Mains	Watermain -350100591	19		100		5,480	45	186	-
Mains	Watermain -350100592	3		100		743	45 45	25	-
Mains	Watermain -350100593	15	1964	100	2064	4,369	45	148	-



Maine   Valuermain   2001 10010   22   1902   100   2002   0.013   7.3				
Marie	nnua		Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Marie		73	17	3 -
Maries   M			29	
Marie   Wilson   ASSENDAN   2		1	16	
Marie			16	
Marie		1	35 19	
Marie			18	
Marie		37	23	-
Marien   Waterman -Scottosters   122   2008   100   2106   377,640   87   188   18			62	
Marie		1	62	İ
Marie		ĺ	<u>91</u> 58	
Mainra         Watermain -350100057         86         1909         100         2009         24,944         50           Marina         Watermain -350100758         86         1994         100         2004         25,056         75           Marina         Watermain -350100758         86         1994         100         2004         25,000         75           Mains         Watermain -350100753         119         1808         100         2008         46,713         6         9           Mains         Watermain -350100755         40         1931         100         2008         15,759         6         9         902           Marina         Watermain -350100756         62         1905         100         2019         214,807         0         3         suggested for 10 year cap           Marina         Watermain -350100050         60         1992         100         2092         18,178         73           Marina         Watermain -350100050         90         1992         100         2092         78,056         73           Marina         Watermain -350100053         90         1992         100         2090         17,607         71           Marina			80	
Maries   Waterman 3501002716   68   1994   190   2004   23.908   75		1	79	+
Mains   Waterman 350100723		75	66	-
Mains   Waterman - 350100724			62	
Mains   Watermain -350100751			1,25	
Mains	ggeste	1	suggested for 10 year capital forecas  4	33,207
Mains   Watermain -350100816   1906   1906   2019   214,407   0   suggested for 10 year cay			1,04	
Mains   Watermain -350100802   106   1992   100   2002   30,822   73	ggeste	1	suggested for 10 year capital forecas	İ
Mains   Watermain -360100804   44   9392   100   2002   12.275   73		73	80	
Mains         Watermain -360108088         90         1982         100         2082         26,396         73           Mains         Watermain -360100828         16         1991         100         2081         4,858         72           Mains         Watermain -360100836         10         1990         100         2000         30,483         71           Mains         Watermain -360100837         11         1991         100         2000         30,483         71           Mains         Watermain -360100872         49         1983         100         2063         20,889         34           Mains         Watermain -360100872         49         1983         100         2063         13,717         34           Mains         Watermain -360100872         49         1983         100         2033         116,919         12           Mains         Watermain -360100872         49         1984         100         2084         18,072         45           Mains         Watermain -360100871         162         1984         100         2084         18,0872         45           Mains         Watermain -360100826         51         1930         100         2030		73	50	-
Nation			32	
Mains   Watermain -350100835   60   1990   100   2090   17,607   71		•	69 12	
Mains   Watermain -350100836   1065   1990   100   2090   30,493   71		1	46	
Mains   Watermain -350100837   11   1991   100   2091   3.314   72		1	80	
Mains         Watermain :350100872         49         1953         100         2053         13,7775         34           Mains         Watermain :360100873         58         1931         100         2031         16,191         12           Mains         Watermain :360100891         62         1964         100         2064         18,872         45           Mains         Watermain :350100911         142         1993         100         2030         14,274         11           Mains         Watermain :350100925         51         1930         100         2030         29,486         11           Mains         Watermain :350100927         99         1924         100         2024         28,709         5         suggested for 10 year cay           Mains         Watermain :350100947         234         1999         100         2096         68,302         77           Mains         Watermain :350100948         33         1987         100         2097         5,788         78           Mains         Watermain :350100980         70         1955         100         2097         5,788         78           Mains         Watermain :3501009891         294         1955			8	
Mains         Watermain -350100873         58         1931         100         2031         16,919         12           Mains         Watermain -350100891         62         1964         100         2064         18,872         45           Mains         Watermain -350100911         142         1993         100         2030         48,868         74           Mains         Watermain -350100925         51         1930         100         2030         14,274         11           Mains         Watermain -350100927         99         1924         100         2024         28,709         5         suggested for 10 year car           Mains         Watermain -350100945         333         1938         100         2038         97,720         68           Mains         Watermain -350100948         33         1987         100         2087         9,720         68           Mains         Watermain -350100989         70         1955         100         2065         20,437         36           Mains         Watermain -350100990         151         1922         100         2065         20,437         36           Mains         Watermain -350100999         161         1986		34	85	-
Mains         Watermain -350100891         62         1964         100         2064         18,872         45           Mains         Watermain -350100811         142         1993         100         2030         14,274         11           Mains         Watermain -350100825         51         1930         100         2030         14,274         11           Mains         Watermain -350100927         99         1924         100         2024         28,709         5         suggested for 10 year cay           Mains         Watermain -350100945         333         1938         100         2038         97,125         19           Mains         Watermain -350100945         333         1938         100         2038         97,125         19           Mains         Watermain -350100945         33         1987         100         2087         9,720         68           Mains         Watermain -350100980         20         1997         100         2097         5,786         78           Mains         Watermain -350100980         151         1922         100         2022         44,113         3         suggested for 10 year cay           Mains         Watermain -350100999			56	†
Mains         Watermain - 350100911         142         1993         100         2093         48,685         74           Mains         Watermain - 350100926         51         1930         100         2030         14,274         11           Mains         Watermain - 350100927         99         1924         100         2024         28,709         5         suggested for 10 year cay           Mains         Watermain - 350100947         234         1996         100         2096         68,302         77           Mains         Watermain - 350100947         234         1996         100         2096         68,302         77           Mains         Watermain - 350100948         33         1987         100         2087         9,720         68           Mains         Watermain - 350100980         20         1997         100         2087         9,720         68           Mains         Watermain - 350100980         20         1997         100         2097         5,788         78           Mains         Watermain - 350100999         151         1922         100         2022         44,113         3         suggested for 10 year cay           Mains         Watermain - 350100999 <td></td> <td></td> <td>1,60</td> <td>İ</td>			1,60	İ
Mains   Watermain -350100925			64 1,26	1
Nains         Watermain -350100926         101         1930         100         2030         29,496         11           Mains         Watermain -350100947         99         1924         100         2024         28,709         5         suggested for 10 year cay           Mains         Watermain -350100947         234         1998         100         2096         68,302         77           Mains         Watermain -350100948         33         1987         100         2087         9,720         68           Mains         Watermain -350100980         20         1997         100         2097         5,788         78           Mains         Watermain -350100980         70         1995         100         2055         20,437         36           Mains         Watermain -350100991         151         1922         100         2055         89,532         36           Mains         Watermain -350100991         1996         100         2065         89,532         36           Mains         Watermain -350100992         10         1968         100         2088         2,920         49           Mains         Watermain -3501000991         61         1960         100			1,45	İ
Mains         Watermain 350100945         333         1938         100         2038         97.125         19           Mains         Watermain 350100947         234         1996         100         2096         68,302         77           Mains         Watermain 350100980         33         1987         100         2087         9,720         68           Mains         Watermain 350100988         70         1955         100         2055         20,437         36           Mains         Watermain 350100989         151         1922         100         2022         44.113         3         suggested for 10 year cay           Mains         Watermain 350100999         151         1922         100         2025         45.113         3         suggested for 10 year cay           Mains         Watermain 350100999         10         1968         100         2066         89.532         36           Mains         Watermain 350100999         61         1960         100         2060         17.862         41           Mains         Watermain 350101003         90         1998         100         2098         27.397         79           Mains         Watermain 350101006         14 </td <td></td> <td></td> <td>3,01</td> <td></td>			3,01	
Mains         Watermain -350100947         234         1996         100         2096         68.302         77           Mains         Watermain -350100948         33         1987         100         2087         9.720         68           Mains         Watermain -350100988         70         1955         100         2095         20.437         36           Mains         Watermain -350100990         151         1922         100         2022         44.113         3         suggested for 10 year car           Mains         Watermain -350100991         1951         1902         2002         24.113         3         suggested for 10 year car           Mains         Watermain -350100992         10         1968         100         2068         2.920         49           Mains         Watermain -350100994         14         1987         100         2087         4.185         68           Mains         Watermain -350100999         61         1960         100         2060         17.852         41           Mains         Watermain -350101003         90         1998         100         2098         27.397         79           Mains         Watermain -350101004         15         <	ggeste	5	suggested for 10 year capital forecas	28,709
Mains         Watermain -350100948         33         1987         100         2087         9,720         68           Mains         Watermain -360100980         20         1997         100         2097         5,788         78           Mains         Watermain -360100980         70         1985         100         2065         20,437         36           Mains         Watermain -350100991         151         1922         100         2022         44,113         3         suggested for 10 year car           Mains         Watermain -350100991         294         1955         100         2065         89,532         36           Mains         Watermain -350100992         10         1988         100         2068         2,920         49           Mains         Watermain -350100994         14         1987         100         2060         17,852         41           Mains         Watermain -35010003         90         1998         100         2060         17,852         41           Mains         Watermain -350101004         15         1960         100         2060         4,132         41           Mains         Watermain -350101066         14         2005			6,19	1
Mains Watermain 350100950 20 1997 100 2097 5,788 78  Mains Watermain 350100980 70 1955 100 2055 20,437 36  Mains Watermain 350100990 151 1922 100 2022 44,113 3 suggested for 10 year cap Mains Watermain 350100991 294 1955 100 2055 89,532 36  Mains Watermain 350100992 10 1968 100 2068 2,920 49  Mains Watermain 350100994 14 1987 100 2087 4,185 68  Mains Watermain 350100994 14 1987 100 2087 4,185 68  Mains Watermain 350100999 161 1960 100 2060 17,852 41  Mains Watermain 350101003 90 1998 100 2089 27,397 79  Mains Watermain 350101004 15 1960 100 2060 4,132 41  Mains Watermain 350101004 15 1960 100 2060 4,132 41  Mains Watermain 350101006 14 2005 100 2105 3,990 86  Mains Watermain 350101017 25 1976 100 2076 6,886 57  Mains Watermain 350101051 42 1967 100 2067 12,344 48  Mains Watermain 350101052 43 1967 100 2067 12,478 48  Mains Watermain 350101058 3 1995 100 2095 962 76  Mains Watermain 350101068 50 1967 100 2067 14,597 48  Mains Watermain 350101068 50 1967 100 2067 14,597 48  Mains Watermain 350101068 50 1967 100 2067 17,158 45  Mains Watermain 350101069 8 1922 100 2022 2,2314 3 suggested for 10 year cap Mains Watermain 350101098 157 1987 100 2067 17,158 45  Mains Watermain 350101098 157 1987 100 2067 19,877 56  Mains Watermain 350101098 157 1987 100 2066 9,950 47  Mains Watermain 350101098 157 1987 100 2066 9,950 47  Mains Watermain 350101099 244 1964 100 2064 71,158 45  Mains Watermain 350101098 157 1987 100 2066 9,950 47  Mains Watermain 350101101 68 1994 100 2094 19,872 75  Mains Watermain 350101144 14 1958 100 2066 9,950 47  Mains Watermain 350101147 38 1954 100 2066 9,950 47  Mains Watermain 350101147 38 1954 100 2089 70,911 70  Mains Watermain 350101509 113 1989 100 2089 5,798 70  Mains Watermain 350101509 113 1989 100 2089 5,798 70  Mains Watermain 350101509 113 1989 100 2089 5,798 70  Mains Watermain 350101509 113 1989 100 2089 5,798 70  Mains Watermain 350101509 114 1989 100 2089 5,799 70  Mains Watermain 350101509 115 1989 100 2089 5,799 70  Mains Watermain 350101509 116 1989 100 2089 5,799 70  Mains Wat			1,74	İ
Mains         Watermain -350100988         70         1955         100         2055         20,437         36           Mains         Watermain -350100990         151         1922         100         2022         44,113         3         suggested for 10 year car           Mains         Watermain -350100991         294         1955         100         2055         89,532         36           Mains         Watermain -350100992         10         1968         100         2068         2,920         49           Mains         Watermain -350100994         14         1987         100         2087         4,185         68           Mains         Watermain -350100999         61         1960         100         2060         17,852         41           Mains         Watermain -350101003         90         1998         100         2098         27,397         79           Mains         Watermain -350101006         14         2005         100         2105         3,990         86           Mains         Watermain -350101051         42         1967         100         2067         12,344         48           Mains         Watermain -350101062         43         1967 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Mains         Watermain -350100990         151         1922         100         2022         44,113         3         suggested for 10 year cay           Mains         Watermain -350100991         294         1956         100         2065         89,532         36           Mains         Watermain -350100992         10         1968         100         2068         2,920         49           Mains         Watermain -350100994         14         1987         100         2087         4,185         68           Mains         Watermain -350100099         61         1960         100         2060         17,852         41           Mains         Watermain -350101003         90         1998         100         2098         27,397         79           Mains         Watermain -350101006         14         2005         100         2105         3,990         86           Mains         Watermain -350101007         25         1976         100         2076         6,886         57           Mains         Watermain -350101051         42         1967         100         2067         12,478         48           Mains         Watermain -350101058         3         1995			80	
Mains         Watermain .350100992         10         1968         100         2068         2.920         49           Mains         Watermain .350100994         14         1987         100         2087         4,185         68           Mains         Watermain .3501000999         61         1960         100         2060         17.852         41           Mains         Watermain .350101003         90         1998         100         2088         27.397         79           Mains         Watermain .350101004         15         1960         100         2060         4,132         41           Mains         Watermain .350101006         14         2005         100         2105         3,990         86           Mains         Watermain .350101051         42         1967         100         2067         12,434         48           Mains         Watermain .350101052         43         1967         100         2067         12,478         48           Mains         Watermain .350101060         19         1965         100         2095         962         76           Mains         Watermain .350101088         50         1967         100         2065         5,	ggeste	1	suggested for 10 year capital forecas	
Mains         Watermain .350100994         14         1987         100         2087         4.185         68           Mains         Watermain .350100999         61         1960         100         2060         17,852         41           Mains         Watermain .350101003         90         1998         100         2098         27,397         79           Mains         Watermain .350101006         15         1960         100         2060         4,132         41           Mains         Watermain .350101006         14         2005         100         2076         6,886         57           Mains         Watermain .350101051         42         1967         100         2067         12,344         48           Mains         Watermain .350101052         43         1967         100         2067         12,344         48           Mains         Watermain .350101068         3         1995         100         2067         12,478         48           Mains         Watermain .350101060         19         1965         100         2065         5,367         46           Mains         Watermain .350101088         50         1967         100         2067         1		36	3,51	-
Mains         Watermain -350100999         61         1960         100         2060         17,852         41           Mains         Watermain -350101003         90         1998         100         2098         27,397         79           Mains         Watermain -350101006         15         1960         100         2060         4,132         41           Mains         Watermain -350101006         14         2005         100         2105         3,990         86           Mains         Watermain -350101051         42         1967         100         2067         12,344         48           Mains         Watermain -350101052         43         1967         100         2067         12,478         48           Mains         Watermain -350101058         3         1995         100         2095         962         76           Mains         Watermain -350101060         19         1965         100         2065         5,367         48           Mains         Watermain -350101068         50         1967         100         2067         14,597         48           Mains         Watermain -350101068         50         1967         100         2026         5,3			9	
Mains         Watermain -350101003         90         1998         100         2098         27,397         79           Mains         Watermain -350101004         15         1960         100         2060         4,132         41           Mains         Watermain -350101006         14         2005         100         2105         3,990         86           Mains         Watermain -350101051         42         1967         100         2076         6,886         57           Mains         Watermain -350101052         43         1967         100         2067         12,344         48           Mains         Watermain -350101052         43         1967         100         2067         12,478         48           Mains         Watermain -350101068         3         1995         100         2095         962         76           Mains         Watermain -350101060         19         1965         100         2065         5,367         46           Mains         Watermain -350101068         50         1965         100         2067         14,597         48           Mains         Watermain -350101099         244         1964         100         20264         71			11	
Mains         Watermain -350101004         15         1960         100         2060         4,132         41           Mains         Watermain -350101006         14         2005         100         2105         3,990         86           Mains         Watermain -350101051         25         1976         100         2076         6,886         57           Mains         Watermain -350101051         42         1967         100         2067         12,478         48           Mains         Watermain -350101052         43         1967         100         2067         12,478         48           Mains         Watermain -350101068         3         1995         100         2065         5,367         46           Mains         Watermain -350101068         50         1967         100         2067         14,597         48           Mains         Watermain -350101069         8         1922         100         2022         2,314         3         suggested for 10 year car           Mains         Watermain -350101097         244         1964         100         2064         71,158         45           Mains         Watermain -3501011001         68         1994         10			64 69	+
Mains         Watermain -350101006         14         2005         100         2105         3,990         86           Mains         Watermain -350101017         25         1976         100         2076         6,886         57           Mains         Watermain -350101051         42         1967         100         2067         12,344         48           Mains         Watermain -350101052         43         1967         100         2067         12,478         48           Mains         Watermain -350101068         3         1995         100         2095         962         76           Mains         Watermain -350101060         19         1965         100         2065         5,367         46           Mains         Watermain -350101068         50         1967         100         2067         14,597         48           Mains         Watermain -350101069         8         1922         100         2022         2,314         3         suggested for 10 year car           Mains         Watermain -350101097         244         1964         100         2064         77,158         45           Mains         Watermain -350101097         157         1987         100<			14	İ
Mains         Watermain -350101051         42         1967         100         2067         12,344         48           Mains         Watermain -350101052         43         1967         100         2067         12,478         48           Mains         Watermain -350101058         3         1995         100         2095         962         76           Mains         Watermain -350101060         19         1965         100         2065         5,367         46           Mains         Watermain -350101068         50         1967         100         2067         14,597         48           Mains         Watermain -350101069         8         1922         100         2022         2,314         3         suggested for 10 year car           Mains         Watermain -350101097         244         1964         100         2064         71,158         45           Mains         Watermain -350101101         68         1994         100         2094         19,872         75           Mains         Watermain -350101181         549         1928         100         2028         160,037         9         suggested for 10 year car           Mains         Watermain -350101246         2			9	
Mains         Watermain -350101052         43         1967         100         2067         12,478         48           Mains         Watermain -350101058         3         1995         100         2095         962         76           Mains         Watermain -350101060         19         1965         100         2065         5,367         46           Mains         Watermain -350101068         50         1967         100         2067         14,597         48           Mains         Watermain -350101069         8         1922         100         2022         2,314         3         suggested for 10 year car           Mains         Watermain -350101097         244         1964         100         2064         71,158         45           Mains         Watermain -350101098         157         1987         100         2087         45,725         68           Mains         Watermain -350101181         549         1928         100         2094         19,872         75           Mains         Watermain -350101244         14         1958         100         2058         4,300         39           Mains         Watermain -350101246         29         1966         10		57	20	-
Mains         Watermain -350101058         3         1995         100         2095         962         76           Mains         Watermain -350101060         19         1965         100         2065         5,367         46           Mains         Watermain -350101068         50         1967         100         2067         14,597         48           Mains         Watermain -350101069         8         1922         100         2022         2,314         3         suggested for 10 year cap           Mains         Watermain -350101097         244         1964         100         2064         71,158         45           Mains         Watermain -350101098         157         1987         100         2087         45,725         68           Mains         Watermain -350101101         68         1994         100         2094         19,872         75           Mains         Watermain -350101181         549         1928         100         2028         160,037         9         suggested for 10 year cap           Mains         Watermain -350101244         14         1958         100         2058         4,300         39           Mains         Watermain -350101253         4			40	
Mains         Watermain -350101060         19         1965         100         2065         5,367         46           Mains         Watermain -350101068         50         1967         100         2067         14,597         48           Mains         Watermain -350101069         8         1922         100         2022         2,314         3         suggested for 10 year car           Mains         Watermain -350101097         244         1964         100         2064         71,158         45           Mains         Watermain -350101098         157         1987         100         2087         45,725         68           Mains         Watermain -350101101         68         1994         100         2094         19,872         75           Mains         Watermain -350101181         549         1928         100         2028         160,037         9         suggested for 10 year car           Mains         Watermain -350101244         14         1958         100         2058         4,300         39           Mains         Watermain -350101246         29         1966         100         2066         9,950         47           Mains         Watermain -350101347 <t< td=""><td></td><td></td><td>40</td><td></td></t<>			40	
Mains         Watermain -350101068         50         1967         100         2067         14,597         48           Mains         Watermain -350101069         8         1922         100         2022         2,314         3         suggested for 10 year car           Mains         Watermain -350101097         244         1964         100         2064         71,158         45           Mains         Watermain -350101098         157         1987         100         2087         45,725         68           Mains         Watermain -350101101         68         1994         100         2094         19,872         75           Mains         Watermain -350101181         549         1928         100         2028         160,037         9         suggested for 10 year car           Mains         Watermain -350101244         14         1958         100         2058         4,300         39           Mains         Watermain -350101246         29         1966         100         2066         9,950         47           Mains         Watermain -350101253         409         2000         100         2100         119,081         81           Mains         Watermain -350101459				
Mains         Watermain -350101069         8         1922         100         2022         2,314         3         suggested for 10 year car           Mains         Watermain -350101097         244         1964         100         2064         71,158         45           Mains         Watermain -350101098         157         1987         100         2087         45,725         68           Mains         Watermain -350101101         68         1994         100         2094         19,872         75           Mains         Watermain -350101181         549         1928         100         2028         160,037         9         suggested for 10 year car           Mains         Watermain -350101244         14         1958         100         2028         160,037         9         suggested for 10 year car           Mains         Watermain -350101244         14         1958         100         2028         4,300         39           Mains         Watermain -350101246         29         1966         100         2066         9,950         47           Mains         Watermain -350101253         409         2000         100         2100         111,011         35           Mains			47	
Mains         Watermain -350101098         157         1987         100         2087         45,725         68           Mains         Watermain -350101101         68         1994         100         2094         19,872         75           Mains         Watermain -350101181         549         1928         100         2028         160,037         9         suggested for 10 year cap           Mains         Watermain -350101244         14         1958         100         2058         4,300         39           Mains         Watermain -350101246         29         1966         100         2066         9,950         47           Mains         Watermain -350101253         409         2000         100         2100         119,081         81           Mains         Watermain -350101347         38         1954         100         2054         11,111         35           Mains         Watermain -350101459         12         1994         100         2094         3,415         75           Mains         Watermain -350101506         207         1989         100         2089         70,911         70           Mains         Watermain -350101937         71         2007	ggeste		suggested for 10 year capital forecas	
Mains         Watermain -350101101         68         1994         100         2094         19,872         75           Mains         Watermain -350101181         549         1928         100         2028         160,037         9         suggested for 10 year cap           Mains         Watermain -350101244         14         1958         100         2058         4,300         39           Mains         Watermain -350101246         29         1966         100         2066         9,950         47           Mains         Watermain -350101253         409         2000         100         2100         119,081         81           Mains         Watermain -350101347         38         1954         100         2054         11,111         35           Mains         Watermain -350101459         12         1994         100         2094         3,415         75           Mains         Watermain -350101506         207         1989         100         2089         70,911         70           Mains         Watermain -350101509         11         1989         100         2089         55,798         70           Mains         Watermain -350101937         71         2007			2,41	
Mains         Watermain -350101181         549         1928         100         2028         160,037         9         suggested for 10 year cap           Mains         Watermain -350101244         14         1958         100         2058         4,300         39           Mains         Watermain -350101246         29         1966         100         2066         9,950         47           Mains         Watermain -350101253         409         2000         100         2100         119,081         81           Mains         Watermain -350101347         38         1954         100         2054         11,111         35           Mains         Watermain -350101459         12         1994         100         2094         3,415         75           Mains         Watermain -350101506         207         1989         100         2089         70,911         70           Mains         Watermain -350101509         163         1989         100         2089         55,798         70           Mains         Watermain -350101509         11         1989         100         2089         3,736         70           Mains         Watermain -350101937         71         2007			1,23	
Mains         Watermain -350101244         14         1958         100         2058         4,300         39           Mains         Watermain -350101246         29         1966         100         2066         9,950         47           Mains         Watermain -350101253         409         2000         100         2100         119,081         81           Mains         Watermain -350101347         38         1954         100         2054         11,111         35           Mains         Watermain -350101459         12         1994         100         2094         3,415         75           Mains         Watermain -350101506         207         1989         100         2089         70,911         70           Mains         Watermain -350101509         163         1989         100         2089         55,798         70           Mains         Watermain -350101509         11         1989         100         2089         3,736         70           Mains         Watermain -350101937         71         2007         100         2107         20,796         88           Mains         Watermain -350102132         19         1991         100         2091			51	
Mains         Watermain -350101246         29         1966         100         2066         9,950         47           Mains         Watermain -350101253         409         2000         100         2100         119,081         81           Mains         Watermain -350101347         38         1954         100         2054         11,111         35           Mains         Watermain -350101459         12         1994         100         2094         3,415         75           Mains         Watermain -350101506         207         1989         100         2089         70,911         70           Mains         Watermain -350101509         163         1989         100         2089         55,798         70           Mains         Watermain -350101509         11         1989         100         2089         3,736         70           Mains         Watermain -350101937         71         2007         100         2107         20,796         88           Mains         Watermain -350102132         19         1991         100         2091         6,504         72	ygeste		suggested for 10 year capital forecas	
Mains         Watermain -350101253         409         2000         100         2100         119,081         81           Mains         Watermain -350101347         38         1954         100         2054         11,111         35           Mains         Watermain -350101459         12         1994         100         2094         3,415         75           Mains         Watermain -350101506         207         1989         100         2089         70,911         70           Mains         Watermain -350101509         163         1989         100         2089         55,798         70           Mains         Watermain -350101509         11         1989         100         2089         3,736         70           Mains         Watermain -350101937         71         2007         100         2107         20,796         88           Mains         Watermain -350101938         125         2007         100         2107         36,410         88           Mains         Watermain -350102132         19         1991         100         2091         6,504         72			32	
Mains         Watermain -350101459         12         1994         100         2094         3,415         75           Mains         Watermain -350101506         207         1989         100         2089         70,911         70           Mains         Watermain -350101509         163         1989         100         2089         55,798         70           Mains         Watermain -350101509         11         1989         100         2089         3,736         70           Mains         Watermain -350101937         71         2007         100         2107         20,796         88           Mains         Watermain -350101938         125         2007         100         2107         36,410         88           Mains         Watermain -350102132         19         1991         100         2091         6,504         72			2,98	=
Mains         Watermain -350101506         207         1989         100         2089         70,911         70           Mains         Watermain -350101509         163         1989         100         2089         55,798         70           Mains         Watermain -350101509         11         1989         100         2089         3,736         70           Mains         Watermain -350101937         71         2007         100         2107         20,796         88           Mains         Watermain -350101938         125         2007         100         2107         36,410         88           Mains         Watermain -350102132         19         1991         100         2091         6,504         72			44	
Mains         Watermain -350101509         163         1989         100         2089         55,798         70           Mains         Watermain -350101509         11         1989         100         2089         3,736         70           Mains         Watermain -350101937         71         2007         100         2107         20,796         88           Mains         Watermain -350101938         125         2007         100         2107         36,410         88           Mains         Watermain -350102132         19         1991         100         2091         6,504         72			8	
Mains         Watermain -350101509         11         1989         100         2089         3,736         70           Mains         Watermain -350101937         71         2007         100         2107         20,796         88           Mains         Watermain -350101938         125         2007         100         2107         36,410         88           Mains         Watermain -350102132         19         1991         100         2091         6,504         72			1,89	
Mains         Watermain -350101937         71         2007         100         2107         20,796         88           Mains         Watermain -350101938         125         2007         100         2107         36,410         88           Mains         Watermain -350102132         19         1991         100         2091         6,504         72				
Mains         Watermain -350101938         125         2007         100         2107         36,410         88           Mains         Watermain -350102132         19         1991         100         2091         6,504         72			50	
Mains Watermain -350102132 19 1991 100 2091 6,504 72			88	
Mains   Well St   255   1920   100   2020   71.215   1   suggested for 10 year car			17	
		1	suggested for 10 year capital forecas	
Mains         Well St         234         1920         100         2020         68,232         1         suggested for 10 year car           Mains         Wellington St         232         1933         100         2033         67,678         14	ggeste		suggested for 10 year capital forecas 5,59	



Watermains									
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Wallington St	111	1964	100	2064	30,809	45	1,045	10100031
Mains Mains	Wellington St Wellington St	48	1964	100	2064	13,871	45 45	470	<u>-</u>
Mains	Wellington St	55	1964	100	2064	16,063	45	545	-
Mains	Wellington St	53	1964	100	2064	14,879	45	505	-
Mains	Wellington St	108	1964	100	2064	31,551 74,009	45	1,070	-
Mains Mains	Wellington St Wellington St	254 12	1985 2006	100 100	2085 2106	3,948	66 87	2,029 96	-
Mains	Wellington St	194	2006	100	2106	66,272	87	1,614	-
Mains	West Gore St	89	1922	100	2022	25,981	3	suggested for 10 year capital forecast	25,981
Mains	West Gore St	98	1922	100	2022	28,543	3	suggested for 10 year capital forecast	28,543
Mains	West Gore St	20	1922	100	2022	5,803 36,637	3	suggested for 10 year capital forecast	5,803
Mains Mains	West Gore St West Gore St	126 84	1924 1931	100 100	2024	24,591	5 12	suggested for 10 year capital forecast 2,325	36,637
Mains	West Gore St	28	1931	100	2031	8,304	12	785	-
Mains	West Gore St	164	1931	100	2031	47,902	12	4,530	-
Mains	West Gore St	24	1931	100	2031	6,791	12	642	-
Mains	West Gore St	117	1931	100	2031	32,482	12	3,071	-
Mains Mains	West Gore St West Gore St	159 203	1931 1931	100 100	2031	46,337 59,112	12 12	4,382 5,590	-
Mains	West Gore St	46	1931	100	2031	13,297	12	1,257	
Mains	West Gore St	248	1931	100	2031	72,365	12	6,843	=
Mains	West Gore St	106	1938	100	2038	30,872	19	1,969	-
Mains	West Gore St	273	1954	100	2054	79,485	35	3,180	-
Mains Mains	West Gore St West Gore St	160 94	1985 1985	100 100	2085 2085	46,669 27,275	66 66	1,280 748	-
Mains	West Gore St	12	1990	100	2090	3,419	71	91	<u>-</u>
Mains	West Gore St	11	1991	100	2091	2,994	72	79	-
Mains	West Gore St	113	2004	100	2104	38,492	85	945	=
Mains	West Gore St	33	2007	100	2107	11,360	88	275	-
Mains Mains	West Gore St West Gore St	16 38	2007 2007	100 100	2107 2107	4,684 13,994	88 88	114 339	-
Mains	West Gore St	82	2007	100	2107	29,977	88	727	<u> </u>
Mains	White St	182	1977	100	2077	52,982	58	1,552	-
Mains	Whitelock St	93	1923	100	2023	27,173	4	suggested for 10 year capital forecast	27,173
Mains	Whitelock St	112	1923	100	2023	32,784	4	suggested for 10 year capital forecast	32,784
Mains Mains	Whitelock St Whitelock St	176 96	1923 1945	100 100	2023 2045	51,333 28,097	4 26	suggested for 10 year capital forecast 1,396	51,333
Mains	Whitelock St	233	1945	100	2045	67,821	57	2,005	<u>-</u>
Mains	Whyte Ave	256	1922	100	2022	74,708	3	suggested for 10 year capital forecast	74,708
Mains	Whyte Ave	1	1922	100	2022	335	3	suggested for 10 year capital forecast	335
Mains	William St	169	1926	100	2026	49,281	7	suggested for 10 year capital forecast	49,281
Mains Mains	William St William St	80 207	1926 1931	100 100	2026	23,422 60,196	7 12	suggested for 10 year capital forecast 5,692	23,422
Mains Mains	William St	124	1931	100	2031	36,220	12	3,425	<u>-</u>
Mains	William St	56	1931	100	2031	16,337	12	1,545	-
Mains	William St	105	1931	100	2031	30,703	12	2,903	-
Mains	William St	124	1956	100	2056	36,069	37	1,389	=
Mains	William St	29	1956 2002	100 100	2056 2102	8,499 1,626	37 83	327 40	-
Mains Mains	William St William St	208	2002	100	2102	60,537	86	1,480	-
Mains	William St	307	2006	100	2106	89,570	87	2,181	-
Mains	William St	83	2006	100	2106	24,069	87	586	-
Mains	William St	298	2006	100	2106	86,824	87	2,114	-
Mains Mains	William St Willow St	151 85	2010 1956	100 100	2110 2056	43,979 24,687	91 37	1,053 951	-
Mains Mains	Willow St	89	1956	100	2056	25,937	37	999	-
Mains	Willow St	85	1956	100	2056	24,649	37	949	<u> </u>
Mains	Willow St	77	1968	100	2068	22,332	49	719	-
Mains	Willow St	68	1968	100	2068	19,898	49	641	-
Mains	Willow St	59	1968	100	2068	17,223 33,752	49	555	=
Mains Mains	Willow St Willow St	116 78	1968 1968	100 100	2068 2068	22,810	49 49	1,087 735	<u>-</u>
Mains	Willow St	396	1968	100	2068	115,347	49	3,715	<u> </u>
Mains	Willow St	132	1977	100	2077	38,363	58	1,124	-
Mains	Wilson Ct	63	1966	100	2066	18,380	47	607	-
Mains	Windemere Cres	239	1966	100	2066	69,733	47	2,302	-
Mains Mains	Windemere Cres Wingfield Ave	341 429	1966 1999	100 100	2066 2099	99,509 125,175	47 80	3,286 3,149	=
Mains	Woods St	80		100	2099	22,418	0	suggested for 10 year capital forecast	22,418
Mains	Woods St	262	1953	100	2053	76,372	34	3,117	-
Mains	Woods St	166	1956	100	2056	48,398	37	1,864	-
Mains	Woods St	84	1956	100	2056	23,502	37	905	=
	Woods St	395	1987	100	2087	115,120	68	3,112	-
Mains Mains	Wooton Ct	134	1976	100	2076	39,196	57	1,159	-



## Watermains

					Waterini				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Worsley St	10	2005	100	2105	2,912	86	71	-
Mains	Wright Blvd	524	1989	100	2089	179,230	70	4,780	-
Mains	Wright Blvd	95	1989	100	2089	32,518	70	867	-
Mains	Wright Blvd	502	1997	100	2097	171,696	78	4,366	-
Mains	Wright Blvd	22	2009	100	2109	6,497	90	156	-
Mains	Wright Blvd	23	2009	100	2109	6,835	90	164	-
Mains	Wright Blvd	24	2009	100	2109	6,908	90	166	-
Mains	Wright Blvd	23	2009	100	2109	6,829	90	164	-
Mains	Wright Blvd	465	2009	100	2109	159,132	90	3,826	-
Mains	Wright Blvd	484	2009	100	2109	165,483	90	3,979	-
Mains	Wright Blvd	140	1997	100	2097	39,131	78	995	-
Mains	Wright Blvd	165	1997	100	2097	50,298	78	1,279	-
Mains	Wyatt St	172	1976	100	2076	49,992	57	1,478	-
Mains	York St	103	1931	100	2031	29,989	12	2,836	-
Mains	York St	7	1992	100	2092	1,918	73	50	-
Mains	York St	105	1992	100	2092	30,647	73	802	-
Mains	Youngs St	343	1920	100	2020	99,829	1	suggested for 10 year capital forecast	99,829
Mains	Youngs St	342	2012	100	2112	99,806	93	2,372	-
Total		189,584				57,674,841		1,779,527	8,656,204



				Hydrants				
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Hydrant	Abbey Ct	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Abraham Dr	2002	50	2052	5,132	33	214	-
Hydrant	Abraham Dr	2002	50		5,132	33	214	-
Hydrant	Abraham Dr	2002	50		5,132 5,132	33	214	-
Hydrant Hydrant	Albert St Albert St	1998 1998	50 50		5,132	29 29	235	-
Hydrant	Albert St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Albert St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Albert St	1926	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Albert St	1926	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Allman Arena	1924	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Athlone Cres	1994	50		5,132 5,132	25	263 263	-
Hydrant Hydrant	Athlone Cres Athlone Cres	1994 1994	50 50		5,132	25 25	263	-
Hydrant	Athlone Cres	1994	50		5,132	25	263	_
Hydrant	Avon St	1925	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Avon St	2005	50	2055	5,132	36	201	-
Hydrant	Avon St	1986	50	2036	5,132	17	359	-
Hydrant	Avondale Ave	1953	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Avondale Ave	1932	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Avondale Ave	1932 1932	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant Hydrant	Avondale Ave Avonwood Dr	1932 1976	50		5,132	7	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Avonwood Dr	1976	50		5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Avonwood Dr	1947	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Avonwood Dr	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Babb Cres	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Baker St	1973	50		5,132	4	suggested for 10 year capital forecast	5,132
Hydrant	Ballantyne Ave	1910	50		5,132	0	suggested for 10 year capital forecast 188	5,132
Hydrant Hydrant	Barnsdale St Barron St	2009 1978	50 50		5,132 5,132	40 9	suggested for 10 year capital forecast	5,132
Hydrant	Battershall Ct	1976	50		5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Bay St	1920	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Bedford Dr	1963	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Bedford Dr	1967	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Bedford Dr	1973	50		5,132	4	suggested for 10 year capital forecast	5,132
Hydrant	Bedford Dr	1967	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Bedford Dr	1973 1973	50 50		5,132 5,132	4	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Bedford Dr Bell Ct	1973	50		5,132	24	271	5,132
Hydrant	Bell Ct	1993	50		5,132	24	271	-
Hydrant	Bell Ct	2000	50		5,132	31	224	-
Hydrant	Birmingham St	2005	50	2055	5,132	36	201	-
Hydrant	Birmingham St	1922	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Birmingham St	2012	50		5,132	43	179	-
Hydrant	Birmingham St	1921 1921	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Birmingham St Birmingham St	1968	50		5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Blake St	1965	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Blake St	1965	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Blake St	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Borden St	1964	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Borden St	1964	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Borden St	1964	50		5,132	0	suggested for 10 year capital forecast 263	5,132
Hydrant Hydrant	Borden St Borden St	1994 2014	50 50		5,132 5,132	25 45	174	-
Hydrant	Borden St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Braemar Cres	1974	50		5,132	5	suggested for 10 year capital forecast	5,132
Hydrant	Braemar Cres	1974	50		5,132	5	suggested for 10 year capital forecast	5,132
Hydrant	Braemar Cres	1974	50	2024	5,132	5	suggested for 10 year capital forecast	5,132
Hydrant	Braemar Cres	1974	50		5,132	5	suggested for 10 year capital forecast	5,132
Hydrant	Braemar Cres	1974	50		5,132	5	suggested for 10 year capital forecast	5,132
Hydrant	Briarhill Dr	1991	50 50		5,132 5,132	22	291 291	-
Hydrant Hydrant	Briarhill Dr Britannia St	1991 2003	50 50		5,132	22 34	291	-
Hydrant	Britannia St	2003	50		5,132	34	209	-
Hydrant	Britannia St	1997	50		5,132	28	241	-
Hydrant	Britannia St	2003	50		5,132	34	209	-
Hydrant	Britannia St	1965	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Brown St	2010	50		5,132	41	185	-
Hydrant	Brown St	2010	50		5,132	41	185	-
Hydrant	Brown St	2010	50 50		5,132 5,132	41	185 suggested for 10 year capital forecast	- E 400
Hydrant Hydrant	Bruce St Brunswick St	1964 1931	50 50		5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Brunswick St	1989	50		5,132	20	314	
Hydrant	Brunswick St	1995	50		5,132	26	255	-
Hydrant	Brunswick St	1994	50		5,132	25	263	-
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				Hydrants				
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Hydrant	Brunswick St	1924	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Brunswick St	1924	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Brunswick St	1997	50	2047	5,132	28	241	-
Hydrant	Brunswick St	1924	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Brunswick St	1924	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Brydges St	1945	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Brydges St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Brydges St	2009	50	2059	5,132	40	188	-
Hydrant	Brydges St	2009	50		5,132	40	188	-
Hydrant	Brydges St	2009	50		5,132	40	188	-
Hydrant	Brydges St	1965	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Brydges St	2009	50		5,132 5,132	40	188 188	-
Hydrant	Brydges St	2009	50		5,132	40	suggested for 10 year capital forecast	- F 133
Hydrant	Buckingham Dr	1971	50		5,132	5	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Buckingham Dr	1974 1992	50 50		5,132	23	281	5,132
Hydrant	Burnham Ct Burritt St	2003	50		5,132	34	209	-
Hydrant Hydrant	Burritt St	1963	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Burritt St	1963	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Burritt St	1963	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Burritt St	1966	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	C.H. Meier Blvd	1924	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	C.H. Meier Blvd	1967	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Caledonia St	1998	50		5,132	29	235	
Hydrant	Caledonia St	1932	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Caledonia St	2009	50		5,132	40	188	-
Hydrant	Caledonia St	2009	50	2059	5,132	40	188	-
Hydrant	Caledonia St	1932	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Caledonia St	1932	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Caledonia St	2009	50	2059	5,132	40	188	-
Hydrant	Cambria St	1992	50	2042	5,132	23	281	-
Hydrant	Cambria St	1997	50	2047	5,132	28	241	-
Hydrant	Cambria St	1997	50	2047	5,132	28	241	-
Hydrant	Cambria St	1997	50	2047	5,132	28	241	-
Hydrant	Cambria St	1990	50	2040	5,132	21	302	-
Hydrant	Cambria St	1990	50	2040	5,132	21	302	-
Hydrant	Cambria St	1990	50		5,132	21	302	-
Hydrant	Cambria St	1994	50		5,132	25	263	-
Hydrant	Cambria St	1994	50		5,132	25	263	-
Hydrant	Cambria St	1994	50		5,132	25	263	-
Hydrant	Campbell Ct	1976	50		5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Campbell Ct	1987	50		5,132	18	342	
Hydrant	Canterbury Ave	1956	50		5,132 5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Canterbury Ave	1947	50		5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant	Caroline St	1940 1980	50 50		5,132	11	524	5,132
Hydrant Hydrant	Caroline St Cawston St	1967	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Cedar St	1975	50		5,132	6	suggested for 10 year capital forecast	5,132
Hydrant	Cedarbrae Dr	1986	50		5,132	17	359	-
Hydrant	Cedarbrae Dr	1986	50		5,132	17	359	-
Hydrant	Cedarbrae Dr	1991	50		5,132	22	291	-
Hydrant	Cedarbrae Dr	1991	50		5,132	22	291	-
Hydrant	Central High School	1930	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Centre St	1933	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Centre St	1933	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Charles St	1947	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Charles St	1940	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Charles St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Charles St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Cherry St	1925	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Chestnut St	2011	50		5,132	42	182	-
Hydrant	Church St	1922	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Church St	1992	50		5,132	23	281	-
Hydrant	Church St	1916	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Church St	2005	50		5,132	36	201	-
Hydrant	Church St	1925	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Church St	1922	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Church St	1939	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Church St	1922	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Church St	1980	50		5,132	11	524	-
Hydrant	Churchill Crcl	2003	50		5,132 5,132	34	209 263	-
Hydrant	Cluff Ct	1994	50		5,132	25	suggested for 10 year capital forecast	- - 122
Hydrant	Cobourg St	1910	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Cobourg St	1913	50			0		5,132
Hydrant	Cobourg St	1907	50	2019	5,132	0	suggested for 10 year capital forecast	5,132



				Hydrants				
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Hydrant	Cobourg St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Cody Dr	2004	50		5,132	35	205	-
Hydrant	College St	2005	50	2055	5,132	36	201	-
Hydrant	Cooper St	2006	50	2056	5,132	37	198	-
Hydrant	Corcoran St	1955	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Coriano St	1946	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Coriano St Coriano St	1946 1946	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Coriano St	2017	50		5,132	48	167	5,132
Hydrant	Crane Ave	1961	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Crane Ave	2009	50		5,132	40	188	-
Hydrant	Crane Ave	2009	50	2059	5,132	40	188	-
Hydrant	Crane Ave	2009	50	2059	5,132	40	188	-
Hydrant	Crane Ave	2009	50		5,132	40	188	-
Hydrant	Crawford St	1991	50		5,132	22	291	-
Hydrant	Crehan Cres	1976	50		5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Crooks St Crooks St	1931 1931	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant Hydrant	Daly Ave	1921	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Daly Ave	1921	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Dannecker Rd	2004	50		5,132	35	205	
Hydrant	Dannecker Rd	2004	50		5,132	35	205	-
Hydrant	Dannecker Rd	2004	50		5,132	35	205	-
Hydrant	Dawson St	1956	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Dawson St	2006	50		5,132	37	198	-
Hydrant	Deacon St	1976	50		5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Deep Well 4	1956 1926	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Delamere Ave Delamere Ave	1931	50		5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Demille St	1978	50		5,132	9	suggested for 10 year capital forecast	5,132
Hydrant	Denison St	1956	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Devon St	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Devon St	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Devon St	1968	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Devon St	1968	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Devon St	1954	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Devon St  Devon St	1955 1955	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant	Devon St	1976	50		5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Devon St	1976	50		5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Devon St	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Devon St	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Devon St	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Diana Ct	1966	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Dickens PI	1976	50		5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Dingman PI	1996	50		5,132 5,132	27	248 suggested for 10 year capital forecast	
Hydrant Hydrant	Dixon Rd Dixon Rd	1967 1967	50 50		5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Douglas St	2011	50		5,132	42	182	-
Hydrant	Douglas St	1975	50	2025	5,132	6	suggested for 10 year capital forecast	5,132
Hydrant	Douglas St	2008	50		5,132	39	191	-
Hydrant	Douglas St	2000	50	2050	5,132	31	224	-
Hydrant	Douglas St	2000	50		5,132	31	224	-
Hydrant	Douglas St	1921	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douglas St	1921	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douglas St	1986	50		5,132 5,132	17	359	- E 122
Hydrant Hydrant	Douro St  Douro St	1964 1964	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant	Douro St	1964	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douro St	1964	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douro St	1965	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douro St	1965	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douro St	1996	50	2046	5,132	27	248	-
Hydrant	Douro St	1963	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douro St	1963	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douro St	1920	50		5,132 5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douro St	1920 1920	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant Hydrant	Douro St  Douro St	1920	50		5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Douro St	1920	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douro St	1920	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Douro St	1939	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Dover St	1915	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydront	Downie St	1939	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Downie St		50		5,132	17	359	



				City of Stratfor				
Asset	Street	Year Installed	Estimated Life	Hydrants  Replacement  Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Hydrant	Downie St	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Downie St	1986	50	2036	5,132	17	359	-
Hydrant	Downie St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Downie St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Downie St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Downie St  Downie St	1959 1965	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Downie St	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Downie St	1940	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Downie St	1939	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Downie St	1939	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Downie St	1939	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Downie St	1939	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Dufferin St Dufferin St	1914 1914	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Dufferin St	1914	50	2019	5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Dufferin St	2008	50	2058	5,132	39	191	-
Hydrant	Dufferin St	1964	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Dufferin St	2015	50	2065	5,132	46	172	
Hydrant	Dufferin St	1992	50	2042	5,132	23	281	-
Hydrant	Dufferin Water Tower	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Dunlop PI	1991	50	2041	5,132	22	291	-
Hydrant	Dunlop PI	1991	50	2041	5,132	22	291 359	-
Hydrant	Dunn Rd	1986 1986	50 50	2036 2036	5,132 5,132	17 17	359	-
Hydrant Hydrant	Dunn Rd Dunn Rd	2001	50	2036	5,132	32	219	-
Hydrant	Dunn Rd	2001	50	2051	5,132	32	219	-
Hydrant	Dunn Rd	2001	50	2051	5,132	32	219	-
Hydrant	Dunn Rd	2001	50	2051	5,132	32	219	1
Hydrant	Dunn Rd	2001	50	2051	5,132	32	219	-
Hydrant	Dunn Rd	2001	50	2051	5,132	32	219	-
Hydrant	Dunn Rd	2001	50	2051	5,132		219	-
Hydrant	Dunn Rd	2001	50	2051	5,132 5,132	32	219 219	-
Hydrant Hydrant	Dunn Rd Durkin St	2001 2009	50 50	2051 2059	5,132	32 40	188	-
Hydrant	Eagle Dr	1998	50	2048	5,132	29	235	-
Hydrant	Eagle Dr	1998	50	2048	5,132	29	235	-
Hydrant	Easson St	1954	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Easson St	1999	50	2049	5,132	30	229	-
Hydrant	Easson St	1999	50	2049	5,132	30	229	-
Hydrant	Easson St	2015	50	2065	5,132	46	172	
Hydrant	East Gore St	1932	50	2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant	East Gore St Elgin Cres	1931 1964	50 50	2019 2019	5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant Hydrant	Elgin Cres	1964	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Elgin Cres	1964	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Elgin Cres	1964	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Elgin Cres	1964	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Elgin Cres	1964	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Elgin Cres	1964	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Elizabeth St	2002	50	2052	5,132 5,132	33	214 255	-
Hydrant Hydrant	Elizabeth St Elizabeth St	1995 1995	50 50	2045 2045	5,132	26 26	255	-
Hydrant	Elm St	2007	50	2043	5,132	38	194	
Hydrant	Erie St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Erie St	1985	50	2035	5,132	16	378	-
Hydrant	Erie St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Erie St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Erie St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Erie St	2006	50	2056	5,132	37	198	-
Hydrant	Erie St	2006	50	2056	5,132 5,132	37	198 198	-
Hydrant Hydrant	Erie St Erie St	2006 2006	50 50	2056 2056	5,132	37 37	198	-
Hydrant	Erie St	2006	50	2056	5,132	37	198	-
Hydrant	Erie St	1912	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Erie St	1912	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Erie St	2011	50	2061	5,132	42	182	-
Hydrant	Erie St	1921	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Erie St	1921	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Erie St	1921	50		5,132	1	suggested for 10 year capital forecast	5,132
Hydrant	Erie St	1921	50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Erie St Erie St	1960 1997	50 50		5,132	0 28	suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Erie St	1997	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Erie St	1961	50		5,132	0	suggested for 10 year capital forecast	5,132
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				Hydrants					
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast	
Hydrant	Erie St	1963	50	2019	5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Erie St	1970	50	2020	5,132	1	suggested for 10 year capital forecast	5,132	
Hydrant	Erie St	1970	50	2020	5,132	1	suggested for 10 year capital forecast	5,132	
Hydrant	Erie St-Field	1967	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Essex St	1964	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Fairfield Dr	2006	50		5,132 5,132	37	198 198	-	
Hydrant Hydrant	Fairfield Dr Fairfield Dr	2006 2006	50 50		5,132	37 37	198	-	
Hydrant	Fairfield Dr	2006	50		5,132	37	198		
Hydrant	Fairfield Dr	2010	50		5,132	41	185	-	
Hydrant	Fairfield Dr	2010	50		5,132	41	185	-	
Hydrant	Fairfield Dr	2010	50	2060	5,132	41	185	-	
Hydrant	Falstaff St	1992	50	2042	5,132	23	281	-	
Hydrant	Falstaff St	1992	50		5,132	23	281	-	
Hydrant	Feick Cres	1962	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Feick Cres	1962	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Feick Cres	1962 2010	50 50		5,132 5,132	0 41	suggested for 10 year capital forecast 185	5,132	
Hydrant Hydrant	Findlay PI Findlay PI	2010	50		5,132	41	185	-	
Hydrant	Forman Ave	1991	50		5,132	22	291	_	
Hydrant	Forman Ave	1970	50		5,132	1	suggested for 10 year capital forecast	5,132	
Hydrant	Forman Ave	1970	50		5,132	1	suggested for 10 year capital forecast	5,132	
Hydrant	Forman Ave	1998	50		5,132	29	235	-	
Hydrant	Forman Ave	1962	50	2019	5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Forman Ave	1962	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Forman Ave	1975	50		5,132	6	suggested for 10 year capital forecast	5,132	
Hydrant	Forman Ave	1975	50		5,132	6	suggested for 10 year capital forecast	5,132	
Hydrant	Forman Ave	1969 2000	50 50		5,132 5,132	0 31	suggested for 10 year capital forecast 224	5,132	
Hydrant Hydrant	Franklin Dr Franklin Dr	2000	50		5,132	31	224	-	
Hydrant	Frederick St	1935	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Frederick St	1923	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Frederick St	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Frederick St	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Frederick St	2005	50		5,132	36	201	-	
Hydrant	Freeland Dr	1989	50		5,132	20	314	-	
Hydrant	Freeland Dr	1989	50		5,132 5,132	20	314 314	-	
Hydrant	Freeland Dr Front St	1989 1912	50 50		5,132	20 0	suggested for 10 year capital forecast	5 122	
Hydrant Hydrant	Front St	2000	50		5,132	31	224	5,132	
Hydrant	Front St	1921	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Front St	1921	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Front St	1926	50	2019	5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Futaba Automotive	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Galt Rd	1977	50		5,132	8	suggested for 10 year capital forecast	5,132	
Hydrant	Galt Rd	2015	50		5,132	46	172	-	
Hydrant	Galt Rd	1987	50		5,132	18	342	-	
Hydrant	Gemmell Ct	1993 1930	50 50		5,132 5,132	24 0	271 suggested for 10 year capital forecast	- E 122	
Hydrant Hydrant	George St E George St W	2004	50		5,132	35	205	5,132	
Hydrant	George St W	2004	50		5,132	35	205	_	
Hydrant	Glastonbury Cres	1952	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Glastonbury Dr	1953	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Glastonbury Dr	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132	
Hydrant	Glastonbury Dr	1962	50	2019	5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Glastonbury Dr	1952	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Glastonbury Dr	1952	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Glendon Rd	1963	50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132	
Hydrant Hydrant	Glendon Rd Glendon Rd	1965 1972	50 50		5,132	3	suggested for 10 year capital forecast	5,132 5,132	
Hydrant Hydrant	Glendon Rd Glendon Rd	1972	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Glendon Rd	1966	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Glendon Rd	1972	50		5,132	3	suggested for 10 year capital forecast	5,132	
Hydrant	Gordon St	1956	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Graff Ave	1971	50		5,132	2	suggested for 10 year capital forecast	5,132	
Hydrant	Graff Ave	1971	50		5,132	2	suggested for 10 year capital forecast	5,132	
Hydrant	Graff Ave	1966	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Graff Ave	1967	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Graff Ave	1967	50		5,132	0	suggested for 10 year capital forecast	5,132	
Hydrant	Graham Cres	1976	50		5,132 5,132	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132	
Hydrant	Graham Cres	1976	50		5,132	7	suggested for 10 year capital forecast	5,132 5,132	
Hydrant Hydrant	Graham Cres Grant St	1976 1950	50 50		5,132	0	suggested for 10 year capital forecast	5,132 5,132	
HIYMIUH	CHAIR OL	1900	50	2013		, , , , , , , , , , , , , , , , , , ,		٥,١٥٧	
Hydrant	Grant St	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132	



				City of Stratfor	u			
Asset	Street	Year Installed	Estimated Life	Hydrants  Replacement  Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Hydrant	Greenberg PI	2006	50	2056	5,132	37	198	-
Hydrant	Greenwood Dr	1977	50	2027	5,132	8	suggested for 10 year capital forecast	5,132
Hydrant	Greenwood Dr	1977	50	2027	5,132	8	suggested for 10 year capital forecast	5,132
Hydrant	Greenwood Dr	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Greenwood Dr	1987	50	2037	5,132	18	342	-
Hydrant	Greenwood Dr	1987	50	2037	5,132	18	342	-
Hydrant	Greenwood Dr	1989	50	2039	5,132	20	314	-
Hydrant	Gregory Cres	2001	50	2051	5,132	32	219	-
Hydrant	Gregory Cres	2001	50	2051	5,132	32	219	-
Hydrant	Gregory Cres	2001	50	2051	5,132	32	219	
Hydrant	Griffith Rd	1976	50	2026	5,132 5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Griffith Rd	1976	50	2026 2029	5,132	7 10	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Griffith Rd Griffith Rd	1979 1979	50 50	2029	5,132	10	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Griffith Rd	1979	50	2029	5,132	10	suggested for 10 year capital forecast	5,132
Hydrant	Griffith Rd	1987	50	2023	5,132	18	342	5,152
Hydrant	Griffith Rd W	1991	50	2041	5,132	22	291	_
Hydrant	Griffith Rd W	1991	50	2041	5,132	22	291	_
Hydrant	Griffith Rd W	1989	50	2039	5,132	20	314	_
Hydrant	Griffith Rd W	1991	50	2041	5,132	22	291	_
Hydrant	Griffith Rd W	2009	50	2059	5,132	40	188	-
Hydrant	Guelph St	2017	50	2067	5,132	48	167	-
Hydrant	Guelph St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Guthrie Ave	1948	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hahn Ct	1991	50	2041	5,132	22	291	-
Hydrant	Haig St	1964	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hamilton St	2006	50	2056	5,132	37	198	-
Hydrant	Harrison St	2006	50	2056	5,132	37	198	-
Hydrant	Harrison St	2006	50	2056	5,132	37	198	-
Hydrant	Hayashi Canada Inc	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hesson St	1948	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hibernia St	2000	50	2050	5,132	31	224	_
Hydrant	Hibernia St	2000	50	2050	5,132	31	224	-
Hydrant	Hibernia St	2000	50	2050	5,132	31	224	-
Hydrant	Hibernia St	2007	50	2057	5,132	38	194	
Hydrant	Hibernia St	1962	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hibernia St	1962	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hibernia St	1966	50	2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant	Hibernia St Hibernia St	1966	50	2019	5,132	0	327	5,132
Hydrant	Hibernia St	1988 1975	50 50	2038 2025	5,132	19 6	suggested for 10 year capital forecast	- 5 122
Hydrant	Home St	1975	50	2025	5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant Hydrant	Home St	2009	50	2019	5,132	40	188	5,132
Hydrant	Home St	1923	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Home St	1996	50	2046	5,132	27	248	
Hydrant	Home St	1996	50		5,132	27	248	-
Hydrant	Home St	1996	50	2046	5,132	27	248	-
Hydrant	Home St	1996	50	2046	5,132	27	248	-
Hydrant	Home St	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Home St	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hossie Terr	2004	50	2054	5,132	35	205	-
Hydrant	Hossie Terr	2004	50	2054	5,132	35	205	-
Hydrant	Hossie Terr	2004	50	2054	5,132	35	205	-
Hydrant	Humber St	1979	50	2029	5,132	10	suggested for 10 year capital forecast	5,132
Hydrant	Huntingdon Ave	1962	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Huntingdon Ave	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Huntingdon Ave	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Huron St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Huron St	1993	50	2043	5,132	24	271	-
Hydrant	Huron St	1937	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Huron St	1930	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Huron St	1931	50	2019	5,132 5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Huron St	1960	50	2019	5,132 5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Huron St	1959	50	2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant	Huron St Huron St	1959 1959	50 50	2019 2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Huron St Huron St	2004	50	2019	5,132	35	suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Huron St	2004	50	2054	5,132	35	205	-
Hydrant	Hyde Rd	1999	50	2054	5,132	30	229	-
Hydrant	Hydrant-256	2013	50		5,132	44	176	
Hydrant	Hydrant-317	1919	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-329	1906	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-34	1968	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-606	2004	50		5,132	35	205	
Hydrant	Hydrant-653	1989	50		5,132	20	314	
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				Hydrants				
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Hydrant	Hydrant-654	1989	50	2039	5,132	20	314	-
Hydrant	Hydrant-674	1991	50	2041	5,132	22	291	-
Hydrant Hydrant	Hydrant-905 Hydrant-P000	2014 1997	50 50	2064 2047	5,132 5,132	45 28	174 241	-
Hydrant	Hydrant-P000	2008	50	2058	5,132	39	191	-
Hydrant	Hydrant-P1	1991	50	2041	5,132	22	291	-
Hydrant	Hydrant-P10	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P100	1953	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant P101	1900	50	2019	5,132 5,132	0	suggested for 10 year capital forecast 241	5,132
Hydrant Hydrant	Hydrant-P102 Hydrant-P103	1997 1900	50 50	2047 2019	5,132	28 0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P105	1998	50	2048	5,132	29	235	-
Hydrant	Hydrant-P106	1998	50	2048	5,132	29	235	-
Hydrant	Hydrant-P107	1998	50	2048	5,132	29	235	-
Hydrant	Hydrant-P11	1900	50	2019	5,132 5,132	0	suggested for 10 year capital forecast 205	5,132
Hydrant Hydrant	Hydrant-P117 Hydrant-P118	2004 2004	50 50	2054 2054	5,132	35 35	205	-
Hydrant	Hydrant-P12	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P121	2007	50	2057	5,132	38	194	-
Hydrant	Hydrant-P124	2002	50	2052	5,132	33	214	-
Hydrant	Hydrant-P125	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Hydrant-P13 Hydrant-P134	1900 1931	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant	Hydrant-P135	2006	50	2019	5,132	37	198	-
Hydrant	Hydrant-P136	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P14	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P15	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P16	1900	50	2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Hydrant-P17 Hydrant-P18	1900 1900	50 50	2019 2019	5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Hydrant-P19	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P2	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P20	1928	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P21	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Hydrant-P22 Hydrant-P23	1900 1900	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant	Hydrant-P24	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P25	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P26	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P27	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant P20	1900	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Hydrant-P29 Hydrant-P3	1900 1992	50	2019	5,132	23	281	5,132
Hydrant	Hydrant-P30	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P31	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P32	1994	50	2044	5,132	25	263	-
Hydrant	Hydrant-P33	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Hydrant-P34 Hydrant-P35	1900 1900	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant	Hydrant-P36	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P37	1993	50	2043	5,132	24	271	-
Hydrant	Hydrant-P38	1993	50	2043	5,132	24	271	-
Hydrant	Hydrant-P39	1993	50	2043	5,132	24	271	-
Hydrant Hydrant	Hydrant-P4 Hydrant-P40	1992 1993	50 50	2042 2043	5,132 5,132	23 24	281 271	-
Hydrant	Hydrant-P40 Hydrant-P41	1993	50	2043	5,132	24	271	-
Hydrant	Hydrant-P42	1996	50	2046	5,132	27	248	-
Hydrant	Hydrant-P43	1987	50	2037	5,132	18	342	-
Hydrant	Hydrant-P44	1987	50	2037	5,132	18	342	-
Hydrant	Hydrant P46	1993	50	2043	5,132 5,132	24	271	- E 400
Hydrant Hydrant	Hydrant-P46 Hydrant-P47	1900 1900	50 50	2019 2019	5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant	Hydrant-P48	1990	50	2040	5,132	21	302	
Hydrant	Hydrant-P49	1990	50	2040	5,132	21	302	-
Hydrant	Hydrant-P5	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant P50	1900	50	2019	5,132 5,132	0	suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Hydrant-P51 Hydrant-P53	1900 1959	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant	Hydrant-P54	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P6	1900	50		5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P60	1976	50		5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Hydrant-P61	1976	50		5,132	7	suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Hydrant-P62	1991 1900	50 50		5,132 5,132	22 0	291 suggested for 10 year capital forecast	- 5,132
Hydrant Hydrant	Hydrant-P63 Hydrant-P64	1900	50		5,132	2	suggested for 10 year capital forecast	5,132 5,132
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Note					Hydrants				
	Asset	Street				Replacemen		Annual Lifecycle Contribution	be included in 10 year
September   Sept	•	1						, ,	5,132
Pagement   Pagement   Pagement   1990   50   2009   5.132   0   Supposed for 10 year opical forceasts   5.132	•			i					
				1			1		
## Agreement				1			1	, ,	
## Anderson								, ,	
Hydrord   Hydrord PF7	Hydrant	-						, ,	
Industrial   Ind	Hydrant	Hydrant-P71	1980	50	2030	5,132	11	524	-
Network   Netw	Hydrant	Hydrant-P72	1900	50	2019		0	suggested for 10 year capital forecast	5,132
	Hydrant			1				, ,	
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Hydramin		Hydrant-P79	1900	50	2019	5,132	0	suggested for 10 year capital forecast	
Price	Hydrant	Hydrant-P8	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydramic	Hydrant	Hydrant-P83	1900	50	2019		0	suggested for 10 year capital forecast	5,132
hydramin	Hydrant	1 1		i			1	, ,	
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Hedmant	Hydrant	·							
Hydrant	Hydrant			1		5,132			-
Hydrant	Hydrant	Hydrant-P91	1900	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydram	Hydrant	Hydrant-P95	1965	50	2019		0	, ,	5,132
Hydrant Hydrant Hydrann-Pee	Hydrant	1 1		1					
Hydrant							1		
Hydram   Intermess St   2007   50   2057   5.132   38   194		·						, ,	
Hydrant   Jennes St   1993   50   2043   5.132   24   271									5,132
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Hydrant         John St S         1987         50         2037         5,132         18         342				1					
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Hydrant         Kathryn Cres         1968         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kathryn Cres         1973         50         2023         5,132         4         suggested for 10 year capital forecast         5,132           Hydrant         Key St         1991         50         2041         5,132         22         291         -           Hydrant         Kemp Cres         1967         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1968         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1967         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1967         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kenner Cres         1977         50         2027         5,132         8         suggested for 10 year capital forecast         5,132           Hydrant<	Hydrant				2019	5,132		suggested for 10 year capital forecast	5,132
Hydrant         Kathryn Cres         1973         50         2023         5,132         4         suggested for 10 year capital forecast         5,132           Hydrant         Kay St         1991         50         2041         5,132         22         22         291         -           Hydrant         Kemp Cres         1967         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1967         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1967         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1967         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemner Cres         1967         50         2019         5,132         8         suggested for 10 year capital forecast         5,132           Hydrant         Killoran Cres         1993         50         2043         5,132         24         224         271         -           Hydr	Hydrant	Kathryn Cres	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant         Kay St         1991         50         2041         5,132         22         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1967         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1968         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1967         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1967         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Kemp Cres         1967         50         2027         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Killoran Cres         1993         50         2043         5,132         24         9         271         -           Hydrant         Killoran Cres         1993         50         2043         5,132         24         9         202         205         - <tr< td=""><td>Hydrant</td><td>Kathryn Cres</td><td>1968</td><td>50</td><td></td><td></td><td>0</td><td></td><td></td></tr<>	Hydrant	Kathryn Cres	1968	50			0		
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Hydrant         King St         1916         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Lightbourne Ave         1978         50         2028         5,132         9         suggested for 10 year capital forecast         5,132           Hydrant         Lightbourne Ave         1993         50         2043         5,132         24         271         -           Hydrant         Lightbourne Ave         2002         50         2052         5,132         33         214         -           Hydrant         Linden Ct         1976         50         2026         5,132         7         suggested for 10 year capital forecast         5,132           Hydrant         Line 29         2009         50         2026         5,132         7         suggested for 10 year capital forecast         5,132           Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Linte Thames Pl         2011         50         2058	Hydrant								
Hydrant         Lightbourne Ave         1993         50         2043         5,132         24         271         -           Hydrant         Lightbourne Ave         2002         50         2052         5,132         33         214         -           Hydrant         Linden Ct         1976         50         2026         5,132         7         suggested for 10 year capital forecast         5,132           Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Linton Ave         2008         50         2058         5,132         39         191         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -	Hydrant			50	2019	5,132	0	suggested for 10 year capital forecast	
Hydrant         Lightbourne Ave         2002         50         2052         5,132         33         214         -           Hydrant         Linden Ct         1976         50         2026         5,132         7         suggested for 10 year capital forecast         5,132           Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Linton Ave         2008         50         2058         5,132         39         191         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Lioyd Ct         1991         50         2041         5,132         22         291         -	Hydrant	Lightbourne Ave			2028			, ,	5,132
Hydrant         Linden Ct         1976         50         2026         5,132         7         suggested for 10 year capital forecast         5,132           Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Linton Ave         2008         50         2058         5,132         39         191         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Lityl Ct         1991         50         2041         5,132         22         291         -	Hydrant	-							-
Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Linton Ave         2008         50         2058         5,132         39         191         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Lloyd Ct         1991         50         2041         5,132         22         291         -	Hydrant	<u> </u>		1					-
Hydrant         Line 29         2009         50         2059         5,132         40         188         -           Hydrant         Linton Ave         2008         50         2058         5,132         39         191         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Lloyd Ct         1991         50         2041         5,132         22         291         -				1				, ,	
Hydrant         Linton Ave         2008         50         2058         5,132         39         191         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Lloyd Ct         1991         50         2041         5,132         22         291         -									-
Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Lloyd Ct         1991         50         2041         5,132         22         291         -				1					-
Hydrant         Little Thames PI         2011         50         2061         5,132         42         182         -           Hydrant         Lloyd Ct         1991         50         2041         5,132         22         291         -									
Hydrant Lloyd Ct 1991 50 2041 5,132 22 291 -	Hydrant								
Hydrant Long Dr 1998 50 2048 5,132 29 235 -	Hydrant					5,132			-
	Hydrant	Long Dr	1998	50	2048	5,132	29	235	-



Hydrants										
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast		
Hydrant	Long Dr	1998	50	2048	5,132	29	235	-		
Hydrant	Long Dr	1998	50	2048	5,132	29	235	-		
Hydrant	Long Dr	1998	50	2048	5,132	29	235	-		
Hydrant	Long Dr	1998	50	2048	5,132	29	235	-		
Hydrant	Long Dr	1998	50	2048	5,132	29	235 291	-		
Hydrant Hydrant	Lorne Ave E	1991 1991	50 50	2041	5,132 5,132	22 22	291	-		
Hydrant	Lorne Ave E	1955	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave E	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave E	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave E	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave E	1965	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave E	1965	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave E	1965	50	2019	5,132 5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Lorne Ave E	2017 1965	50 50	2067 2019	5,132	48 0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave W	1978	50	2019	5,132	9	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave W	1978	50	2028	5,132	9	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave W	1977	50	2027	5,132	8	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave W	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave W	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave W	2016	50	2066	5,132	47	169	-		
Hydrant	Lorne Ave W	2016	50	2066	5,132	47	169	-		
Hydrant	Lorne Ave W	2016	50	2066	5,132	47	169 169	-		
Hydrant Hydrant	Lorne Ave W	2016 1968	50 50	2066 2019	5,132 5,132	47 0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave W	2016	50	2019	5,132	47	169	5,132		
Hydrant	Lorne Ave W	1963	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave W	1955	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave W	1955	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Lorne Ave. Pump House	1978	50	2028	5,132	9	suggested for 10 year capital forecast	5,132		
Hydrant	Louise St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Louise St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Louise St	1931	50	2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Magwood Ct Makins St	1979 1985	50 50	2029 2035	5,132	10 16	378	5,132		
Hydrant	Maple Ave	1966	50	2035	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Maple Ave	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Maple Ave	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Maple Ave	1975	50	2025	5,132	6	suggested for 10 year capital forecast	5,132		
Hydrant	Maple Ave	1975	50	2025	5,132	6	suggested for 10 year capital forecast	5,132		
Hydrant	Maple Ave	1975	50	2025	5,132	6	suggested for 10 year capital forecast	5,132		
Hydrant	Maple Ave	1975	50	2025	5,132	6	suggested for 10 year capital forecast	5,132		
Hydrant	Market Pl	1964	50	2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Market PI Market PI	1964 2017	50 50	2019 2067	5,132	48	167	5,132		
Hydrant	Market PI	2017	50	2067	5,132	48	167			
Hydrant	Matilda St	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Matilda St	2015	50	2065	5,132	46	172	-		
Hydrant	Matilda St	2015	50	2065	5,132	46	172	-		
Hydrant	Matilda St	1991	50	2041	5,132	22	291	-		
Hydrant	Matilda St	1991	50	2041	5,132	22	291	-		
Hydrant	Matilda St	1991	50	2041	5,132	22	291	-		
Hydrant	Matilda St Matilda St	1991 1991	50 50	2041 2041	5,132 5,132	22 22	291 291	-		
Hydrant Hydrant	Matilda St	1968	50	2041	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Matilda St	2000	50	2050	5,132	31	224	-		
Hydrant	Matilda St	2000	50	2050	5,132	31	224	-		
Hydrant	Mayberry PI	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Mccarthy Rd E	2010	50	2060	5,132	41	185	-		
Hydrant	Mccarthy Rd W	2007	50	2057	5,132	38	194	-		
Hydrant	Mccarthy Rd W	2007	50	2057	5,132	38	194	-		
Hydrant	Mccarthy Rd W	2007	50	2057	5,132	38	194	-		
Hydrant	Mccarthy Rd W	1976	50	2026	5,132 5,132	7	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Mccrathy Road  Mcdonald St	2007 1956	50 50	2057 2019	5,132	38 0	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Mcfarlane St	1956	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Mcgregor St	1990	50	2019	5,132	21	302	-		
Hydrant	Mcmanus Rd	2000	50	2050	5,132	31	224	-		
Hydrant	Mcmanus Rd	2000	50		5,132	31	224	-		
Hydrant	Mcnab St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Mcqueen Ct	1992	50		5,132	23	281	-		
Hydrant	Meighen Mews	1976	50		5,132	7	suggested for 10 year capital forecast	5,132		
Hydrant	Mercer St	1946	50		5,132 5,132	0	suggested for 10 year capital forecast 176	5,132		
Hydrant	Mercer St	2013	50	2063	5,132	44	176	-		



				City of Stratfor	<b>-</b>			
Asset	Street	Year Installed	Estimated Life	Hydrants Replacement Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Hydrant	Milton St	2000	50	2050	5,132	31	224	-
Hydrant	Milton St	2000	50	2050	5,132	31	224	-
Hydrant	Moderwell St	1989	50	2039	5,132	20	314	-
Hydrant	Moore St	2000	50	2050	5,132	31	224	
Hydrant	Morenz Dr	1915	50	2019	5,132 5,132	0	suggested for 10 year capital forecast 291	5,132
Hydrant Hydrant	Morgan St Morison St	1991 1956	50 50	2041 2019	5,132	22 0	suggested for 10 year capital forecast	5,132
Hydrant	Mornington Pump House	1963	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Mornington Pump House	1963	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Mornington St	1999	50	2049	5,132	30	229	-
Hydrant	Mornington St	1989	50	2039	5,132	20	314	-
Hydrant Hydrant	Mornington St  Mornington St	1964 1970	50 50	2019 2020	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132
Hydrant	Mornington St	1970	50	2020	5,132	1	suggested for 10 year capital forecast	5,132
Hydrant	Mornington St	1970	50	2020	5,132	1	suggested for 10 year capital forecast	5,132
Hydrant	Mornington St	1924	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Mornington St	1972	50	2022	5,132	3	suggested for 10 year capital forecast	5,132
Hydrant	Mornington St	1971	50	2021	5,132	2	suggested for 10 year capital forecast	5,132
Hydrant	Mowat St	1920	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Mowat St	1920	50	2019	5,132 5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Mowat St Murray Hill Rd	1965 1971	50 50	2019 2021	5,132	0 2	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Murray Hill Rd	2000	50	2050	5,132	31	224	5,132
Hydrant	Neal Ave	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Neal Ave	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Neal Ave	1979	50	2029	5,132	10	suggested for 10 year capital forecast	5,132
Hydrant	Neal Ave	1979	50	2029	5,132	10	suggested for 10 year capital forecast	5,132
Hydrant	Nelson St	2007	50	2057	5,132	38	194	-
Hydrant	Nelson St	1992	50	2042	5,132	23	281	-
Hydrant	Nelson St Nelson St	1992 1992	50 50	2042 2042	5,132 5,132	23 23	281 281	-
Hydrant Hydrant	Nelson St	2007	50	2042	5,132	38	194	
Hydrant	Nelson St	1915	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Nelson St	1979	50	2029	5,132	10	suggested for 10 year capital forecast	5,132
Hydrant	Nelson St	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Nelson St	1921	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Nethercott Dr	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132
Hydrant	Nightingale Pl	1991	50	2041	5,132	22	291	-
Hydrant	Nightingale PI	1991	50	2041	5,132 5,132	22	291 suggested for 10 year capital forecast	- - 100
Hydrant Hydrant	Nile St Nile St	1915 1931	50 50	2019 2019	5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Nile St	1996	50	2046	5,132	27	248	-
Hydrant	Nile St	1996	50	2046	5,132	27	248	-
Hydrant	Nile St	1930	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Nile St	1992	50	2042	5,132	23	281	-
Hydrant	Nile St	1930	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Nile St	2013	50	2063	5,132	44	176	
Hydrant	Norfolk St Norfolk St	1922 1924	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132
Hydrant Hydrant	Norman St	1924	50	2019	5,132	0	suggested for 10 year capital forecast	5,132 5,132
Hydrant	Norman St	1993	50	2043	5,132	24	271	-
Hydrant	Norman St	1985	50	2035	5,132	16	378	-
Hydrant	Norman St	2010	50	2060	5,132	41	185	-
Hydrant	Norman St	2010	50	2060	5,132	41	185	-
Hydrant	Norman St	1919	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Norman St	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	Norman St	1997	50	2047	5,132	28	241	-
Hydrant Hydrant	Norman St Normandy Dr	2003 1946	50 50	2053 2019	5,132 5,132	34 0	suggested for 10 year capital forecast	5,132
Hydrant	Normandy Dr	2000	50	2019	5,132	31	224	5,132
Hydrant	Nornabell Ct	2004	50	2054	5,132	35	205	-
Hydrant	Nornabell Ct	2004	50	2054	5,132	35	205	-
Hydrant	North St	1908	50	2019	5,132	0	suggested for 10 year capital forecast	5,132
Hydrant	North Street	1987	50	2037	5,132	18	342	-
Hydrant	Northway Crcl	1989	50	2039	5,132	20	314	-
Hydrant	Norwood Ct	1987	50	2037	5,132 5,132	18	342 327	-
Hydrant Hydrant	Norwood Ct Oak St	1988 2009	50 50	2038 2059	5,132	19 40	188	-
Hydrant	Oak St	1973	50	2059	5,132	40	suggested for 10 year capital forecast	5,132
Hydrant	Oakdale Ave	1973	50		5,132		291	-
Hydrant	Oakdale Ave	1991	50	2041	5,132	22	291	-
Hydrant	Oakdale Ave	1991	50	2041	5,132	22	291	-
Hydrant	Oakdale Ave	1991	50	2041	5,132	22	291	-
Hydrant	Oakdale Ave	1991	50	2041	5,132	22	291	-
Hydrant	Oakdale Ave	1991	50	2041	5,132	22	291	-



Hydrants										
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast		
Hydrant	Oakdale Ave	1991	50	2041	5,132	22	291	-		
Hydrant	Ocwa Sewage Plant	2004	50	2054	5,132	35	205	-		
Hydrant	Ocwa Sewage Plant	2004	50	2054	5,132	35	205	-		
Hydrant	Ocwa Sewage Plant	2004	50	2054	5,132	35	205 205	-		
Hydrant Hydrant	Ocwa Sewage Plant Ocwa Sewage Plant	2004 2004	50 50	2054 2054	5,132 5,132	35 35	205	-		
Hydrant	O'Loane Ave	1989	50	2039	5,132	20	314			
Hydrant	O'Loane Ave	1989	50	2039	5,132	20	314	-		
Hydrant	O'Loane Ave	2016	50	2066	5,132	47	169	-		
Hydrant	O'Loane Ave	2004	50	2054	5,132	35	205	-		
Hydrant Hydrant	O'Loane Ave O'Loane Ave	2004 2004	50 50	2054 2054	5,132 5,132	35 35	205 205	-		
Hydrant	O'Loane Ave	2004	50	2054	5,132	35	205	<u>-</u>		
Hydrant	O'Loane Ave	2004	50	2054	5,132	35	205	-		
Hydrant	O'Loane Ave	2004	50	2054	5,132	35	205	-		
Hydrant	O'Loane Ave	2004	50	2054	5,132	35	205	-		
Hydrant	O'Loane Ave	2004 2004	50 50	2054 2054	5,132 5,132	35 35	205 205	-		
Hydrant Hydrant	O'Loane Ave O'Loane Ave	2004	50	2054	5,132	35	205			
Hydrant	O'Loane Ave	2004	50	2054	5,132	35	205	-		
Hydrant	O'Loane Ave	2004	50	2054	5,132	35	205	-		
Hydrant	O'Loane Ave	2004	50	2054	5,132	35	205	-		
Hydrant	Ontario St	1931	50 50	2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Ontario St Ontario St	1942 1935	50	2019 2019	5,132	0	suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Ontario St	1935	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Ontario St	1935	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Ontario St	1935	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Ontario St	1964	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Ontario St Ontario St	1935 2008	50 50	2019 2058	5,132 5,132	0 39	suggested for 10 year capital forecast	5,132		
Hydrant	Ontario St	2008	50	2058	5,132	39	191			
Hydrant	Ontario St	2008	50	2058	5,132	39	191	-		
Hydrant	Ontario St	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Ontario St	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Ontario St Ontario St	1966 1966	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Ontario St	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Ontario St	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Ontario St	1967	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Ontario St	1967	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Ontario St Ontario St	1967 1967	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Ontario St	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Ontario St	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Ontario St	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Oxford St	1957	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Oxford St Oxford St	1965 2017	50 50	2019 2067	5,132 5,132	0 48	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Oxford St	2017	50	2067	5,132	48	167	<u> </u>		
Hydrant	Oxford St	2017	50	2067	5,132	48	167	-		
Hydrant	Oxford St	2017	50	2067	5,132	48	167	-		
Hydrant	Oxford St	2017	50	2067	5,132	48	167	-		
Hydrant	Packham Ave	1969	50	2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Packham Ave Packham Ave	1969 1969	50 50	2019 2019	5,132	0	suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Packham Ave	1997	50	2019	5,132	28	241	-		
Hydrant	Packham Ave	1997	50	2047	5,132	28	241	-		
Hydrant	Packham Ave	1997	50	2047	5,132	28	241	-		
Hydrant	Packham Ave	1997	50	2047	5,132	28	euggested for 10 year capital forecast			
Hydrant Hydrant	Park Lane Dr Park Lane Dr	1967 1971	50 50	2019 2021	5,132 5,132	2	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Park Lane Dr	1973	50	2023	5,132	4	suggested for 10 year capital forecast	5,132		
Hydrant	Park St	1993	50	2043	5,132	24	271	-,		
Hydrant	Park St	2005	50	2055	5,132	36	201	-		
Hydrant	Park St	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Park St Park St	1968 1968	50 50	2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132		
Hydrant Hydrant	Park St Parkview Dr	1968	50	2019 2019	5,132	0	suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Parkview Dr	2010	50		5,132	41	185	-		
Hydrant	Patricia Rd	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Patricia Rd	1974	50	2024	5,132	5	suggested for 10 year capital forecast	5,132		
Hydrant	Patricia Rd	1973	50	2023	5,132	4	suggested for 10 year capital forecast	5,132		
Hydrant	Perth Line 36	2017	50	2067	5,132 5,132	48	167 suggested for 10 year capital forecast	- E 400		
Hydrant	Perth St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		



Property   Property   1984   1984   1985   1986	Hydrants										
The Bill   1925   1926	Asset	Street			-	Replacemen		Annual Lifecycle Contribution	be included in 10 year		
Separate   Separate	Hydrant	Perth St	1931	50	2019		0	suggested for 10 year capital forecast	5,132		
Processor   Processor   1996	Hydrant							, ,			
Property   Property									•		
Part								, ,			
Product   Covers								, ,			
Processor	Hydrant							, ,			
Processed   Queen Si	Hydrant	Queen St	1924	50	2019	5,132	0	suggested for 10 year capital forecast			
Processed   Course St	Hydrant	Queen St						, ,			
Processor   Committee   Comm	Hydrant							, ,			
Anglement								, ,			
Published   Demonstrant Ref   1976   60   2027   5.132   8   19.00gested for 10 year capital forecasts   5.132   6.132   8.132   8.130gested for 10 year capital forecasts   5.132   6.132   8.130gested for 10 year capital forecasts   5.132   6.132   8.130gested for 10 year capital forecasts   5.132   6.132   8.130gested for 10 year capital forecasts   5.132   6.132   8.130gested for 10 year capital forecasts   5.132   6.132   8.130gested for 10 year capital forecasts   5.132   6.1						-		, ,			
Newtonian	Hydrant							, ,	-		
Newtonian	Hydrant	Queensland Rd	1977	50	2027	5,132	8	suggested for 10 year capital forecast			
Nedword Nations Assessment Services Assessment	Hydrant	Queensland Rd	1977	50	2027		8	, ,	5,132		
Processor   Proc	Hydrant								-		
Processor   Proc	Hydrant	<u> </u>						, ,	5,132		
Anglement   Submer Ava   2007   50   2007   5.132   38   194   194				1			1		<u> </u>		
Part	Hydrant	İ									
Hysteant	Hydrant							194			
House   Hous	Hydrant	Railway Ave	1916	50	2019		0	·	5,132		
Action   Rankin St	Hydrant								-		
Note	Hydrant							, ,	•		
Hydrant   Redowd Cres   1964   50   2019   5.132   0   suggested for 10 year capital forecast   1.524								, ,			
Neutrant   Radrord Cres   1964   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Neutrant   Radrord Cres   1969   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Neutrant   Radrord Cres   1965   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   2005   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   1962   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   1965   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   1965   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   1965   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   1967   56   2011   5,132   22   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   1967   56   2011   5,132   22   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   1968   56   2018   5,132   29   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   1968   56   2018   5,132   29   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   1968   56   2018   5,132   29   suggested for 10 year capital forecast   5,132   Neutrant   Ragent St   1968   56   2018   5,132   29   suggested for 10 year capital forecast   7,132   Neutrant   Ragent St   1968   56   2018   5,132   29   suggested for 10 year capital forecast   7,132   Neutrant   Ragent St   1968   56   2018   5,132   29   suggested for 10 year capital forecast   1960   19								, ,			
Nedmant   Redmant Cree   1988   50   2019   5.132   0   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   2005   50   2019   5.132   0   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   2005   50   2019   5.132   0   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   19825   50   2019   5.132   0   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   19825   50   2019   5.132   0   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   19825   50   2019   5.132   0   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1991   50   2041   5.132   22   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1991   50   2041   5.132   22   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1991   50   2041   5.132   22   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1991   50   2041   5.132   22   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1998   50   2048   5.132   29   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1998   50   2048   5.132   29   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1998   50   2048   5.132   29   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1998   50   2048   5.132   29   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1998   50   2048   5.132   29   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1998   50   2048   5.132   29   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1998   50   2048   5.132   29   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1998   50   2048   5.132   29   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1998   50   2048   5.132   29   suggested for 10 year capital forceast   5.132   Nedmant   Regmant St   1998   50   2048   5.132   29   suggested for	Hydrant							, ,			
Hydrant	Hydrant					5,132	0	suggested for 10 year capital forecast			
Houtant   Rogon St   1922   50   2019   5.132   0   suggested for 10 year capital forecast   5.132   1.25	Hydrant	Redford Cres	1965	50	2019		0	suggested for 10 year capital forecast	5,132		
Hydrant   Regent St   1925   50   2019   5.132   0   suggested for 10 year capital forecast   5.132   Experiment	Hydrant	Regent St	2005	50	2055		36		-		
Hydrant   Regent St   1925   50   2019   5.132   0   suggested for 10 year capital forecast   5.132   Hydrant   Regent St   1991   50   2041   5.132   22   22   231	Hydrant										
Hydrant Regent Si 1991 50 2041 5,132 22 29 291		Ť						·			
Hydrant Regent St		<u> </u>						, ,	5,132		
Hydrant Romeo St N 1998 50 2048 5.132 29 235 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St N 1998 50 2048 5.132 29 225 Hydrant Romeo St S 2001 50 2048 5.132 29 225 Hydrant Romeo St S 2001 50 2048 5.132 29 225 Hydrant Romeo St S 2001 50 2048 5.132 30 29 225 Hydrant Romeo St S 2001 50 2048 5.132 30 20 2049 25 Hydrant Romeo St S 1997 50 2025 5.132 6 suggested for 10 year capital forecast 5.132 Hydrant Romeo St S 1998 50 2049 5.132 30 222 20 Hydrant Romeo St S 1998 50 2049 5.132 30 222 20 Hydrant Romeo St S 1998 50 2049 5.132 30 222 20 Hydrant Romeo St S 1998 50 2049 5.132 30 22 20 Hydrant Romeo St S 1998 50 2049 5.132 30 suggested for 10 year capital forecast 5.132 Hydrant Romeo St S 1998 50 2049 5.132 30 suggested for 10 year capital forecast 5.132 Hydrant Romeo St S 1998 50 2043 5.132 24 Hydrant Romeo St S 1998 50 2043 5.132 24 Hydrant Romeo St S 1998 50 2043 5.132 30 suggested for 10 year capital forecast 5.132 Hydrant Romeo St S 1998 50 2043 5.132 30 suggested for 10 year capital forecast 5.132 Hydrant Romeo St S 1998 50 2049 5.132 30 suggested for 10 year capital forecast 5.132 Hydrant Romeo St S 1998 50 2049 5.132 37 suggested for 10 year capital forecast 5.132 Hydrant Romeo St S 1998 50 2066 5.132 37 suggested for 10 year capital forecast 5.132 Hydrant Shakespeare St 1998 50 2068 5.13	Hydrant								-		
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Hydrant Romeo St N	Hydrant	Romeo St N	1998						-		
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Hydrant Romeo St S	Hydrant					5,132		235	-		
Hydrant Romeo St S 1995 50 2025 5,132 6 suggested for 10 year capital forecast 5,132 Hydrant Romeo St S 1999 50 2049 5,132 30 suggested for 10 year capital forecast 5,132 Hydrant Romeo St S 1998 50 2043 5,132 0 suggested for 10 year capital forecast 5,132 Hydrant Romeo St S 1993 50 2043 5,132 24 271 -  Hydrant Romeo St S 1993 50 2043 5,132 24 271 -  Hydrant Romeo St S 1993 50 2043 5,132 24 271 -  Hydrant Romeo St S 1993 50 2043 5,132 24 271 -  Hydrant Romeo St S 1993 50 2043 5,132 24 271 -  Hydrant Romeo St S 1993 50 2043 5,132 24 271 -  Hydrant Romeo St S 1993 50 2043 5,132 24 271 -  Hydrant Romeo St S 1993 50 2043 5,132 24 271 -  Hydrant Romeo St S 1998 50 2043 5,132 24 271 -  Hydrant Romeo St S 1998 50 2043 5,132 0 suggested for 10 year capital forecast 5,132 194 194 194 194 194 194 194 194 194 194	Hydrant	Romeo St N	1998	50	2048		29		-		
Hydrant Romeo St S 1999 50 2049 5,132 30 suggested for 10 year capital forecast 5,132 Hydrant Romeo St S 1993 50 2043 5,132 24 271 - Hydrant Romeo St S 1993 50 2043 5,132 24 271 - Hydrant Romeo St S 1993 50 2043 5,132 24 271 - Hydrant Romeo St S 1993 50 2043 5,132 24 271 - Hydrant Romeo St S 1993 50 2043 5,132 24 271 - Hydrant Romeo St S 1993 50 2043 5,132 24 271 - Hydrant Romeo St S 1993 50 2043 5,132 24 271 - Hydrant Romeo St S 1993 50 2043 5,132 24 271 - Hydrant Romeo St S 1998 50 2043 5,132 24 271 - Hydrant Romeo St S 1998 50 2043 5,132 0 suggested for 10 year capital forecast 5,132 44 271 - Hydrant Romeo St S 1968 50 2019 5,132 0 suggested for 10 year capital forecast 5,132 44 271 - Hydrant Romeo St S 1921 50 2019 5,132 0 suggested for 10 year capital forecast 5,132 44 271 - Hydrant Rutherford Dr 2006 50 2056 5,132 37 198 - Hydrant Rutherford Dr 2006 50 2056 5,132 37 198 - Hydrant Rutherford Dr 2006 50 2056 5,132 37 198 - Hydrant Rutherford Dr 2006 50 2056 5,132 37 198 - Hydrant Rutherford Dr 2006 50 2056 5,132 37 198 - Hydrant Sargint St 1976 50 2026 5,132 37 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 47 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 44 176 5 2026 5,132 7 suggested for 10 year capital forecast 5,132 5	Hydrant								-		
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Hydrant Romeo St S									5 132		
Hydrant Romeo St S	Hydrant							, ,	-		
Hydrant   Romeo St S   1993   50   2043   5.132   24   271   -	Hydrant	Romeo St S	1993	50	2043	5,132	24	271	-		
Hydrant   Romeo St S   1968   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Hydrant   Romeo St S   1968   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Hydrant   Romeo St S   1921   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Hydrant   Rutherford Dr   2006   50   2056   5,132   37   198   -	Hydrant			50					-		
Hydrant Romeo St S 1968 50 2019 5,132 0 suggested for 10 year capital forecast 5,132 Hydrant Romeo St S 1921 50 2019 5,132 0 suggested for 10 year capital forecast 5,132 Hydrant Rutherford Dr 2006 50 2056 5,132 37 198 - Hydrant Rutherford Dr 2006 50 2056 5,132 37 198 - Hydrant Rutherford Dr 2006 50 2056 5,132 37 198 - Hydrant Rutherford Dr 2006 50 2056 5,132 37 198 - Hydrant Sargint St 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 Hydrant Scott St 1976 50 2026 5,132 7 suggested for 10 year capital forecast 5,132 Hydrant Shakespeare St 2013 50 2063 5,132 7 suggested for 10 year capital forecast 5,132 Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Sircor St 1987 50 2037 5,132 18 342 - Hydrant Sircor St 1987 50 2037 5,132 18 342 - Hydrant Sircor St 1984 50 2019 5,132 0 suggested for 10 year capital forecast 5,132 Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5	Hydrant										
Hydrant   Romeo St S   1921   50   2019   5,132   0   suggested for 10 year capital forecast   5,132   Hydrant   Rutherford Dr   2006   50   2056   5,132   37   198   -											
Hydrant   Rutherford Dr   2006   50   2056   5,132   37   198											
Hydrant   Rutherford Dr   2006   50   2056   5,132   37   198	Hydrant							·	-		
Hydrant         Sargint St         1976         50         2026         5,132         7         suggested for 10 year capital forecast         5,132           Hydrant         Scott St         1976         50         2026         5,132         7         suggested for 10 year capital forecast         5,132           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         1930         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2037         5,132	Hydrant	Rutherford Dr	2006	50	2056		37	198	-		
Hydrant         Scott St         1976         50         2026         5,132         7         suggested for 10 year capital forecast         5,132           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         1930         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2037         5,132         18         342 </td <td>Hydrant</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>	Hydrant								-		
Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         1930         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         18         342         -           Hydrant         Sir Adam Beck Rd         2004         50         2019         5,132         35         205         - <td>Hydrant</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Hydrant										
Hydrant Shakespeare St 1930 50 2019 5,132 0 suggested for 10 year capital forecast 5,132 Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Shakespeare St 2013 50 2063 5,132 44 1776 - Hydrant Sharman St 1987 50 2037 5,132 18 342 - Hydrant Silcox PI 1987 50 2037 5,132 18 342 - Hydrant Simcoe St 1964 50 2019 5,132 0 suggested for 10 year capital forecast 5,132 Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 - Hydrant Sir Adam Beck Rd 2004 50 2054 5,132 35 205 -		†					<u> </u>	, ,	5,132		
Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Sharman St         1987         50         2037         5,132         18         342         -           Hydrant         Silcox PI         1987         50         2037         5,132         18         342         -           Hydrant         Simcoe St         1964         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -      <									- 5 132		
Hydrant         Shakespeare St         2013         50         2063         5,132         44         176         -           Hydrant         Sharman St         1987         50         2037         5,132         18         342         -           Hydrant         Silcox PI         1987         50         2037         5,132         18         342         -           Hydrant         Simcoe St         1964         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -	Hydrant						_	, ,			
Hydrant         Silcox PI         1987         50         2037         5,132         18         342         -           Hydrant         Simcoe St         1964         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -     <	Hydrant							176			
Hydrant         Simcoe St         1964         50         2019         5,132         0         suggested for 10 year capital forecast         5,132           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -	Hydrant								-		
Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -	Hydrant								-		
Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -	Hydrant							, ,	5,132		
Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -	Hydrant								-		
Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -           Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -											
Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -	Hydrant										
Hydrant         Sir Adam Beck Rd         2004         50         2054         5,132         35         205         -	Hydrant								-		
	Hydrant	Sir Adam Beck Rd	2004	50	2054	5,132	35	205	-		



Hydrants										
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast		
Hydrant	Sir Adam Beck Rd	2004	50	2054	5,132	35	205	-		
Hydrant	Sir Adam Beck Rd	2004	50	2054	5,132	35	205	-		
Hydrant	Somerset St	1952	50	2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Somerset St Sprung Ct	1953 2003	50 50	2019 2053	5,132	34	209	5,132		
Hydrant	Sprung Ct	1987	50	2037	5,132	18	342	-		
Hydrant	St. Andrew St	2015	50	2065	5,132	46	172	-		
Hydrant	St. Andrew St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	St. David St	1987	50	2037	5,132 5,132	18	342 241	-		
Hydrant Hydrant	St. David St St. David St	1997 1979	50 50	2047 2029	5,132	28 10	suggested for 10 year capital forecast	5,132		
Hydrant	St. David St	1979	50	2029	5,132	10	suggested for 10 year capital forecast	5,132		
Hydrant	St. David St	1979	50	2029	5,132	10	suggested for 10 year capital forecast	5,132		
Hydrant	St. David St	1979	50	2029	5,132	10	suggested for 10 year capital forecast	5,132		
Hydrant	St. Patrick St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	St. Patrick St	2005	50	2055	5,132 5,132	36	201 185	-		
Hydrant Hydrant	St. Patrick St St. Patrick St	2010 1931	50 50	2060 2019	5,132	41 0	suggested for 10 year capital forecast	5,132		
Hydrant	St. Patrick St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	St. Patrick St	1939	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	St. Vincent St N	1992	50	2042	5,132	23	281	-		
Hydrant	St. Vincent St S	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	St. Vincent St S St. Vincent St S	1999 1965	50 50	2049 2019	5,132 5,132	30	229 suggested for 10 year capital forecast	5,132		
Hydrant	St. Vincent St S	1965	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	St. Vincent St S	1959	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	St. Vincent St S	1954	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	St. Vincent St S	1991	50	2041	5,132	22	291	-		
Hydrant	St. Vincent St S	1920	50	2019	5,132 5,132	0	suggested for 10 year capital forecast 248	5,132		
Hydrant Hydrant	St. Vincent St S St. Vincent St S	1996 1996	50 50	2046 2046	5,132	27 27	248	-		
Hydrant	Strachan St	1931	50	2040	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Strachan St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Strachan St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Strachan St	2014	50	2064	5,132	45	174	-		
Hydrant	Strachan St	2014	50	2064	5,132	45	174	-		
Hydrant Hydrant	Strachan St Stratford St	1955 1915	50 50	2019 2019	5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Sutter St	1988	50	2019	5,132	19	327			
Hydrant	Taylor St	1964	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Taylor St	1921	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Taylor St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Thomas St	2010	50	2060	5,132 5,132	41	185			
Hydrant Hydrant	Tweedsmuir Pl Vanevery Way	1968 2004	50 50	2019 2054	5,132	35	suggested for 10 year capital forecast 205	5,132		
Hydrant	Vanevery Way	2004	50	2054	5,132	35	205	-		
Hydrant	Vanevery Way	2004	50	2054	5,132	35	205	-		
Hydrant	Vanevery Way	2004	50	2054	5,132	35	205	-		
Hydrant	Victoria St	1989	50	2039	5,132	20	314	-		
Hydrant	Viola Ct	1958 1999	50 50	2019 2049	5,132 5,132	30	suggested for 10 year capital forecast 229	5,132		
Hydrant Hydrant	Vivian Line 37 Vivian Line 37	2006	50	2049	5,132	37	198	-		
Hydrant	Vivian Line 37	2006	50	2056	5,132	37	198	-		
Hydrant	Vivian Line 37	2006	50	2056	5,132	37	198	-		
Hydrant	Vivian Line 37	2006	50	2056	5,132	37	198	-		
Hydrant	Waddell St	1987	50	2037	5,132 5,132	18	342 suggested for 10 year capital forecast			
Hydrant Hydrant	Waddell St Waddell St	1952 1952	50 50	2019 2019	5,132	0	suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Walsh Cres	1996	50	2019	5,132	27	248	J, 13Z		
Hydrant	Walsh Cres	1996	50	2046	5,132	27	248	-		
Hydrant	Warwick Rd	1953	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Warwick Rd	1953	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Water St	1976	50	2026	5,132	7	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Water St Water St	1924 1977	50 50	2019 2027	5,132 5,132	0 8	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Water St	1977	50	2027	5,132	15	399	5,132		
Hydrant	Waterloo St N	2005	50	2055	5,132	36	201	-		
Hydrant	Waterloo St N	2006	50	2056	5,132	37	198	-		
Hydrant	Waterloo St S	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Waterloo St S	1989	50	2039	5,132	20	314	-		
Hydrant	Waterloo St S	1996	50		5,132 5,132	1	248 248	-		
Hydrant Hydrant	Waterloo St S Well St	1996 1920	50 50		5,132	27 0	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Wellington St	2006	50		5,132	37	198	5, I3Z -		
Hydrant	Wellington St	2006	50		5,132	37	198	-		
-	<del>`</del>				•	-				



Hydrants Hydrants										
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacemen t Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast		
Hydrant	Wellington St	1979	50	2029	5,132	10	suggested for 10 year capital forecast	5,132		
Hydrant	Wellington St	1985	50		5,132	16	378	-		
Hydrant	West Gore St West Gore St	1931 1931	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132		
Hydrant Hydrant	West Gore St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	West Gore St	1964	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	West Gore St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	West Gore St	1931	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	West Gore St	2007	50		5,132	38	194	-		
Hydrant	West Gore St	1931	50		5,132 5,132	0	suggested for 10 year capital forecast 209	5,132		
Hydrant Hydrant	West Gore St West Gore St	2003	50 50		5,132	34 34	209	-		
Hydrant	West Gore St	2003	50		5,132	34	209	-		
Hydrant	West Gore St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	White St	1977	50	2027	5,132	8	suggested for 10 year capital forecast	5,132		
Hydrant	Whitelock St	1976	50		5,132	7	suggested for 10 year capital forecast	5,132		
Hydrant	Whitelock St	1923	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Whyte Ave Whyte Ave	1922 1922	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132		
Hydrant	William St	2006	50		5,132	37	198	- 5,132		
Hydrant	William St	2006	50		5,132	37	198	-		
Hydrant	William St	2003	50		5,132	34	209	-		
Hydrant	William St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	William St	1931	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	William St William St	1931 1956	50 50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132		
Hydrant Hydrant	William St	2010	50		5,132	41	185	- 5,132		
Hydrant	William St	2010	50		5,132	41	185	-		
Hydrant	Willow St	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Willow St	1968	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Willow St	1996	50	2046	5,132	27	248	-		
Hydrant	Willow St	1968	50		5,132 5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Willow St Willow St	1956 1956	50 50		5,132	0	suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Wilson Ct	1966	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Windemere Cres	1966	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Windemere Cres	1966	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Windemere Cres	1966	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant Hydrant	Windemere Cres	1966 1999	50 50		5,132 5,132	30	suggested for 10 year capital forecast 229	5,132		
Hydrant	Wingfield Ave Woods St	1956	50		5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Woods St	1953	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Woods St	1953	50	2019	5,132	0	suggested for 10 year capital forecast	5,132		
Hydrant	Woods St	1987	50		5,132	18	342	-		
Hydrant	Woods St	1987	50		5,132	18	342			
Hydrant	Worslay St	1976	50		5,132 5,132	7	suggested for 10 year capital forecast 201	5,132		
Hydrant Hydrant	Worsley St Worsley St	2005 2005	50 50		5,132	36 36	201	-		
Hydrant	Wright Blvd	1989	50		5,132	20	314	-		
Hydrant	Wright Blvd	1989	50		5,132	20	314	-		
Hydrant	Wright Blvd	1989	50		5,132	20	314	-		
Hydrant	Wright Blvd	1989	50		5,132	20	314	-		
Hydrant Hydrant	Wright Blvd Wright Blvd	1989 1989	50 50		5,132 5,132	20 20	314 314	-		
Hydrant Hydrant	Wright Blvd	1989	50		5,132	28	241	-		
Hydrant	Wright Blvd	1997	50		5,132	28	241	-		
Hydrant	Wright Blvd	2009	50		5,132	40	188	-		
Hydrant	Wright Blvd	2009	50		5,132	40	188	-		
Hydrant	Wright Blvd	2009	50		5,132	40	188	-		
Hydrant Hydrant	Wright Blvd Wright Blvd	2009	50 50		5,132 5,132	40 40	188 188	-		
Hydrant Hydrant	Wright Blvd	2009	50		5,132	40	188	-		
Hydrant	Wright Blvd	2009	50		5,132	40	188	-		
Hydrant	Wright Blvd	2009	50		5,132	40	188	-		
Hydrant	Wright Blvd	2009	50		5,132	40	188	-		
Hydrant	Wyatt St	1976	50		5,132	7	suggested for 10 year capital forecast	5,132		
Hydrant	York St	1992	50		5,132 5,132	23	281	- E 400		
Hydrant Hydrant	Youngs St Youngs St	1920 1920	50 50		5,132	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	5,132 5,132		
Hydrant	Youngs St	2012	50		5,132	43	179	-		
Hydrant	Youngs St	2012	50		5,132	43	179	-		
Total					5,378,336		110,480	3,007,352		



			Valves,	Valve Chamber	s, and Curb Stop	os I		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	-
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	-
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	-
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	-
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	-
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	-
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	
Curb Stop	Abraham Dr	2002	35		63	18	4	
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	<b>†</b>
Curb Stop	Abraham Dr	2002	35		63	18	4	<del> </del>
Curb Stop	Abraham Dr	2002	35		63	18	4	
Curb Stop	Abraham Dr	2002	35		63	18	4	
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	-
Curb Stop	Abraham Dr	2002	35		63	18	4	
Curb Stop	Abraham Dr	2002	35		63	18	4	
Curb Stop	Abraham Dr	2002	35		63	18	4	
Curb Stop	Abraham Dr	2002	35	2037	63	18	4	
Curb Stop	Abraham Dr	2002	35		63	18	4	
Curb Stop	Abraham Dr	2002	35	2037	63 63	18	4	1
Curb Stop	Abraham Dr	2002	35		63	18	4	
Curb Stop	Abraham Dr	2002	35		63	18	4	
Curb Stop	Access Road	2007	35		63	23	3	1
Curb Stop	Arden Pk	2000	35		63	16	5	
Curb Stop	Arden Pk	2000	35	2035	63	16	5	i e
Curb Stop	Arden Pk	2000	35	2035	63	16 16	5	
Curb Stop	Arden Pk	2000	35	2035	63	16	5	1
Curb Stop	Arden Pk Arden Pk	2000 2000	35 35	2035 2035	63	16	5 5	1
Curb Stop	Arden Pk	2000	35		63	16	5	1
Curb Stop Curb Stop	Arden Pk	2000	35	2035	63	16	5	
Curb Stop	Arden Pk	2000	35	2035	63	16	5	
Curb Stop	Arden Pk	2000	35	2035	63	16	5	
Curb Stop	Arden Pk	2000	35	2035	63	16	5	
Curb Stop	Arden Pk	2000	35		63	16	5	
Curb Stop	Arden Pk	2000	35		63	16	5	
Curb Stop	Arden Pk	2000	35		63	16	5	1
Curb Stop	Avondale Ave	1932	35		63	0	suggested for 10 year capital forecast	
Curb Stop	Avondale Ave	1932	35		63	0	suggested for 10 year capital forecast	ĺ
Curb Stop	Avondale Ave	1932	35		63	0	suggested for 10 year capital forecast	
Curb Stop	Avondale Ave	1932	35		63	0	suggested for 10 year capital forecast	63
Curb Stop	Avondale Ave	2007	35		63	23	3	
Curb Stop	Avondale Ave	2007	35		63	23	3	
Curb Stop	Avondale Ave	2007	35		63	23	3	
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	
Curb Stop	Bell Ct	1993	35	2028	63	9	suggested for 10 year capital forecast	
Curb Stop	Bell Ct	1993	35	2028	63	9	suggested for 10 year capital forecast	
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	1
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	1
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	
Curb Stop	Bell Ct	1993	35		63	9	suggested for 10 year capital forecast	
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			Valves,	Valve Chamber	rs, and Curb Sto	ps		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Bell Ct	1993	35	2028	63	9	suggested for 10 year capital forecast	63
Curb Stop	Bell Ct	1993	35	2028	63 63	9	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Bell Ct Bell Ct	1993 1993	35 35	2028 2028	63	9	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Bell Ct	1993	35	2028	63	9	suggested for 10 year capital forecast	63
Curb Stop	Bell Ct	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Bell Ct	2000	35 35	2035 2035	63 63	16 16	5	-
Curb Stop	Bell Ct	2000	35	2035	63	16	5	-
Curb Stop	Bell Ct	2000	35	2035	63	16	5	-
Curb Stop	Bell Ct	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Bell Ct Bell Ct	2000	35 35	2035 2035	63 63	16 16	5	-
Curb Stop	Bell Ct	2000	35	2035	63	16	5	-
Curb Stop	Bell Ct	2000	35	2035	63	16	5	-
Curb Stop	Bell Ct	2000	35	2035	63 63	16	5	-
Curb Stop Curb Stop	Bell Ct Bell Ct	2000	35 35	2035 2035	63	16 16	5	-
Curb Stop	Bell Ct	2000	35	2035	63	16	5	-
Curb Stop	Birmingham St	2005	35	2040	63	21	4	-
Curb Stop Curb Stop	Birmingham St Birmingham St	2005 2005	35 35	2040 2040	63 63	21 21	4	-
Curb Stop Curb Stop	Birmingham St	2005	35	2040	63	21	4	-
Curb Stop	Bormingham St	2005	35	2040	63	21	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop Curb Stop	Britannia St Britannia St	2003	35 35	2038 2038	63 63	19 19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop Curb Stop	Britannia St Britannia St	2003	35 35		63 63	19 19	4	-
Curb Stop	Britannia St	2003	35		63	19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop	Britannia St	2003	35	2038	63 63	19	4	-
Curb Stop Curb Stop	Britannia St  Britannia St	2003	35 35		63	19 19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop	Britannia St	2003	35		63	19	4	-
Curb Stop Curb Stop	Britannia St  Britannia St	2003	35 35		63 63	19 19	4	-
Curb Stop	Britannia St	2003	35		63	19	4	-
Curb Stop	Britannia St	2003	35		63	19	4	-
Curb Stop	Britannia St	2003	35	2038	63 63	19	4	-
Curb Stop Curb Stop	Britannia St Britannia St	2003 2003	35 35		63	19 19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop	Britannia St	2003	35		63	19	4	-
Curb Stop	Britannia St Britannia St	2003	35 35	2038 2038	63 63	19 19	4	-
Curb Stop Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop Curb Stop	Britannia St  Britannia St	2003	35 35	2038 2038	63 63	19 19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop	Britannia St	2003	35	2038	63	19	4	-
Curb Stop Curb Stop	Britannia St Britannia St	2003 2003	35 35		63 63	19 19	4	-
Curb Stop  Curb Stop	Bruce St	1961	35	2038	63	0	suggested for 10 year capital forecast	63
Curb Stop	Bruce St	1961	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Bruce St	1961	35		63	0	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Brydges St Brydges St	1948 1948	35 35		63 63	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Brydges St	1953	35		63	0	suggested for 10 year capital forecast	63
Curb Stop	Brydges St	1965	35		63	0	suggested for 10 year capital forecast	63
Curb Stop	Buckingham Dr	2000	35		63 63	16	5	-
Curb Stop Curb Stop	Buckingham Dr Buckingham Dr	2000	35 35		63	16 16	5	-
Curb Stop	Buckingham Dr	2000	35		63	16	5	-
Curb Stop	Cedarbrae Dr	1986	35		63	2	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Cedarbrae Dr Cedarbrae Dr	1986	35 35		63 63	2 2	suggested for 10 year capital forecast suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Cedarbrae Dr Cedarbrae Dr	1986 1991	35		63	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
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			Valves,	Valve Chamber	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Cedarbrae Dr	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop	Cedarbrae Dr	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Cedarbrae Dr Cedarbrae Dr	1991 1991	35 35	2026 2026	63	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Cedarbrae Dr	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop	Cedarbrae Dr	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop	Cedarbrae Dr	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop	Cedarbrae Dr	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop	Cedarbrae Dr Cedarbrae Dr	1991 1991	35 35	2026 2026	63 63	7	suggested for 10 year capital forecast	63 63
Curb Stop Curb Stop	Cedarbrae Dr	1991	35	2026	63	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	63
Curb Stop	Charles St	1947	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Charles St	1947	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Charles St	1947	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Charles St	2007	35	2042	63	23	3	-
Curb Stop Curb Stop	Cooper St Coriano St	2006 1946	35 35	2041 2019	63 63	22 0	suggested for 10 year capital forecast	- 63
Curb Stop	Coriano St	1946	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Coriano St	1946	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Coriano St	1946	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Coriano St	1946	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Coriano St Coriano St	1946 1946	35 35	2019 2019	63 63	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Coriano St	1946	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Coriano St	1946	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Coriano St	1946	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Coriano St	1946	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Coriano St	1946	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Coriano St Coriano St	1946 1946	35 35	2019 2019	63	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Crane Ave	1961	35		63	0	suggested for 10 year capital forecast	63
Curb Stop	Crawford St	1991	35		63	7	suggested for 10 year capital forecast	63
Curb Stop	Crawford St	1991	35		63	7	suggested for 10 year capital forecast	63
Curb Stop	Crawford St	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Curb Stop -351000001 Curb Stop -351000027	1989 2006	35 35	2024 2041	63 63	5 22	suggested for 10 year capital forecast	63
Curb Stop	Curb Stop -351000027	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000040	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000041	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000042	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000043	2006	35	2041 2040	63 63	22 21	4	-
Curb Stop Curb Stop	Curb Stop -351000044 Curb Stop -351000045	2005 2005	35 35	2040	63	21	4	-
Curb Stop	Curb Stop -351000046	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000047	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000048	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000049	2005	35	2040	63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000054 Curb Stop -351000055	2006 2006	35 35	2041 2041	63 63	22 22	4	-
Curb Stop	Curb Stop -351000056	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000057	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000058	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000059	2006	35	2041	63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000060 Curb Stop -351000061	2006 2006	35 35	2041	63 63	22 22	4	-
Curb Stop Curb Stop	Curb Stop -351000061 Curb Stop -351000062	2006	35	2041	63	22	<u>4</u>	-
Curb Stop	Curb Stop -351000063	2006	35	2041	63	22	4	
Curb Stop	Curb Stop -351000064	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000065	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000071	2006	35	2041	63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000072 Curb Stop -351000073	2006 2006	35 35	2041 2041	63 63	22 22	4	-
Curb Stop	Curb Stop -351000073	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000075	2006	35	2041	63	22	4	
Curb Stop	Curb Stop -351000076	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000077	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000078	2006	35		63 63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000079 Curb Stop -351000080	2006 2006	35 35	2041 2041	63	22 22	4	-
Curb Stop	Curb Stop -351000080	2006	35		63	22	4	-
Curb Stop	Curb Stop -351000082	2006	35		63	22	4	-
Curb Stop	Curb Stop -351000083	2006	35		63	22	4	-
Curb Stop	Curb Stop -351000084	2006	35		63	22	4	-
Curb Stop	Curb Stop -351000085	2006	35 35		63 63	22	4	-
Curb Stop	Curb Stop -351000086	2006	35	2041	63	22	4	-



			Valves,	Valve Chambe	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Curb Stop -351000087	2006	35	2041	63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000088 Curb Stop -351000089	2006 2005	35 35	2041 2040	63 63	22 21	4	-
Curb Stop	Curb Stop -351000099	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000091	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000092	2005	35	2040	63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000093 Curb Stop -351000094	2005 2005	35 35	2040 2040	63 63	21 21	4	-
Curb Stop	Curb Stop -351000095	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000096	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000097	2005	35	2040	63 63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000098 Curb Stop -351000099	2005 2005	35 35	2040 2040	63	21 21	4	-
Curb Stop	Curb Stop -351000100	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000101	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000102	2005	35	2040	63 63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000103 Curb Stop -351000104	2005 2005	35 35	2040 2040	63	21 21	4	-
Curb Stop	Curb Stop -351000105	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000106	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000107	2005 2005	35 35	2040 2040	63 63	21 21	4	-
Curb Stop Curb Stop	Curb Stop -351000108 Curb Stop -351000109	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000110	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000111	2005	35	2040	63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000112 Curb Stop -351000113	2005 2005	35 35	2040 2040	63 63	21 21	4	-
Curb Stop	Curb Stop -351000113	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000115	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000116	2005	35	2040	63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000117 Curb Stop -351000118	2005 2005	35 35	2040 2040	63 63	21 21	4	-
Curb Stop	Curb Stop -351000119	2005	35		63	21	4	-
Curb Stop	Curb Stop -351000120	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000121	2005	35	2040	63 63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000122 Curb Stop -351000123	2005 2005	35 35	2040 2040	63	21 21	4	-
Curb Stop	Curb Stop -351000124	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000125	2005	35	2040	63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000126 Curb Stop -351000127	2005 2005	35 35	2040 2040	63 63	21 21	4	-
Curb Stop	Curb Stop -351000127	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000129	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000130	2005	35	2040	63 63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000131 Curb Stop -351000132	2005 2005	35 35	2040 2040	63	21 21	4	<u> </u>
Curb Stop	Curb Stop -351000133	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000252	2006	35		63	22	4	-
Curb Stop	Curb Stop -351000253	2006 2006	35 35	2041 2041	63 63	22 22	4	-
Curb Stop Curb Stop	Curb Stop -351000254 Curb Stop -351000255	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000256	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000257	2006	35	2041	63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000258 Curb Stop -351000259	2006 2006	35 35	2041 2041	63 63	22 22	4	-
Curb Stop	Curb Stop -351000259	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000261	2006	35	2041	63	22	4	_
Curb Stop	Curb Stop -351000262	2006	35	2041	63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000263 Curb Stop -351000264	2006 2006	35 35	2041 2041	63 63	22 22	4	-
Curb Stop  Curb Stop	Curb Stop -351000264  Curb Stop -351000265	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000266	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000267	2006	35		63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000268 Curb Stop -351000269	2006 2006	35 35		63 63	22 22	<u>4</u> Λ	-
Curb Stop	Curb Stop -351000270	2006	35		63	22	4	
Curb Stop	Curb Stop -351000271	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000272	2006	35		63 63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000273 Curb Stop -351000274	2006 2006	35 35	2041 2041	63	22 22	4	-
Curb Stop	Curb Stop -351000274	2006	35		63	22	4	-
Curb Stop	Curb Stop -351000276	2006	35		63	22	4	-
Curb Stop	Curb Stop -351000277	2006	35 35		63 63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000278 Curb Stop -351000279	2006 2006	35 35		63	22 22	4	-
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			Valves,	Valve Chambe	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Curb Stop -351000280	2006	35	2041	63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000281 Curb Stop -351000282	2006 2006	35 35	2041 2041	63 63	22 22	4	-
Curb Stop	Curb Stop -351000282	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000284	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000285	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000286	2006	35	2041	63 63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000287 Curb Stop -351000288	2006 2006	35 35	2041 2041	63	22 22	4	-
Curb Stop	Curb Stop -351000289	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000290	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000291	2006	35	2041	63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000292 Curb Stop -351000293	2006 2006	35 35	2041 2041	63 63	22 22	4	-
Curb Stop	Curb Stop -351000294	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000295	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000296	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000297	2006	35	2041	63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000298 Curb Stop -351000299	2006 2006	35 35	2041 2041	63 63	22 22	4	-
Curb Stop	Curb Stop -351000233	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000301	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000302	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000303	2006	35	2041	63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000304 Curb Stop -351000305	2006 2006	35 35	2041 2041	63 63	22 22	4	-
Curb Stop	Curb Stop -351000306	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000307	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000308	2006	35	2041	63	22	4	-
Curb Stop	Curb Stop -351000309	2006	35	2041	63	22	4	-
Curb Stop Curb Stop	Curb Stop -351000312 Curb Stop -351000313	2006 2005	35 35	2041 2040	63 63	22 21	4	-
Curb Stop	Curb Stop -351000314	2005	35		63	21	4	-
Curb Stop	Curb Stop -351000315	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000316	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000317	2005	35	2040	63 63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000318 Curb Stop -351000319	2005 2005	35 35	2040 2040	63	21 21	4	-
Curb Stop	Curb Stop -351000313	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000321	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000322	2005	35	2040	63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000323 Curb Stop -351000324	2005 2005	35 35	2040 2040	63 63	21 21	4	-
Curb Stop	Curb Stop -351000325	2005	35	2040	63	21	4	
Curb Stop	Curb Stop -351000326	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000327	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000328	2005	35	2040	63	21	4	-
Curb Stop Curb Stop	Curb Stop -351000329 Curb Stop -351000330	2005 2005	35 35	2040 2040	63 63	21 21	4	-
Curb Stop	Curb Stop -351000330	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000332	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000333	2005	35	2040	63	21	4	-
Curb Stop	Curb Stop -351000334	2005	35 35	2040 2040	63 63	21 21	4	-
Curb Stop Curb Stop	Curb Stop -351000335 Curb Stop -351000336	2005 2002	35	2040	63	18	<u>4</u> Δ	-
Curb Stop	Curb Stop -351000622	2003	35	2038	63	19	4	-
Curb Stop	Curb Stop -351000647	2003	35	2038	63	19	4	-
Curb Stop	Curb Stop -351000648	2003	35	2038	63	19	4	-
Curb Stop	Curb Stop -351000649	2003 2003	35 35	2038 2038	63 63	19 19	4	-
Curb Stop Curb Stop	Curb Stop -351000650 Curb Stop -351000651	2003	35	2038	63	19	4	
Curb Stop	Curb Stop -351000676	2002	35	2037	63	18	4	-
Curb Stop	Curb Stop -351000677	2003	35		63	19	4	-
Curb Stop	Curb Stop -351000678	2003	35		63	19	4	-
Curb Stop Curb Stop	Curb Stop -351000743 Curb Stop -351001249	2003 1953	35 35		63 63	19 0	suggested for 10 year capital forecast	- 63
Curb Stop Curb Stop	Curb Stop -351001249  Curb Stop -351001444	1953	35		63	14	suggested for to year capital forecast	-
Curb Stop	Curb Stop -351001743	2004	35		63	20	4	-
Curb Stop	Curb Stop -351001753	1998	35	2033	63	14	5	-
Curb Stop	Curb Stop -351001754	1998	35		63	14	5	
Curb Stop Curb Stop	Curb Stop -351001755 Curb Stop -351002038	1998 1924	35 35		63 63	14 0	5 suggested for 10 year capital forecast	- 63
Curb Stop	Curb Stop -351002038	1924	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Curb Stop -351002040	1924	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Curb Stop -351002041	1924	35	2019	63	0	suggested for 10 year capital forecast	63



Curb Stop   Curb Stop   Curb Stop   Stop   Curb Stop   Curb Stop   Curb Stop   Curb Stop   Curb Stop   Stop   Stop   Stop   Curb Stop   Stop	capital forecast	Amount to be included in 10 year Forecast
Curb Stop	capital forecast	62
Curb Stop         Curb Stop         Curb Stop         351002141         1991         35         2026         63         7         suggested for 10 year           Curb Stop         Curb Stop         2004         35         2036         63         20           Curb Stop         Douglas S1         2000         35         2036         63         16           Curb Stop         Douglas S1         2000         35         2036         63         16           Curb Stop         Douglas S1         2000         35         2035         63         16           Curb Stop         Douglas S1         2000         35         2035         63         16           Curb Stop         Douglas S1         2000         35         2035         63         16           Curb Stop         Douglas S1         2000         35         2035         63         16           Curb Stop         Douglas S1         2000         35         2035         63         16           Curb Stop         Douglas S1         2000         35         2035         63         16           Curb Stop         Douglas S1         2000         35         2035         63         16 </td <td></td> <td></td>		
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Curb Stop Douglas St 2000 35 2005 63 16 Curb Stop Dufferin St 1992 35 2007 63 8 suggested for 10 year Curb Stop Dufferin St 1992 35 2007 63 8 suggested for 10 year Curb Stop Dufferin St 1992 35 2007 63 8 suggested for 10 year Curb Stop Dufferin St 1992 35 2007 63 8 suggested for 10 year Curb Stop Dufferin St 1992 35 2007 63	4	-
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Curb Stop	<u>5</u>	-
Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000	5	-
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Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Dufferin St         1992 <td>5</td> <td>-</td>	5	-
Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Dougles St         2000	<u>5</u>	-
Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop <th< td=""><td>5</td><td>-</td></th<>	5	-
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Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         sugges	5	-
Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63 <td><u>5</u></td> <td>-</td>	<u>5</u>	-
Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St	5	
Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop	5	-
Curb Stop         Douglas St         2000         35         2005         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8	5	
Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Douglas St         2000         35         2035         63         16           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8	<u>5</u>	
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992	5	
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992	5	-
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992	•	63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992	•	63 63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992	•	63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992		63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992		63 63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992		63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 10		63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992		63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992		63 63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop <t< td=""><td></td><td>63</td></t<>		63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year           Curb Stop         Dufferin St         1992	apital forecast	63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 3           Curb Stop <t< td=""><td>•</td><td>63</td></t<>	•	63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 10		63 63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 10		63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of suggested for		63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of suggested for		63 63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of 10		63
Curb Stop         Dufferin St         1992         35         2027         63         8         suggested for 10 year of suggested for		63
Curb Stop         Eagle Dr         1998         35         2033         63         14           Curb Stop         Eagle Dr         1998         35         2033         63         14           Curb Stop         Eagle Dr         1998         35         2033         63         14           Curb Stop         Eagle Dr         1998         35         2033         63         14		63
Curb Stop         Eagle Dr         1998         35         2033         63         14           Curb Stop         Eagle Dr         1998         35         2033         63         14	apital forecast	63
Curb Stop         Eagle Dr         1998         35         2033         63         14	5	-
Curb Stop	5	-
	5	
Curb Stop         Eagle Dr         1998         35         2033         63         14           Curb Stop         Eagle Dr         1998         35         2033         63         14	<u>5</u>	-
Curb Stop	5	
Curb Stop         Eagle Dr         1998         35         2033         63         14	5	-
Curb Stop         Eagle Dr         1998         35         2033         63         14           Curb Stop         5 and 5	5	-
Curb Stop         Easson St         2015         35         2050         63         31           Curb Stop         Easson St         2015         35         2050         63         31	3	
Curb Stop         Easson St         2015         35         2050         63         31	3	-
Curb Stop         Easson St         2015         35         2050         63         31	3	
Curb Stop         Easson St         2015         35         2050         63         31           Curb Stop         Easson St         2015         35         2050         63         31	3	
Curb Stop         Easson St         2015         35         2050         63         31           Curb Stop         Easson St         2015         35         2050         63         31	3	-
Curb Stop         Easson St         2015         35         2050         63         31	3	-
Curb Stop         Easson St         2015         35         2050         63         31	3	
Curb Stop         Easson St         2015         35         2050         63         31           Curb Stop         Easson St         2015         35         2050         63         31	3	-
Curb Stop         Easson St         2015         35         2050         63         31           Curb Stop         Easson St         2015         35         2050         63         31	3	
Curb Stop         Easson St         2015         35         2050         63         31	3	
Curb Stop         Easson St         2015         35         2050         63         31	3	
Curb Stop         Easson St         2015         35         2050         63         31           Curb Stop         Easson St         2015         35         2050         63         31	3	
Curb Stop         Easson St         2015         35         2050         63         31           Curb Stop         Easson St         2015         35         2050         63         31	3	



	Valves, Valve Char			Valve Chambe	ers, and Curb Stops			T
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Easson St	2015	35	2050	63	31	3	-
Curb Stop Curb Stop	Easson St Easson St	2015 2015	35 35	2050 2050	63 63	31 31	3	-
Curb Stop	Easson St	2015	35	2050	63	31	3	-
Curb Stop	Easson St	2015	35	2050	63	31	3	-
Curb Stop	Easson St	2015	35	2050	63	31	3	-
Curb Stop Curb Stop	Easson St Easson St	2015 2015	35 35	2050 2050	63 63	31 31	3	-
Curb Stop	Easson St	2015	35	2050	63	31	3	-
Curb Stop	Edison Cres	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop	Edison Cres	1991	35	2026	63 63	7	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Edison Cres Edison Cres	1991 1991	35 35	2026 2026	63	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Edison Cres	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63 63	11	6	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	1995 1995	35 35	2030 2030	63	11 11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop Curb Stop	Elizabeth St	1995 1995	35 35	2030 2030	63 63	11 11	6	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	1995 1995	35 35	2030 2030	63 63	11 11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	1995 1995	35 35		63 63	11 11	6	-
Curb Stop	Elizabeth St	1995	35		63	11	6	
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63 63	11	6	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	1995 1995	35 35		63	11 11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	1995 1995	35 35		63 63	11 11	6	-
Curb Stop	Elizabeth St	1995	35		63	11	6	
Curb Stop	Elizabeth St	1995	35		63	11	6	-
Curb Stop	Elizabeth St	1995	35	2030	63	11	6	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	2002	35 35		63 63	18 18	4	-
Curb Stop	Elizabeth St	2002	35	2037	63	18	4	-
Curb Stop	Elizabeth St	2002	35		63	18	4	-
Curb Stop	Elizabeth St	2002	35		63 63	18	4	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	2002	35 35	2037 2037	63	18 18	4	-
Curb Stop	Elizabeth St	2002	35	2037	63	18	4	-
Curb Stop	Elizabeth St	2002	35	2037	63	18	4	-
Curb Stop	Elizabeth St	2002	35 35	2037 2037	63 63	18 18	4	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	2002 2002	35	2037	63	18 18	4	-
Curb Stop	Elizabeth St	2002	35	2037	63	18	4	-
Curb Stop	Elizabeth St	2002	35	2037	63	18	4	-
Curb Stop	Elizabeth St	2002	35 35		63 63	18 18	4	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	2002	35	2037 2037	63	18 18	4	-
Curb Stop	Elizabeth St	2002	35	2037	63	18	4	-
Curb Stop	Elizabeth St	2002	35		63	18	4	-
Curb Stop Curb Stop	Elizabeth St Elizabeth St	2002	35 35		63 63	18 18	4	-
Curb Stop	Elizabeth St	2002	35		63	18	4	-
Curb Stop	Elizabeth St	2002	35	2037	63	18	4	-
Curb Stop	Falstaff St	1992	35		63	8	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Forman Ave Forman Ave	1970 1970	35 35		63 63	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Forman Ave	1970	35		63	0	suggested for 10 year capital forecast	63
Curb Stop	Forman Ave	1970	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Forman Ave	1970	35		63 63	0	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Forman Ave Forman Ave	1970 1970	35 35		63	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Jain Grop	i. omar Avo	1910		2013		U	suggested for 10 year capital lorecast	03



Cub Step				Valves,	Valve Chambei	rs, and Curb Stop	os		
Cure Stops	Asset	Street				Replacement		Annual Lifecycle Contribution	be included in 10 year
Cute Step	Curb Stop	Forman Ave	1970	35	2019	63	0	suggested for 10 year capital forecast	63
Curt Steps   Franchis Programme   2000   50   2000   61   61   61   62   63   64   64   64   64   64   64   64	Curb Stop	Forman Ave	1970	35	2019		0	suggested for 10 year capital forecast	63
Curb Step	Curb Stop	Forman Ave	2000	35	2035		16	5	-
Carde Steps	Curb Stop	Forman Ave	2000	35	2035		16	5	-
Code Stop           Franklin Dr.								, ,	
Cach Step   Franklin Dr   1971   30   2019   63   0   suggestated for 10 year capital forecast   50   Cach Step   Franklin Dr   2020   30   2005   63   10     suggestated for 10 year capital forecast   63   Cach Step   Franklin Dr   2020   30   2005   63   16	•							, ,	
Card Step								, ,	
Curt Step   Franklin Dr								, ,	
Curt Stop								suggested for 10 year capital forecast	63
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Cust Steps									_
Cush Store	Curb Stop					63		5	-
Curb Stoco	Curb Stop	Franklin Dr	2000		2035	63	16	5	-
Curs Stop	Curb Stop	Galt Rd	1977	35	2019	63	0	suggested for 10 year capital forecast	63
Curt Stop	Curb Stop	Galt Rd	1977	35	2019	63	0	suggested for 10 year capital forecast	63
Cust Stoco Galt Rid 1977 35 2019 63 0 suggested for 10-year capital forecast 63 Cust Store Galt Rid 1977 35 2019 63 0 suggested for 10-year capital forecast 63 Cust Store Galt Rid 1977 35 2019 63 0 suggested for 10-year capital forecast 63 Cust Store Galt Rid 1977 35 2019 63 0 suggested for 10-year capital forecast 63 Cust Store Galt Rid 1977 35 2019 63 0 suggested for 10-year capital forecast 63 Cust Store Galt Rid 1987 35 2019 63 0 suggested for 10-year capital forecast 63 Cust Store Galt Rid 1987 35 2019 63 0 suggested for 10-year capital forecast 63 Cust Store Galt Rid 1987 35 2022 63 3 suggested for 10-year capital forecast 63 Cust Store Garnerel Cl 1993 35 2022 63 3 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2022 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2023 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2023 63 0 suggested for 10-year capital forecast 63 Cust Store General Cl 1993 35 2023 63 0 suggested for 10-year capital forecast 63 Cust Store	Curb Stop	Galt Rd	1977	35	2019	63	0	suggested for 10 year capital forecast	63
Cush Stops Galf Ed 1977 35 2019 300 3019 63 0 3 susgement for 10 years capital forecasts 63 Cush Stops Galf Ed 1977 35 2019 300 3019 63 0 43 susgement for 10 years capital forecasts 63 Cush Stops Galf Ed 1987 35 2019 30 2019 30 30 3019 63 0 43 susgement for 10 years capital forecasts 63 Cush Stops Galf Ed 1987 35 2012 40 30 30 30 30 30 30 30 30 30 30 30 30 30	Curb Stop	Galt Rd	1977	35	2019		0	suggested for 10 year capital forecast	63
Cush Storp	Curb Stop	Galt Rd							
Curb Storo	Curb Stop	Galt Rd			2019		0	suggested for 10 year capital forecast	
Curb Stora   Salt Rid   1977   35   2019   64   0   supposed for 10 year capital broaders   102	Curb Stop	Galt Rd						suggested for 10 year capital forecast	
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Curb Stop         Genmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Genmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Genmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Genmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Genmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Genmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Genmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Genmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63 <th< td=""><td>Curb Stop</td><td>Gemmell Ct</td><td>1993</td><td>35</td><td>2028</td><td>63</td><td>9</td><td></td><td>63</td></th<>	Curb Stop	Gemmell Ct	1993	35	2028	63	9		63
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Curb Stop         Germmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Germmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Germmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Germmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Germmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Germmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         George St W         2004         35         2039         63         20         4         -           Curb Stop         George St W         2004         35         2039         63         20         4         -           Curb Stop         Grant St         2003	Curb Stop	Gemmell Ct	1993	35	2028	63	9	suggested for 10 year capital forecast	63
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Curb Stop         Gemmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Gemmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Gemmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         George St W         2004         35         2029         63         9         suggested for 10 year capital forecast         63           Curb Stop         George St W         2004         35         2039         63         20         4         -           Curb Stop         George St W         2004         35         2039         63         20         4         -           Curb Stop         George St W         2004         35         2039         63         20         4         -           Curb Stop         George St W         2004         35         2039         63         20         4         -           Curb Stop         Grant St         2003         35         2038         63         19 <td>Curb Stop</td> <td>Gemmell Ct</td> <td>1993</td> <td>35</td> <td>2028</td> <td></td> <td>9</td> <td></td> <td>63</td>	Curb Stop	Gemmell Ct	1993	35	2028		9		63
Curb Stop         Gemmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         Gemmell Ct         1993         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         George St W         2004         35         2028         63         9         suggested for 10 year capital forecast         63           Curb Stop         George St W         2004         35         2039         63         20         4         -           Curb Stop         George St W         2004         35         2039         63         20         4         -           Curb Stop         George St W         2004         35         2039         63         20         4         -           Curb Stop         George St W         2004         35         2039         63         20         4         -           Curb Stop         Grant St         2003         35         2038         63         19         4         -           Curb Stop         Grant St         2003         35         2038         63         19         4         - <td>Curb Stop</td> <td>Gemmell Ct</td> <td>1993</td> <td>35</td> <td>2028</td> <td></td> <td>9</td> <td>suggested for 10 year capital forecast</td> <td>63</td>	Curb Stop	Gemmell Ct	1993	35	2028		9	suggested for 10 year capital forecast	63
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Curb Stop         Grant St         2003         35         2038         63         19         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         20								4	_
Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         20	•					63		4	_
Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         20	Curb Stop					63		4	-
Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         20	Curb Stop	Grant St			2041	63		4	-
Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Gregory Cres         2001         35 <t< td=""><td>Curb Stop</td><td>Grant St</td><td>2006</td><td>35</td><td>2041</td><td>63</td><td>22</td><td>4</td><td>-</td></t<>	Curb Stop	Grant St	2006	35	2041	63	22	4	-
Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Grant St 2006 35 2041 63 22 4 -  Curb Stop Gregory Cres 2001 35 2036 63 17 4 -  Curb Stop Gregory Cres	Curb Stop	Grant St	2006	35	2041	63	22	4	-
Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35 <td>Curb Stop</td> <td>Grant St</td> <td>2006</td> <td>35</td> <td>2041</td> <td></td> <td>22</td> <td>4</td> <td>-</td>	Curb Stop	Grant St	2006	35	2041		22	4	-
Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001 <t< td=""><td>Curb Stop</td><td>Grant St</td><td>2006</td><td></td><td>2041</td><td></td><td></td><td>4</td><td>-</td></t<>	Curb Stop	Grant St	2006		2041			4	-
Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001	Curb Stop							4	-
Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001	·								-
Curb Stop         Grant St         2006         35         2041         63         22         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001 <td>·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>	·								-
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001	·								
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001									
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001	•	<u> </u>						<u>.</u>	-
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001	•							·	
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001	•								
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -		<u> </u>						4	
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -	Curb Stop							4	
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -	Curb Stop							4	-
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -	Curb Stop							4	-
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -           Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -	Curb Stop		1			63			-
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -	Curb Stop					63	17	4	-
Curb Stop         Gregory Cres         2001         35         2036         63         17         4         -	Curb Stop		2001	35	2036	63	17	4	-
	Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-



			Valves,	Valve Chambe	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop Curb Stop	Gregory Cres Gregory Cres	2001	35 35	2036 2036	63 63	17 17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop Curb Stop	Gregory Cres Gregory Cres	2001	35 35	2036 2036	63 63	17 17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63 63	17	4	-
Curb Stop Curb Stop	Gregory Cres Gregory Cres	2001	35 35	2036 2036	63	17 17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63 63	17	4	-
Curb Stop Curb Stop	Gregory Cres Gregory Cres	2001	35 35	2036 2036	63	17 17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63 63	17	4	-
Curb Stop Curb Stop	Gregory Cres Gregory Cres	2001	35 35	2036 2036	63	17 17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop Curb Stop	Gregory Cres Gregory Cres	2001	35 35	2036 2036	63 63	17 17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35		63	17	4	-
Curb Stop Curb Stop	Gregory Cres	2001	35 35		63 63	17 17	4	-
Curb Stop	Gregory Cres Gregory Cres	2001	35	2036	63	17	4	-
Curb Stop	Gregory Cres	2001	35		63	17	4	-
Curb Stop	Gregory Cres	2001	35		63	17	4	-
Curb Stop	Gregory Cres	2001	35		63 63	17 17	4	-
Curb Stop Curb Stop	Gregory Cres Gregory Cres	2001 2001	35 35		63	17	4	-
Curb Stop	Gregory Cres	2001	35		63	17	4	-
Curb Stop	Gregory Cres	2001	35		63	17	4	-
Curb Stop Curb Stop	Gregory Cres Guelph St	2001 2017	35 35		63 63	17 33	3	-
Curb Stop	Guelph St	2017	35		63	33	3	-
Curb Stop	Guelph St	2017	35		63	33	3	-
Curb Stop	Guelph St	2017	35		63	33	3	-
Curb Stop	Hibernia St Hibernia St	1966 1966	35 35		63 63	0	suggested for 10 year capital forecast	63 63
Curb Stop Curb Stop	Hibernia St	1966	35		63	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	63
Curb Stop	Hibernia St	1975	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Hibernia St	1975	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Hibernia St Hibernia St	1975 1975	35 35	2019 2019	63 63	0	suggested for 10 year capital forecast	63 63
Curb Stop	Hibernia St	1975	35	2019	63	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	63
Curb Stop	Hibernia St	1988	35	2023	63	4	suggested for 10 year capital forecast	63
Curb Stop	Hibernia St	1988	35	2023	63	4	suggested for 10 year capital forecast	63
Curb Stop	Hibernia St	1988	35 35	2023	63 63	4	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Hibernia St Hibernia St	1988 2000	35		63	16	suggested for 10 year capital forecast 5	63 -
Curb Stop	Hibernia St	2000	35		63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Hibernia St	2000	35 35		63 63	16 16	5	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2000	35		63	16 16	5	-
Curb Stop	Hibernia St	2000	35		63	16	5	-
Curb Stop	Hibernia St	2000	35		63	16	5	-
Curb Stop	Hibernia St	2000	35		63	16	5	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2000	35 35		63 63	16 16	5	-
Curb Stop	Hibernia St	2000	35		63	16	5	
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	It the emails Of	2000	35	2035	63	16	5	-
Cont. Co.	Hibernia St							
Curb Stop Curb Stop	Hibernia St Hibernia St Hibernia St	2000	35 35	2035	63 63	16 16	5	-



			Valves, '	Valve Chamber	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2000	35 35	2035 2035	63 63	16 16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2000	35 35	2035 2035	63 63	16 16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63 63	16	5	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2000 2000	35 35	2035 2035	63	16 16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63 63	16	5	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2000	35 35	2035 2035	63	16 16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2000	35 35	2035 2035	63 63	16 16	5 5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2000	35 35	2035 2035	63 63	16 16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop	Hibernia St	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2000	35 35	2035 2035	63 63	16 16	5	-
Curb Stop	Hibernia St	2007	35		63	23	3	
Curb Stop	Hibernia St	2007	35	2042	63	23	3	-
Curb Stop	Hibernia St	2007	35	2042	63 63	23	3	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2007 2007	35 35		63	23 23	3	-
Curb Stop	Hibernia St	2007	35	2042	63	23	3	-
Curb Stop	Hibernia St	2007	35	2042	63	23	3	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2007 2007	35 35	2042 2042	63 63	23 23	3 3	-
Curb Stop	Hibernia St	2007	35		63	23	3	-
Curb Stop	Hibernia St	2007	35		63	23	3	-
Curb Stop	Hibernia St	2007	35	2042	63 63	23	3	-
Curb Stop Curb Stop	Hibernia St Hibernia St	2007 2007	35 35		63	23 23	3	-
Curb Stop	Hibernia St	2007	35	2042	63	23	3	-
Curb Stop	Hibernia St	2007	35		63	23	3	-
Curb Stop	Hibernia St Hibernia St	2007 2007	35 35	2042 2042	63 63	23 23	3	-
Curb Stop Curb Stop	Hibernia St	2007	35	2042	63	23	3	-
Curb Stop	Hibernia St	2007	35	2042	63	23	3	-
Curb Stop	Hibernia St	2007	35	2042	63	23	3	-
Curb Stop Curb Stop	Hibernia St Inverness St	2007 2007	35 35	2042 2042	63 63	23 23	3	-
Curb Stop	Inverness St	2007	35	2042	63	23	3	-
Curb Stop	Inverness St	2007	35	2042	63	23	3	-
Curb Stop	Inverness St	2007	35	2042	63	23	3	-
Curb Stop Curb Stop	Inverness St Inverness St	2007 2007	35 35		63 63	23 23	3	-
Curb Stop	Inverness St	2007	35	2042	63	23	3	-
Curb Stop	Inverness St	2007	35	2042	63	23	3	-
Curb Stop	Inverness St	2007	35		63 63	23	3	-
Curb Stop Curb Stop	Inverness St Inverness St	2007 2007	35 35		63	23 23	3	-
Curb Stop	Inverness St	2007	35		63	23	3	-
Curb Stop	Inverness St	2007	35		63	23	3	-
Curb Stop	Inverness St	2007	35		63 63	23	3	-
Curb Stop Curb Stop	Inverness St Inverness St	2007 2007	35 35		63	23 23	3 3	-
Curb Stop	Inverness St	2007	35		63	23	3	
Curb Stop	Inverness St	2007	35	2042	63	23	3	-
Curb Stop Curb Stop	Inverness St	2007	35 35		63 63	23 23	3 3	-
Curb Stop Curb Stop	Inverness St Inverness St	2007	35		63	23	3	-
	<u> </u>				<u> </u>		,	



Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop	cycle Contribution  3 3 3 3 3 3 3 3 3 7 10 year capital forecast r 10 year	Amount to be included in 10 year Forecast
Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for	3 3 3 3 3 3 3 3 3 7 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 3 3 3 3 3 3 3 3 3 3	
Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         James St         2007         35         2042         63         23           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for	3 3 3 3 3 3 3 7 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 3 3 3 3 3 3 3 3	- - - - - - - 63 63 63 63 63 - - - -
Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         James St         2007         35         2042         63         23           Curb Stop         James St         2007         35         2042         63         23           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         <	3 3 3 3 3 3 7 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 3 3 3 3 3 3 3 3	- - - - 63 63 63 63 - - - -
Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         Joffre St         2016         35         2028         63         9         suggested for           Curb Stop         Joffre St <td>3 3 3 10 year capital forecast 10 year capital forecast 10 year capital forecast 10 year capital forecast 10 year capital forecast 10 year capital forecast 10 year capital forecast 10 year capital forecast 3 3 3 3 3 3 3</td> <td>- - - 63 63 63 63 63 - - -</td>	3 3 3 10 year capital forecast 10 year capital forecast 10 year capital forecast 10 year capital forecast 10 year capital forecast 10 year capital forecast 10 year capital forecast 10 year capital forecast 3 3 3 3 3 3 3	- - - 63 63 63 63 63 - - -
Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St	3 3 r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast 3 3 3 3 3 3 3	- 63 63 63 63 63 63 - - -
Curb Stop         Inverness St         2007         35         2042         63         23           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St	3 r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 3 3 3 3 3 3 3	- 63 63 63 63 63 - - -
Curb Stop         James St         1993         35         2028         63         9         suggested for Sugge	r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast 3 3 3 3 3	63 63 63 63 - - - -
Curb Stop         James St         1993         35         2028         63         9         suggested for Curb Stop           Curb Stop         James St         1993         35         2028         63         9         suggested for Curb Stop           Curb Stop         James St         1993         35         2028         63         9         suggested for Suggest	r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast 3 3 3 3 3 3	63 63 63 - - - -
Curb Stop         James St         1993         35         2028         63         9         suggested for Sugge	r 10 year capital forecast r 10 year capital forecast r 10 year capital forecast 3 3 3 3 3 3 3	63 63 63 - - -
Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32	r 10 year capital forecast r 10 year capital forecast 3 3 3 3 3 3 3	63 63 - - - -
Curb Stop         James St         1993         35         2028         63         9         suggested for           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32	10 year capital forecast 3 3 3 3 3 3 3 3	63 - - - -
Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32	3 3 3 3	- - -
Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32	3 3 3 3	-
Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32	3 3 3	-
Curb Stop         Joffre St         2016         35         2051         63         32           Curb Stop         Joffre St         2016         35         2051         63         32	3	
Curb Stop         Joffre St         2016         35         2051         63         32	_	-
	0	-
Callo Ctop	3	-
	r 10 year capital forecast	63
<u> </u>	r 10 year capital forecast	63
<u> </u>	10 year capital forecast	63
339	r 10 year capital forecast r 10 year capital forecast	63 63
Curb Stop         Linton Ave         2008         35         2043         63         24	3	-
Curb Stop         Linton Ave         2008         35         2043         63         24	3	-
Curb Stop         Linton Ave         2008         35         2043         63         24           Curb Stop         Linton Ave         2008         35         2043         63         24	3	
Curb Stop         Linton Ave         2008         35         2043         63         24           Curb Stop         Linton Ave         2008         35         2043         63         24	3	-
Curb Stop         Linton Ave         2008         35         2043         63         24	3	-
Curb Stop         Linton Ave         2008         35         2043         63         24	3	-
	r 10 year capital forecast r 10 year capital forecast	63 63
	10 year capital forecast	63
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         1998         35         2033         63         14	<u>5</u>	-
Curb Stop Long Dr 1998 35 2033 63 14	5	
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop Long Dr 1998 35 2033 63 14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop Long Dr 1998 35 2033 63 14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         4000         35         2000         63         44	5	-
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         1998         35         2033         63         14	<u> </u>	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         1998         35         2033         63         14	<u>5</u>	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         1998         35         2033         63         14	5	
Curb Stop         Long Dr         1998         35         2033         63         14	5	
Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop         Long Dr         1998         35         2033         63         14           Curb Stop         Long Dr         1998         35         2033         63         14	5	-
Curb Stop Long Dr 1998 35 2033 63 14	5	



			Valves,	Valve Chamber	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop Curb Stop	Long Dr Long Dr	1998 1998	35 35	2033 2033	63 63	14 14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998	35	2033	63 63	14	5	-
Curb Stop Curb Stop	Long Dr Long Dr	1998 1998	35 35	2033 2033	63	14 14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998	35 35	2033	63 63	14	5	-
Curb Stop Curb Stop	Long Dr Long Dr	1998 1998	35 35	2033 2033	63	14 14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998	35	2033	63 63	14	5	-
Curb Stop Curb Stop	Long Dr Long Dr	1998 1998	35 35	2033 2033	63	14 14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop Curb Stop	Long Dr Long Dr	1998 1998	35 35	2033 2033	63 63	14 14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998 1998	35 35	2033 2033	63 63	14 14	5	-
Curb Stop Curb Stop	Long Dr Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop Curb Stop	Long Dr Long Dr	1998 1998	35 35	2033 2033	63 63	14 14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998	35		63	14	5	-
Curb Stop Curb Stop	Long Dr Long Dr	1998 1998	35 35		63 63	14 14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop Curb Stop	Long Dr Long Dr	1998 1998	35 35		63 63	14 14	5	-
Curb Stop	Long Dr	1998	35		63	14	5	-
Curb Stop	Long Dr	1998	35	2033	63	14	5	-
Curb Stop	Maple Ave	1992	35		63 63	8	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Maple Ave Matilda St	1992 2000	35 35		63	8 16	suggested for 10 year capital forecast	63
Curb Stop	Mcmanus Rd	2000	35		63	16	5	-
Curb Stop	Mcnab St	2003	35	2038	63	19	4	-
Curb Stop Curb Stop	Mcnab St Mcnab St	2003	35 35		63 63	19 19	4	-
Curb Stop	Monab St	2003	35	2038	63	19	4	-
Curb Stop	Mcnab St	2003	35		63	19	4	-
Curb Stop Curb Stop	Mcnab St Mcnab St	2003 2003	35 35	2038 2038	63 63	19 19	4	-
Curb Stop	Mcnab St	2003	35	2038	63	19	4	-
Curb Stop	Mcnab St	2003	35	2038	63	19	4	-
Curb Stop	Monab St	2003	35	2038	63 63	19	4	-
Curb Stop Curb Stop	Mcnab St Mcnab St	2003 2003	35 35	2038 2038	63	19 19	4	-
Curb Stop	Mcnab St	2003	35	2038	63	19	4	-
Curb Stop	Mcnab St	2003	35	2038	63	19	4	-
Curb Stop Curb Stop	Mcnab St Mcnab St	2003	35 35		63 63	19 19	4	-
Curb Stop	Mercer St	1931	35		63	0	suggested for 10 year capital forecast	63
Curb Stop	Mercer St	1931	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Milton St	2000	35 35		63 63	16 16	5	-
Curb Stop Curb Stop	Milton St Milton St	2000	35		63	16 16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35		63	16	5	-
Curb Stop Curb Stop	Milton St Milton St	2000	35 35		63 63	16 16	5	-
Curb Stop	Milton St	2000	35		63	16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35		63 63	16	5	-
Curb Stop Curb Stop	Milton St Milton St	2000	35 35		63	16 16	5	-
Curb Stop	Milton St	2000	35		63	16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-



			Valves,	Valve Chamber	rs, and Curb Sto	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Milton St Milton St	2000	35 35	2035 2035	63 63	16 16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35	2035	63 63	16	5	-
Curb Stop Curb Stop	Milton St Milton St	2000	35 35	2035 2035	63	16 16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Milton St Milton St	2000	35 35	2035 2035	63 63	16 16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St Milton St	2000	35 35	2035 2035	63 63	16 16	5	-
Curb Stop Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop Curb Stop	Milton St Milton St	2000	35 35	2035 2035	63 63	16 16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35	2035	63 63	16	5	-
Curb Stop Curb Stop	Milton St Milton St	2000	35 35	2035 2035	63	16 16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35	2035	63	16	5	-
Curb Stop	Milton St	2000	35	2035	63 63	16 7	5	-
Curb Stop Curb Stop	Morgan St Morgan St	1991 1991	35 35	2026 2026	63	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Morgan St	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop	Morgan St	1991	35		63	7	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Morgan St Murray Hill Rd	1991 1971	35 35	2026 2019	63 63	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Murray Hill Rd	1971	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Murray Hill Rd	1971	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Murray Hill Rd	2000	35		63	16	5	-
Curb Stop Curb Stop	Murray Hill Rd Nightingale Pl	2000 1991	35 35	2035 2026	63 63	16 7	suggested for 10 year capital forecast	63
Curb Stop	Nightingale PI	1991	35		63	7	suggested for 10 year capital forecast	63
Curb Stop	Nightingale PI	1991	35		63	7	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Nightingale PI Nightingale PI	1991 1991	35 35		63 63	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Nile St	1996	35		63	12	6	-
Curb Stop	Norman St	1997	35		63	13	6	-
Curb Stop	Norman St	1997	35		63 63	13	6	
Curb Stop Curb Stop	Norman St Norman St	1997 1997	35 35	2032 2032	63	13 13	6	-
Curb Stop	Norman St	1997	35		63	13	6	
Curb Stop	Norman St	1997	35	2032	63	13	6	-
Curb Stop Curb Stop	Norman St Norman St	1997 1997	35 35	2032 2032	63 63	13 13	6	-
Curb Stop	Norman St	1997	35	2032	63	13	6	-
Curb Stop	Norman St	1997	35	2032	63	13	6	-
Curb Stop	Norman St	1997	35	2032	63	13	6	-
Curb Stop Curb Stop	Oakdale Ave Oakdale Ave	1991 1991	35 35	2026 2026	63 63	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Oakdale Ave	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop	Oakdale Ave	1991	35		63	7	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Oakdale Ave	1991	35 35		63 63	7	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Oakdale Ave Oakdale Ave	1991 1991	35	2026 2026	63	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Oakdale Ave	1991	35		63	7	suggested for 10 year capital forecast	63
Curb Stop	Oakdale Ave	1991	35		63	7	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Oakdale Ave Oakdale Ave	1991 1991	35 35		63 63	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Oakdale Ave	1991	35		63	7	suggested for 10 year capital forecast	63
Curb Stop	Oakdale Ave	1991	35	2026	63	7	suggested for 10 year capital forecast	63
Curb Stop	Oakdale Ave	1991	35	2026	63 63	7	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Oakdale Ave Oakdale Ave	1998 1998	35 35		63	14 14	<u> </u>	-
Curb Stop	Oakdale Ave	1998	35		63	14	5	-
Curb Stop	Oakdale Ave	1998	35		63	14	5	-
Curb Stop	Oakdale Ave	1998	35		63 63	14	5	-
Curb Stop	O'Loane Ave	2016	35	2051	63	32	3	-



			Valves,	Valve Chamber	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop Curb Stop	O'Loane Ave O'Loane Ave	2016 2016	35 35	2051 2051	63 63	32 32	3	-
Curb Stop	O'Loane Ave	2016	35	2051	63	32	3	-
Curb Stop	O'Loane Ave	2016	35	2051	63	32	3	-
Curb Stop Curb Stop	Ontario St Ontario St	1924 1992	35 35	2019 2027	63 63	0 8	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35	2027	63 63	8	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Ontario St Ontario St	1992 1992	35 35	2027 2027	63	8	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Ontario St Ontario St	1992 1992	35 35	2027 2027	63 63	8	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35		63	8	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Ontario St Ontario St	1992 1992	35 35	2027 2027	63 63	8 8	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Ontario St Ontario St	1992 1992	35 35	2027 2027	63	8 8	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35	2027	63 63	8	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Ontario St Ontario St	1992 1992	35 35	2027 2027	63	8	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Ontario St	1992	35		63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35		63	8	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Ontario St Ontario St	1992 1992	35 35	2027 2027	63 63	8	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35	2027	63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	1992	35		63 63	8	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Ontario St Ontario St	1992 1992	35 35	2027 2027	63	8	suggested for 10 year capital forecast suggested for 10 year capital forecast	63 63
Curb Stop	Ontario St	1992	35		63	8	suggested for 10 year capital forecast	63
Curb Stop	Ontario St	2008	35	2043	63	24	3	-
Curb Stop Curb Stop	Oxford St Oxford St	2017	35 35		63 63	33 33	3	-
Curb Stop	Oxford St	2017	35	2052	63	33	3	-
Curb Stop	Oxford St	2017	35	2052	63	33	3	-
Curb Stop	Oxford St	2017	35		63 63	33	3	-
Curb Stop Curb Stop	Oxford St Oxford St	2017 2017	35 35	2052 2052	63	33 33	3	-
Curb Stop	Oxford St	2017	35	2052	63	33	3	-
Curb Stop	Oxford St	2017	35	2052	63	33	3	-
Curb Stop	Queen St	1924 1924	35 35	2019 2019	63 63	0	suggested for 10 year capital forecast	63 63
Curb Stop Curb Stop	Queen St Queen St	1924	35	2019	63	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	63
Curb Stop	Queen St	1924	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop	Queen St	1924	35	2019	63	0	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Queen St Regent St	1924 2005	35 35	2019 2040	63 63	0 21	suggested for 10 year capital forecast	63
Curb Stop	Regent St	2005	35	2040	63	21	4	-
Curb Stop	Romeo St N	2005	35	2040	63	21	4	-
Curb Stop	Romeo St N	2005	35	2040	63 63	21	4	-
Curb Stop Curb Stop	Romeo St N Romeo St S	2005 1954	35 35	2040 2019	63	21 0	suggested for 10 year capital forecast	63
Curb Stop	Romeo St S	1980	35		63	0	suggested for 10 year capital forecast	63
Curb Stop	Shakespeare St	2013	35		63	29	3	-
Curb Stop	Shakespeare St	2013	35		63 63	29	3	-
Curb Stop Curb Stop	Shakespeare St Shakespeare St	2013 2013	35 35		63	29 29	3	-
Curb Stop	Shakespeare St	2013	35		63	29	3	-
Curb Stop	Shakespeare St	2013	35	2048	63	29	3	-
Curb Stop	Shakespeare St	2013	35		63 63	29	3	
Curb Stop Curb Stop	Shakespeare St Shakespeare St	2013 2013	35 35		63	29 29	3 3	-
Curb Stop	Shakespeare St	2013	35	2048	63	29	3	-
Curb Stop	Shakespeare St	2013	35		63	29	3	-
Curb Stop	Shakespeare St	2013	35	2048	63	29	3	-



	Valves, Valve Chambers, and Curb Stops							
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Curb Stop	Shakespeare St	2013	35	2048	63	29	3	-
Curb Stop	Shakespeare St	2013	35	2048	63 63	29	3	-
Curb Stop Curb Stop	Shakespeare St St Patrick St	2013	35 35	2048 2041	63	29 22	3 4	-
Curb Stop	St. Patrick St	2005	35	2040	63	21	4	-
Curb Stop	St. Patrick St	2005	35	2040	63	21	4	-
Curb Stop	Vivian Line 37	1999	35	2034	63	15	5	-
Curb Stop Curb Stop	Vivian Line 37 Vivian Line 37	1999 2014	35 35	2034 2049	63 63	15 30	5	-
Curb Stop	Vivian Line 37	2014	35	2049	63	30	3	-
Curb Stop	Vivian Line 37	2014	35	2049	63	30	3	-
Curb Stop	Vivian Line 37	2014	35	2049	63	30	3	-
Curb Stop Curb Stop	Vivian Line 37	2014	35 35	2049 2049	63 63	30 30	3	-
Curb Stop	Vivian Line 37 Vivian Line 37	2014	35	2049	63	30	3	-
Curb Stop	Vivian Line 37	2014	35	2049	63	30	3	-
Curb Stop	Vivian Line 37	2014	35	2049	63	30	3	-
Curb Stop	Vivian Line 37	2014	35	2049	63	30	3	-
Curb Stop	Vivian Line 37 Vivian Line 37	2014	35 35	2049 2049	63 63	30 30	3	-
Curb Stop Curb Stop	Vivian Line 37	2014	35	2049	63	30	3	-
Curb Stop	Vivian Line 37	2014	35	2049	63	30	3	-
Curb Stop	Wellington St	2004	35	2039	63	20	4	-
Curb Stop	West Gore St	2007	35	2042	63	23	3	-
Curb Stop Curb Stop	West Gore St Worsely St	2007 2005	35 35	2042 2040	63 63	23 21	3 4	-
Curb Stop	Worsley St	2005	35	2040	63	21	4	-
Curb Stop	Worsley St	2005	35	2040	63	21	4	-
Curb Stop	Wright Blvd	1989	35	2024	63	5	suggested for 10 year capital forecast	63
Curb Stop	Wright Blvd	1989	35	2024	63 63	5	suggested for 10 year capital forecast	63
Curb Stop Curb Stop	Wright Blvd Wright Blvd	1997 1997	35 35	2032 2032	63	13 13	<u>6</u>	
Valve	115 Greenwood Dr	1976	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	130 Youngs St	1960	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	16 Packham Ave	1961	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	16 Packham Ave 161 Lorne Ave W	1961 1958	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	161 Lorne Ave W	1995	35	2019	3,231	11	suggested for 10 year capital forecast 330	3,231
Valve	25 Wright Blvd	2000	35	2035	3,231	16	238	-
Valve	251 Lorne Ave W	1997	35	2032	3,231	13	285	-
Valve	261 Lorn Ave E	1971	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	291 Griffith Rd 291 Griffith Rd	1987 1996	35 35	2022	3,231 3,231	3 12	suggested for 10 year capital forecast 306	3,231
Valve	30 North St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	653 West Gore St	1980	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	89 Greenwood Dr	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	904 Downie St	1976	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Abbey Ct Abraham Dr	1968 2002	35	2019	3,231	18	suggested for 10 year capital forecast 216	3,231
Valve	Albert St	1926	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Albert St	1926	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Albert St	1926	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Albert St Albert St	1926 1929	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Albert St	1929	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Albert St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Albert St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Albert St	1931	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Albert St Albert St	1931 1931	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Albert St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Albert St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Albert St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Albert St	1940	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Albert St Albert St	1998 1998	35 35	2033 2033	3,231	14 14	267 267	-
Valve	Allman Arena	1924	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Allman Arena	1924	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Allman Arena	1924	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Arden Pk	1947	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Argyle St Argyle St	1979 1994	35 35		3,231	10	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Arthur St	1953	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Arthur St	1953	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ash St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231



Value	lve	Valves, V		Valves,	Valves,	, Va	alve Chamber	s, and Curb Sto	ps		
Value         Affiline Cise         1968         35         2026         3.201         5         suggested for 10 year capital for Value           Value         Affiline Cree         1994         38         3059         3.221         10         suggested for 10 year capital for Value           Value         Affiline Cree         1994         30         3099         3.221         0         suggested for 10 year capital for Value						d R		Replacement		Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Note Althoro Ces	2	35	)4	3:	35	35	2029		10	suggested for 10 year capital forecast	3,231
Marco		1		•						suggested for 10 year capital forecast	3,231
Value         Anot 81         1922         30         2010         9,231         0         supported for 10 year capital		1 1		1				· · · · · · · · · · · · · · · · · · ·		•	3,231 3,231
Value         Ann SI         1922         38         2019         3,2371         0         suggested to 10 year capable for Valve Ann SI         1920         39         2019         3,2371         0         suggested to 10 year capable for Valve Ann SI         2008         39         2010         3,2371         0         suggested for 10 year capable for Valve Ann SI         2008         39         2010         3,2371         21         Valve Ann SI         2008         39         2010         3,2371         21         Valve Ann SI         2008         39         2010         3,2371         21         Valve Ann SI         2008         39         2010         3,2371         21         Valve Ann SI         2010         3,2371         0         suggested for 10 year capable for Valve Ann SI         40 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>suggested for 10 year capital forecast</td> <td>3,231</td>								· · · · · · · · · · · · · · · · · · ·		suggested for 10 year capital forecast	3,231
Valve         Ann St         1926         38         2010         9,231         0         suggested for 10 year capital for Valve           Valve         Ann St         2006         38         2000         3,231         21           Valve         Ann St         2006         38         2000         3,231         21           Valve         Annotate Ane         1932         38         2010         3,231         0         suggested for 10 year capital for Valve           Valve         Annotate Ane         1932         38         2010         3,231         0         suggested for 10 year capital for Valve           Valve         Annotate Ane         1932         38         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Annotate Ane         1932         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Annotate Ane         1932         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Annotate Ane         1932         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Annotate Annota								3,231	1	suggested for 10 year capital forecast	3,231
Value         Ann St         2006         38         2040         9,321         21           Value         Ann St         2005         38         2019         3,221         21           Value         Annotale Ava         1327         38         2019         3,221         0         suspected for 10 year capital for 10 y	2	35	22	3	35	35	2019		0	suggested for 10 year capital forecast	3,231
Value         Ann. 81         2006         38         29400         3,221         21           Value         Ancholish Ann         1972         35         2019         3,221         0         suspected for 10 year capital for 10 year capita		1		•						suggested for 10 year capital forecast	3,231
Value         Averdalin Ave         1927         35         2019         3.281         0         suggested for 10 year capital for 10 year c		1		•				· · · · · · · · · · · · · · · · · · ·		190	-
Variety   Avendate Ave		1 1		1				· · · · · · · · · · · · · · · · · · ·		190 suggested for 10 year capital forecast	3,231
Valve         Ascentiate Ave         1932         35         2019         3.231         0         suggested for 10 year capital for Valve           Vine         Ascentiate Ave         1932         35         2019         3.281         0         suggested for 10 year capital for Valve           Vine         Ascentiate Ave         1932         35         2019         3.281         0         suggested for 10 year capital for Valve           Vine         Ascentiate Ave         2077         35         2018         3.281         0         suggested for Valver capital for Valver Capital for										suggested for 10 year capital forecast	3,231
Value         Avantation Ame         1932         35         2019         3.231         0         supposed to to 10 year central year central to 10 year ce	2	35	32	3!	35	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve         Avancted Ave         1932         35         2019         3,221         0         supported for 10 year capital for Valve           Valve         Avancties Ave         1932         35         2019         3,221         0         supported for 10 year capital for Valve           Valve         Avancties Ave         2007         35         2004         3,221         2         supported for 10 year capital for Valve           Valve         Avanced Dr.         1970         35         2004         3,221         2         3           Valve         Avanced Dr.         1970         35         2019         3,221         0         supported for 10 year capital for Valve           Valve         Avanced Dr.         1970         35         2019         3,221         0         supported for 10 year capital for Valve           Valve         Avanced Dr.         1976         35         2019         3,221         0         supported for 10 year capital for Valve           Valve         Avanced Dr.         1976         35         2019         3,221         0         supported for 10 year capital for Valve           Valve         Avanced Dr.         1976         35         2019         3,271         0         supported for 10 year capi		1		1						suggested for 10 year capital forecast	3,231
Alexander Ann		1		•						suggested for 10 year capital forecast	3,231
Value		1								•	3,231 3,231
Value         Avandale Ave         2007         38         2042         3.231         23           Value         Avandace Ave         2007         38         2049         3.231         0         suggested for 10 year capital for Value           Value         Avanood Dr         1976         38         2019         3.231         0         suggested for 10 year capital for Value           Value         Avanood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Value           Value         Avanood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Value           Value         Avanood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Value           Value         Avanood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Value           Value         Avanood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Value           Value         Avanood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Value		1 1		1						suggested for 10 year capital forecast	3,231
Valve         Accrawced Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accrawced Dr         1976         36         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accrawced Dr         1976         36         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accrawced Dr         1976         36         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accrawced Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accrawced Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accrawced Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accrawced Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accrawced Dr         1976         35         2019         3.231         0								3,231		177	-
Valve         Accommod Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accommod Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accommod Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accommod Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accommod Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accommod Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accommod Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Accommod Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yafe           Valve         Babb Cres         1988         35         2019         3.231         0         sug	2	35	)7	3	35	35	2042	-	23	177	-
Value         Anomood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yahe           Value         Anomood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yahe           Value         Anomood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yahe           Value         Anomood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yahe           Value         Anomood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yahe           Value         Anomood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yahe           Value         Anomood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yahe           Value         Anomood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Yahe           Value         Babb Cras         1988         35         2019         3.231         0         suggested f				<u> </u>						suggested for 10 year capital forecast	3,231
Valve										suggested for 10 year capital forecast	3,231
Valve										•	3,231 3,231
Valve         Aconwood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Aconwood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Aconwood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Aconwood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Babb Criss         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Babb Criss         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1973         36         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1973         36         2019         3.231         0         sugg										suggested for 10 year capital forecast	3,231
Valve         Avenwood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Avenwood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Avenwood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Babb Cres         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Babb Cres         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Babb Cres         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1972         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         su	2		<b>'</b> 6				2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve         Avonwood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Avonwood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Avonwood Dr         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Babb Cres         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Babb Cres         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1966         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1973         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1973         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         sug		1		<b>†</b>					+	suggested for 10 year capital forecast	3,231
Valve         Accurated Dr.         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Accurated Dr.         1976         35         2019         3.231         0         suggested for 10 year capital for Valve           Babb Cres         1988         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Babb Cres         1988         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baber St         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1972         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         36         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for									+	suggested for 10 year capital forecast	3,231
Valve         Abonwood Dr         1976         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Babb Cres         1988         35         2019         3,231         0         suggested for 10 year capital for Valve           Babb Cres         1988         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Baker St         1986         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Baker St         1972         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Ballentyne Ave         1910         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         2009         35         2044         3,231         25 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td></td><td>3,231 3,231</td></td<>									+		3,231 3,231
Valve         Babb Cres         1988         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Babb Cres         1986         35         2019         3.231         0         suggested for 10 year capital for Valve           Babb Cres         1986         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1996         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1973         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Barnot St         2009         36         2044         3.231         0         suggested for 10 year capital for Valve           Valve         Barron St         1977         35         2019         3.231         0         suggested for 10 year capi		1							<u> </u>	suggested for 10 year capital forecast	3,231
Valve         Babb Cres         1988         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1966         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Baker St         1972         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Balandsde St         2009         35         2044         3.231         25           Valve         Barnon St         1977         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Barnon St         1978         35         2019         3.231         0         suggested for 10 year capital for Valve		1 1		1		_		3,231	0	suggested for 10 year capital forecast	3,231
Valve         Baker St         1966         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Baker St         1972         35         2019         3,221         0         suggested for 10 year capital for Valve           Baker St         1973         35         2019         3,231         0         suggested for 10 year capital for Valve           Ballantyne Ave         1910         35         2019         3,231         0         suggested for 10 year capital for Valve           Ballantyne Ave         1910         35         2019         3,231         0         suggested for 10 year capital for Valve           Barnos Ballantyne Ave         1910         35         2019         3,231         0         suggested for 10 year capital for Valve           Barnos Ballantyne Ave         1910         35         2044         3,231         25           Valve         Barnostale St         2009         35         2044         3,231         25           Valve         Barnost         1977         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barno St         1978         35         2019         3,231	2	1		1			2019		0	suggested for 10 year capital forecast	3,231
Valve         Baker St         1972         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Balker St         1973         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Barreadie St         2009         35         2044         3.231         25           Valve         Barron St         1977         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3.231         0         suggested for 10 year capital for Valve		1		<del>                                     </del>		_			<u> </u>	suggested for 10 year capital forecast	3,231
Valve         Baker St         1973         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Barnsdale St         2009         35         2044         3.231         25           Valve         Barnsdale St         2009         35         2044         3.231         25           Valve         Barron St         1977         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Barron St		1		•				· · · · · · · · · · · · · · · · · · ·			3,231 3,231
Valve         Ballantyne Ave         1910         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Ballantyne Ave         1910         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Balrsdale St         2009         35         2044         3,231         25           Valve         Barnsdale St         2009         35         2044         3,231         25           Valve         Barron St         1977         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bartersh		1		•				· · · · · · · · · · · · · · · · · · ·		suggested for 10 year capital forecast	3,231
Valve         Ballantyne Ave         1910         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barnsdale St         2009         35         2044         3,231         25           Valve         Barnsdale St         2009         35         2044         3,231         25           Valve         Barron St         1977         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Battershall Ct         1976         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St </td <td></td> <td>1 1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>3,231</td> <td></td> <td>suggested for 10 year capital forecast</td> <td>3,231</td>		1 1		1				3,231		suggested for 10 year capital forecast	3,231
Valve         Barnsdale St         2009         35         2044         3,231         25           Valve         Barnsdale St         2009         35         2044         3,231         25           Valve         Barnon St         1977         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Battershall Ct         1976         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St	2	35	0	3	35	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve         Barrsol St         2009         35         2044         3,231         25           Valve         Barron St         1977         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1976         35         2019         3,231         0         suggested for 10 year capital for Valve           Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St		1		1						suggested for 10 year capital forecast	3,231
Valve         Barron St         1977         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bartershall Ct         1976         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         2005         35         2019         3,231         0         suggested for 10 y						_			1	165 165	-
Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barton St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Battershall Ct         1976         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1964         35         2019         3,231         0         suggested for		1		•							3,231
Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Battershall Ct         1976         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Baedford Dr         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1966         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested f		1 1		1						suggested for 10 year capital forecast	3,231
Valve         Barron St         1978         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Battershall Ct         1976         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         2005         35         2040         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 1	2	35	'8	3.	35	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve         Battershall Ct         1976         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         2005         35         2040         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for										suggested for 10 year capital forecast	3,231
Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         2005         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1965         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1971         35         2019         3,231         0         suggested for		+		+		_				suggested for 10 year capital forecast	3,231
Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1965         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested		1				_					3,231 3,231
Valve         Bay St         1920         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bay St         2005         35         2040         3,231         21           Valve         Bedford Dr         1964         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1965         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1971         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr		1				_		· · · · · · · · · · · · · · · · · · ·		suggested for 10 year capital forecast	3,231
Valve         Bedford Dr         1964         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1965         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1971         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for	2					_	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve         Bedford Dr         1965         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1971         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for	2	1	)5	1			2040		21	190	-
Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1971         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedl Ct         1993         35         2028         3,231         9         suggested for 10 year capital for           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for <tr< td=""><td></td><td>1</td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td>suggested for 10 year capital forecast</td><td>3,231</td></tr<>		1				_				suggested for 10 year capital forecast	3,231
Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1971         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for <tr< td=""><td></td><td>1</td><td>_</td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td>3,231 3,231</td></tr<>		1	_			_					3,231 3,231
Valve         Bedford Dr         1967         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1971         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for           Valve         Bell Ct         2000         35         2035         3,231         0         suggested for 10 year capital for		1				_		· · · · · · · · · · · · · · · · · · ·			3,231
Valve         Bedford Dr         1971         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for valve           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for valve           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for valve           Valve         Bell Ct         2000         35         2035         3,231         9         suggested for 10 year capital for valve           Valve         Birmingham St         1914         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Birmingham St         1921         35         2019         3,231         0         suggeste								· · · · · · · · · · · · · · · · · · ·	<u> </u>	suggested for 10 year capital forecast	3,231
Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for suggested for 10 year capital for suggested for 10 year capital for suggested for 10 year capital for year year year year year year year yea								3,231	0	suggested for 10 year capital forecast	3,231
Valve         Bedford Dr         1973         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for valve           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for valve           Valve         Bell Ct         2000         35         2035         3,231         9         suggested for 10 year capital for valve           Valve         Birmingham St         1914         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Birmingham St         1914         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Birmingham St         1921         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Birmingham St         1921         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Birmingham St         1922         35         2019         3,231         0									0	suggested for 10 year capital forecast	3,231
Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for           Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for           Valve         Bell Ct         2000         35         2035         3,231         16           Valve         Birmingham St         1914         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1921         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1921         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1921         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1922         35         2019         3,231         0         suggested for 10 year capital for										suggested for 10 year capital forecast	3,231
Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for						_		•		, ,	3,231 3,231
Valve         Bell Ct         1993         35         2028         3,231         9         suggested for 10 year capital for           Valve         Bell Ct         2000         35         2035         3,231         16           Valve         Birmingham St         1914         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1914         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1921         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1922         35         2019         3,231         0         suggested for 10 year capital for						_				suggested for 10 year capital forecast	3,231
Valve         Birmingham St         1914         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1914         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1921         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1922         35         2019         3,231         0         suggested for 10 year capital for		1 1		1						suggested for 10 year capital forecast	3,231
Valve         Birmingham St         1914         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1921         35         2019         3,231         0         suggested for 10 year capital for           Valve         Birmingham St         1922         35         2019         3,231         0         suggested for 10 year capital for									İ	238	-
Valve Birmingham St 1921 35 2019 3,231 0 suggested for 10 year capital for Valve Birmingham St 1922 35 2019 3,231 0 suggested for 10 year capital for										suggested for 10 year capital forecast	3,231
Valve Birmingham St 1922 35 2019 3,231 0 suggested for 10 year capital for										suggested for 10 year capital forecast	3,231
0.004						_		· · · · · · · · · · · · · · · · · · ·		suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve Birmingham St 1923 35 2019 3,231 0 suggested for 10 year capital for								3,231		suggested for 10 year capital forecast	3,231
Valve Birmingham St 1924 35 2019 3,231 0 suggested for 10 year capital for								3,231		suggested for 10 year capital forecast	3,231
									İ	suggested for 10 year capital forecast	3,231
									+	suggested for 10 year capital forecast	3,231
Valve         Birmingham St         1997         35         2032         3,231         13           Valve         Birmingham St         2002         35         2037         3,231         18										285 216	-



			Valves,	Valve Chambe	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Birmingham St	2002	35	2037	3,231	18	216	-
Valve	Birmingham St	2005	35	2040	3,231	21	190	-
Valve Valve	Birmingham St Birmingham St	2005 2005	35 35	2040 2040	3,231 3,231	21 21	190 190	-
Valve	Birmingham St	2005	35	2040	3,231	21	190	
Valve	Birmingham St	2012	35	2047	3,231	28	152	-
Valve	Birmingham St	2012	35	2047	3,231 3,231	28	152	-
Valve Valve	Birmingham St Blake St	2015 1914	35 35		3,231	31 0	141 suggested for 10 year capital forecast	3,231
Valve	Blake St	1914	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Blake St	1923	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Blake St	1964	35 35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Blake St Blake St	1965 1965	35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Blake St	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Blake St	2009	35	2044	3,231	25	165	
Valve	Borden St	1931	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Borden St Borden St	1964 1964	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Borden St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Borden St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231
Valve Valve	Borden St	1994 2014	35 35	2029 2049	3,231 3,231	10 30	suggested for 10 year capital forecast	3,231
Valve	Borden St Borden St	2014	35	2049	3,231	30	144	-
Valve	Boyd St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Boyd St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Braemar Cres	1974	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Braemar Cres Braemar Cres	1974 1974	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Braemar Cres	1974	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Brant St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Brett St	1976	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Brett St Briarhill Dr	1976 1966	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Briarhill Dr	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Briarhill Dr	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Briarhill Dr Briarhill Dr	1974 1974	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Briarhill Dr	1974	35	2019	3,231	2	suggested for 10 year capital forecast	3,231
Valve	Briarhill Dr	1986	35	2021	3,231	2	suggested for 10 year capital forecast	3,231
Valve	Briarhill Dr	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve Valve	Briarhill Dr Briarhill Dr	1991 1991	35 35	2026 2026	3,231 3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Britannia St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Britannia St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Britannia St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Britannia St Britannia St	1989 1991	35 35	2024 2026	3,231 3,231	5 7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Britannia St	1993	35	2028	3,231	9	suggested for 10 year capital forecast	3,231
Valve	Britannia St	2000	35	2035	3,231	16	238	-
Valve	Britannia St	2003	35	2038	3,231	19	206	-
Valve Valve	Britannia St Britannia St	2003	35 35	2038 2038	3,231 3,231	19 19	206 206	<u>-</u>
Valve	Britannia St	2003	35	2038	3,231	19	206	-
Valve	Britannia St	2003	35	2038	3,231	19	206	-
Valve	Britannia St	2013	35	2048	3,231	29	148	-
Valve Valve	Britannia St Brown St	2013 2010	35 35	2048 2045	3,231 3,231	29 26	148 161	-
Valve	Bruce St	1961	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Bruce St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Bruce St	1964	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Bruce St Bruce St	1964 1991	35 35	2019 2026	3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Bruce St	2014	35	2049	3,231	30	144	
Valve	Brunswick St	1921	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Brunswick St	1921	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Brunswick St Brunswick St	1924 1924	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Brunswick St	1924	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Brunswick St	1924	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Brunswick St	1924	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Brunswick St Brunswick St	1924 1924	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Brunswick St	1924	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Brunswick St	1989	35	2024	3,231	5	suggested for 10 year capital forecast	3,231



			Valves,	Valve Chambe	rs, and Curb Sto	ps		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Brunswick St	1989	35	2024	3,231	5	suggested for 10 year capital forecast	3,231
Valve	Brunswick St	1989	35	2024	3,231 3,231	5	suggested for 10 year capital forecast	3,231
Valve Valve	Brunswick St Brunswick St	1989 1994	35 35	2024 2029	3,231	5 10	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Brunswick St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231
Valve	Brunswick St	1995	35	2030	3,231	11	330	-
Valve	Brunswick St	1995	35	2030	3,231 3,231	11	330 330	-
Valve Valve	Brunswick St Brunswick St	1995 1924	35 35	2030 2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Brydges St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Brydges St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Brydges St Brydges St	1931 1931	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Brydges St	1945	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Brydges St	1948	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Brydges St	1953	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Brydges St Brydges St	1965 2009	35 35	2019 2044	3,231 3,231	0 25	suggested for 10 year capital forecast 165	3,231
Valve	Brydges St	2009	35	2044	3,231	25	165	-
Valve	Brydges St	2009	35	2044	3,231	25	165	-
Valve	Brydges St	2009	35	2044	3,231	25	165	-
Valve Valve	Brydges St Brydges St	2009	35 35	2044 2044	3,231 3,231	25 25	165 165	-
Valve	Brydges St	2009	35	2044	3,231	25	165	-
Valve	Brydges St	2009	35	2044	3,231	25	165	-
Valve	Brydges St	2009	35	2044	3,231	25	165	-
Valve Valve	Brydges St Brydges St	2009	35 35	2044 2044	3,231 3,231	25 25	165 165	-
Valve	Brydges St	2009	35	2044	3,231	25	165	-
Valve	Buckingham Dr	1971	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Buckingham Dr	1974	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Buckingham Dr Buckingham Dr	1974 1974	35 35		3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Burnham Ct	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve	Burritt St	1954	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Burritt St	1954	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Burritt St Burritt St	1963 1963	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Burritt St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Burritt St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Burritt St Burritt St	1963 1963	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231 3,231
Valve Valve	Burritt St	1966	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231
Valve	Burritt St	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Burritt St	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Burritt St Burritt St	1981 2003	35 35	2019 2038	3,231 3,231	0 19	suggested for 10 year capital forecast 206	3,231
Valve	Burritt St	2003	35	2038	3,231	19	206	-
Valve	Burritt St	2003	35	2038	3,231	19	206	-
Valve	Burwell Rd	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve Valve	Burwell Rd C.H. Meier Blvd	1987 1967	35 35	2022 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	C.H. Meier Blvd	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	C.H. Meier Blvd	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	C.H. Meier Blvd	1975	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	C.H. Meier Blvd C.H. Meier Blvd	1975 1975	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	C.H. Meier Blvd	1975	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Caledonia St	1932	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Caledonia St	1932	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Caledonia St Caledonia St	1947 1971	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Caledonia St	1998	35	2033	3,231	14	267	-
Valve	Caledonia St	2009	35	2044	3,231	25	165	-
Valve	Caledonia St	2009	35	2044	3,231 3,231	25	165	-
Valve Valve	Caledonia St Caledonia St	2009	35 35	2044 2044	3,231	25 25	165 165	-
Valve	Caledonia St	2009	35	2044	3,231	25	165	
Valve	Cambria St	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cambria St	1990	35		3,231 3,231	6	suggested for 10 year capital forecast	3,231
Valve Valve	Cambria St Cambria St	1990 1992	35 35		3,231	6 8	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Cambria St	1992	35		3,231	8	suggested for 10 year capital forecast	3,231
Valve	Cambria St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231
Valve	Cambria St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231



			Valves,	Valve Chamber	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Cambria St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231
Valve	Cambria St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231
Valve	Cambria St	1997	35	2032	3,231	13	285	-
Valve	Cambria St	1997	35	2032	3,231	13	285	-
Valve	Cambria St	2006	35	2041	3,231 3,231	22	183	-
Valve Valve	Cambria St Cambria St	2006 2006	35 35	2041 2041	3,231	22 22	183 183	-
Valve	Cambria St	2012	35	2047	3,231	28	152	-
Valve	Campbell Ct	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Campbell Ct	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Campbell Ct	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Campbell Ct	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Campbell Ct Campbell Ct	1976 1976	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Campbell Ct	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Campbell Ct	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Campbell Ct	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Campbell Ct	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Canterbury Ave	1947	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Canterbury Ave	1956	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Caroline St	1940 1980	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231 3,231
Valve Valve	Caroline St Caroline St	1980	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231
Valve	Cawston St	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cawston St	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cedar St	1975	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cedar St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cedar St	2011	35	2046	3,231	27	156	-
Valve	Cedarbrae Dr	1986	35	2021	3,231	2	suggested for 10 year capital forecast	3,231
Valve	Cedarbrae Dr	1986	35 35	2021	3,231 3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231
Valve Valve	Cedarbrae Dr Centre St	1991 1933	35	2026 2019	3,231	0	suggested for 10 year capital forecast	3,231 3,231
Valve	Centre St	1997	35		3,231	13	285	
Valve	Centre St	1997	35	2032	3,231	13	285	-
Valve	Centre St	2000	35	2035	3,231	16	238	-
Valve	Charles St	1940	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Charles St	1947	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Charles St Cherry St	1972 1925	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Chestnut St	1956	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Chestnut St	1956	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Chestnut St	2011	35	2046	3,231	27	156	-
Valve	Chestnut St	2011	35	2046	3,231	27	156	-
Valve	Chestnut St	2011	35	2046	3,231	27	156	-
Valve	Chestnut St	2011	35	2046	3,231 3,231	27	156	- 0.004
Valve Valve	Church St Church St	1922 1922	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Church St	1925	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Church St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Church St	1939	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Church St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve	Church St	1997	35	2032	3,231	13	285	-
Valve Valve	Church St Church St	2002 2003	35 35	2037 2038	3,231 3,231	18 19	216 206	-
Valve	Church St	2003	35	2038	3,231	19	206	
Valve	Church St	2005	35	2040	3,231	21	190	-
Valve	Church St	2015	35	2050	3,231	31	141	-
Valve	Church St	2015	35	2050	3,231	31	141	-
Valve	Church St	2015	35	2050	3,231	31	141	-
Valve	Churchill Crcl	2003	35	2038	3,231 3,231	19	206	- 0.004
Valve Valve	Cobourg St Cobourg St	1907 1913	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Cobourg St	1913	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cobourg St	1913	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cobourg St	1913	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cobourg St	1913	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cobourg St	1985	35	2020	3,231	1	suggested for 10 year capital forecast	3,231
Valve	Cody Dr	2010	35	2045	3,231 3,231	26	161	-
Valve Valve	Cody Dr Cody Dr	2004 2004	35 35	2039 2039	3,231	20 20	198 198	-
Valve	College St	2004	35		3,231	21	190	
Valve	Cooper St	1933	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cooper St	1933	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Cooper St	2010	35	2045	3,231	26	161	-
Valve	Corcoran St	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231



			Valves,	Valve Chamber	s, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Corcoran St	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Corcoran St	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Corcoran St Corcoran St	1955 1955	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Corcoran St	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Corcoran St	2008	35	2043	3,231	24	171	-
Valve	Corcoran St	2008	35	2043	3,231	24	171	-
Valve	Coriano St	1946	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Crane Ave Crane Ave	1961 1961	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Crane Ave	2009	35	2019	3,231	25	165	- 5,251
Valve	Crane Ave	2009	35	2044	3,231	25	165	-
Valve	Crane Ave	2009	35	2044	3,231	25	165	-
Valve	Crane Ave	2009	35	2044	3,231	25	165	-
Valve	Crane Ave	2009	35	2044	3,231 3,231	25 7	165	- 2 224
Valve Valve	Crawford St Crawford St	1991 1991	35 35	2026 2026	3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Crehan Cres	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Crehan Cres	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Crehan Cres	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Crooks St	1931	35 35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Crooks St Culliton St	1931 2015	35 35	2019 2050	3,231	0 31	suggested for 10 year capital forecast	3,231
Valve	Daly Ave	1921	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Daly Ave	1996	35	2031	3,231	12	306	-
Valve	Daly Ave	2005	35	2040	3,231	21	190	-
Valve	Dannecker Rd	2004	35	2039	3,231	20	198	-
Valve Valve	Dannecker Rd	2004	35 35	2039 2039	3,231 3,231	20 20	198 198	-
Valve	Dannecker Rd Dannecker Rd	2004	35	2039	3,231	20	198	-
Valve	Dannecker Rd	2004	35	2039	3,231	20	198	-
Valve	Dannecker Rd	2004	35	2039	3,231	20	198	-
Valve	Dannecker Rd	2004	35		3,231	20	198	-
Valve	Dawson St	1956	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Dawson St Dawson St	1958 1966	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Dawson St	1966	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Deacon St	1976	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Deacon St	1976	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Delamere Ave	1926	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Delamere Ave  Delamere Ave	1926 1931	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Delamere Ave	1956	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Delamere Ave	1963	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Delamere Ave	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Delamere Ave	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Demille St Demille St	1978 1978	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Denison St	1956	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Devon St	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Devon St	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Devon St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Devon St  Devon St	1968 1968	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve Valve	Devon St Devon St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Devon St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Devon St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Devon St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Devon St	1968	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Devon St  Devon St	1968 1976	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Devon St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Devon St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Devon St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Devon St	1976	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Devon St Devon St	1976 1976	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Devon St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Diana Ct	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dickens PI	1976	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dingman PI	1987	35		3,231	3	suggested for 10 year capital forecast	3,231
Valve	Dixon Rd	1967	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dixon Rd	1967	35			0	suggested for 10 year capital forecast	3,231
Valve	Dixon Rd	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231



			Valves,	Valve Chamber	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Dorland Dr	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dorland Dr	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Dorland Dr Douglas St	1967 1908	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Douglas St	1908	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douglas St	1915	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douglas St	1921	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douglas St	1948	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Douglas St  Douglas St	1974 1992	35 35	2019 2027	3,231	0 8	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Douglas St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve	Douglas St	2000	35	2035	3,231	16	238	-
Valve	Douglas St	2000	35	2035	3,231	16	238	-
Valve	Douglas St	2000	35	2035	3,231 3,231	16	238	-
Valve Valve	Douglas St  Douglas St	2000 2005	35 35	2035 2040	3,231	16 21	238 190	-
Valve	Douglas St	2005	35	2040	3,231	21	190	-
Valve	Douglas St	2011	35	2046	3,231	27	156	-
Valve	Douglas St	2011	35	2046	3,231	27	156	
Valve	Douro St	1920	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Douro St Douro St	1920 1920	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Douro St	1920	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1920	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1920	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1920	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Douro St Douro St	1920 1920	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1920	35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Douro St	1939	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1963	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1963	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Douro St Douro St	1963 1963	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Douro St	1963	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1963	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1963	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1964	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Douro St Douro St	1964 1964	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Douro St	1964	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1965	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1965 1966	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231 3,231
Valve Valve	Douro St Douro St	1968	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231
Valve	Douro St	1969	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Douro St	1920	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dover St	1915	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Dover St  Dover St	1915 1923	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231 3,231
Valve	Downie St	1923	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231
Valve	Downie St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1939	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Downie St  Downie St	1939 1939	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Downie St	1939	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1939	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1939	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1939	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Downie St  Downie St	1939 1939	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Downie St	1939	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1939	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1939	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1939	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1940	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Downie St Downie St	1948 1964	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Downie St	1965	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1965	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231



			Valves,	Valve Chamber	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Downie St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Downie St	2006	35	2041	3,231	22	183	-
Valve	Downie St	2008	35	2043	3,231 3,231	24	171 171	-
Valve Valve	Downie St  Downie St	2008 2008	35 35	2043 2043	3,231	24 24	171 171	-
Valve	Downie St	2013	35	2048	3,231	29	148	-
Valve	Downie St	2017	35	2052	3,231	33	135	-
Valve	Downie St	2017	35	2052	3,231	33	135	-
Valve	Dufferin St	1914	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Dufferin St Dufferin St	1914	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dufferin St	1914 1931	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Dufferin St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dufferin St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dufferin St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dufferin St	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Dufferin St Dufferin St	1965 1965	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Dufferin St	2005	35	2040	3,231	21	190	-
Valve	Dufferin St	2008	35	2043	3,231	24	171	-
Valve	Dufferin St	2008	35	2043	3,231	24	171	-
Valve	Dufferin St	2008	35	2043	3,231	24	171	-
Valve	Dufferin St	2015	35	2050	3,231 3,231	31	141	- 0.004
Valve Valve	Dufferin Tower  Dufferin Tower	1964 1964	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Dufferin Tower	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dufferin Tower	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dufferin Water Tower	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Dufferin Water Tower	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Duke St Dunlop Pl	1997 1991	35 35	2032 2026	3,231 3,231	13 7	285 suggested for 10 year capital forecast	3,231
Valve	Dunlop PI	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Dunlop PI	1991	35		3,231	7	suggested for 10 year capital forecast	3,231
Valve	Dunlop PI	2009	35	2044	3,231	25	165	-
Valve	Dunn Rd	1986	35	2021	3,231	2	suggested for 10 year capital forecast	3,231
Valve Valve	Dunn Rd Dunn Rd	1986 1986	35 35	2021	3,231 3,231	2	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Dunn Rd	1986	35	2021	3,231	2	suggested for 10 year capital forecast	3,231
Valve	Dunn Rd	2001	35	2036	3,231	17	226	-
Valve	Dunn Rd	2001	35	2036	3,231	17	226	-
Valve	Dunn Rd	2001	35	2036	3,231	17	226	-
Valve	Dunn Rd	2001	35 35	2036	3,231 3,231	17	226 226	-
Valve Valve	Dunn Rd Dunn Rd	2001	35	2036 2036	3,231	17 17	226	-
Valve	Dunn Rd	2001	35	2036	3,231	17	226	-
Valve	Dunn Rd	2001	35	2036	3,231	17	226	-
Valve	Dunn Rd	2001	35	2036	3,231	17	226	-
Valve	Dunn Rd	2001	35	2036	3,231	17	226	-
Valve Valve	Dunn Rd Dunn Rd	2001	35 35	2036 2036	3,231 3,231	17 17	226 226	-
Valve	Durkin St	2009	35	2030	3,231	25	165	
Valve	Durkin St	2009	35	2044	3,231	25	165	-
Valve	Eagle Dr	1998	35	2033	3,231	14	267	-
Valve	Eagle Dr	1998	35	2033	3,231	14	267	-
Valve	Eagle Dr	1998	35	2033	3,231	14	267	-
Valve Valve	Eagle Dr Eagle Dr	1998 1998	35 35	2033	3,231 3,231	14 14	267 267	-
Valve	Earl St	1998	35	2033	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Earl St	2003	35	2038	3,231	19	206	-
Valve	Easson St	1954	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Easson St	1954	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Easson St	1954	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Easson St Easson St	1956 1956	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Easson St	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Easson St	2015	35	2050	3,231	31	141	-
Valve	Easson St	2015	35	2050	3,231	31	141	-
Valve	Easson St	2015	35	2050	3,231	31	141	-
Valve	East Gore St	1931	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	East Gore St Egan Crcl	1932 1978	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Elgin Cres	1978	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Elgin Cres	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Elgin Cres	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Elgin Cres	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231



	Valves, Valve Chambers, and Curb Stops								
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast	
Valve	Elgin Cres	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Elgin Cres	1964	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Elgin Cres Elgin Cres	1964 1964	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Elizabeth St	1995	35	2030	3,231	11	330	-	
Valve	Elizabeth St	1995	35	2030	3,231	11	330	-	
Valve	Elizabeth St	2002	35	2037	3,231 3,231	18	216	-	
Valve Valve	Elizabeth St Elm St	2002	35 35	2037 2042	3,231	18 23	<u>216</u> 177	-	
Valve	Elm St	2007	35	2042	3,231	23	177	-	
Valve	Elm St	2007	35	2042	3,231	23	177	-	
Valve Valve	Elm St Erie St	2007 1912	35 35	2042 2019	3,231 3,231	23 0	177 suggested for 10 year capital forecast	3,231	
Valve	Erie St	1912	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1921	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1921	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Erie St Erie St	1921 1921	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Erie St	1924	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Erie St Erie St	1931 1931	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Erie St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Erie St Erie St	1955 1960	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Erie St	1960	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1960	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1960	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Erie St Erie St	1960 1960	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Erie St	1961	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1961	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Erie St Erie St	1961 1961	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Erie St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Erie St Erie St	1967 1970	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Erie St	1970	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1970	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1970	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Erie St Erie St	1970 1987	35 35	2019 2022	3,231 3,231	3	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Erie St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231	
Valve	Erie St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231	
Valve	Erie St	2005	35	2040	3,231 3,231	21	190	-	
Valve Valve	Erie St Erie St	2006 2006	35 35	2041 2041	3,231	22	183 183	-	
Valve	Erie St	2006	35	2041	3,231	22	183	-	
Valve	Erie St	2006	35	2041	3,231	22	183	-	
Valve Valve	Erie St Erie St	2006 2006	35 35	2041	3,231 3,231	22	183 183	-	
Valve	Erie St	2006	35	2041	3,231	22	183	-	
Valve	Erie St	2008	35	2043	3,231	24	171	-	
Valve	Erie St	2011	35	2046	3,231	27	156	-	
Valve Valve	Erie St Erie St	2011	35 35	2046 2046	3,231 3,231	27 27	156 156	-	
Valve	Essex St	1964	35	2046	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Essex St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Essex St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Fairfield Dr Fairfield Dr	2006 2006	35 35	2041 2041	3,231 3,231	22 22	183 183	-	
Valve	Fairfield Dr	2006	35		3,231	22	183	-	
Valve	Fairfield Dr	2006	35	2041	3,231	22	183	-	
Valve	Fairfield Dr	2006	35	2041	3,231	22	183	-	
Valve Valve	Fairfield Dr	2010	35 35		3,231 3,231	26 26	161 161	-	
Valve Valve	Fairfield Dr Falstaff St	1939	35		3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Falstaff St	1992	35		3,231	8	suggested for 10 year capital forecast	3,231	
Valve	Falstaff St	1992	35		3,231	8	suggested for 10 year capital forecast	3,231	
Valve	Falstaff St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231	



	Valves, Valve Chambers, and Curb Stops									
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast		
Valve Valve	Falstaff St Falstaff St	1992 2018	35 35	2027 2053	3,231 3,231	8 34	suggested for 10 year capital forecast	3,231		
Valve	Feick Cres	1962	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Feick Cres	1962	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Feick Cres	1962	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Fern St	1965	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Fern St Findlay PI	1965 2010	35 35	2019 2045	3,231	0 26	suggested for 10 year capital forecast	3,231		
Valve	Findlay PI	2010	35	2045	3,231	26	161	-		
Valve	Findlay PI	2010	35	2045	3,231	26	161	-		
Valve	Foreman Tower	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231		
Valve	Forman Ave	1962	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Forman Ave	1962 1962	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Forman Ave	1962	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Forman Ave	1962	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Forman Ave	1962	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Forman Ave	1969	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Forman Ave	1969 1970	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Forman Ave	1970	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Forman Ave	1975	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Forman Ave	1975	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Forman Ave	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231		
Valve Valve	Forman Ave	1991 1991	35 35	2026 2026	3,231 3,231	7	suggested for 10 year capital forecast	3,231		
Valve	Forman Ave Forman Ave	1991	35	2026	3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Forman Ave	1995	35		3,231	11	330	-		
Valve	Forman Ave	2003	35	2038	3,231	19	206	-		
Valve	Franklin Dr	1971	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Franklin Dr	2000	35		3,231 3,231	16	238	-		
Valve Valve	Franklin Dr Franklin Dr	2000	35 35		3,231	16 16	238 238	-		
Valve	Frederick St	1921	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Frederick St	1921	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Frederick St	1923	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Frederick St	1966	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Frederick St Frederick St	1966 1968	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Frederick St	1976	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Frederick St	2003	35		3,231	19	206	-		
Valve	Frederick St	2003	35		3,231	19	206	-		
Valve	Freeland Dr	1931	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Freeland Dr Freeland Dr	1978 1978	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Freeland Dr	1979	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Freeland Dr	1989	35	2024	3,231	5	suggested for 10 year capital forecast	3,231		
Valve	Freeland Dr	1989	35	2024	3,231	5	suggested for 10 year capital forecast	3,231		
Valve	Freeland Dr	1989	35	2024	3,231	5	suggested for 10 year capital forecast	3,231		
Valve	Freeland Dr	1989	35	2024	3,231 3,231	5	suggested for 10 year capital forecast	3,231		
Valve Valve	Freeland Dr Front St	1989 1908	35 35	2024 2019	3,231	5 0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Front St	1908	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Front St	1912	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Front St	1912	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Front St	1921	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Front St Front St	1926 1926	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast	3,231 3,231		
Valve	Front St	1926	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231		
Valve	Front St	1926	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Front St	2000	35	2035	3,231	16	238	-		
Valve	Front St	2016	35	2051	3,231	32	138	<u>-</u>		
Valve	Gallery Stratford	1931	35 35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Gallery Stratford Gallery Stratford	1964 1964	35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Galt Rd	1977	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Galt Rd	1977	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Galt Rd	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231		
Valve	Gemmell Ct	1993	35	2028	3,231 3,231	9	suggested for 10 year capital forecast	3,231		
Valve Valve	George St E George St E	1939 1939	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	George St E	1939	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve	George St W	2004	35		3,231	20	198	-		
Valve	George St W	2004	35		3,231	20	198	-		
Valve	George St W	2010	35	2045	3,231	26	161	-		



			Valves,	Valve Chambe	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Glastonbury Cres	1946	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glastonbury Cres	1952	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Glastonbury Cres	1953 1946	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231
Valve	Glastonbury Dr Glastonbury Dr	1946	35	2019	3,231	0	suggested for 10 year capital forecast	3,231 3,231
Valve	Glastonbury Dr	1946	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glastonbury Dr	1952	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glastonbury Dr	1953	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Glastonbury Dr	1976 1976	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glastonbury Dr Glastonbury Dr	1976	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Glastonbury Dr	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glastonbury Dr	1985	35	2020	3,231	1	suggested for 10 year capital forecast	3,231
Valve	Glastonbury Dr	2003	35	2038	3,231	19	206	-
Valve	Glendon Rd	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Glendon Rd Glendon Rd	1963 1963	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Glendon Rd	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glendon Rd	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glendon Rd	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glendon Rd	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Glendon Rd Glendon Rd	1965 1966	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Glendon Rd	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glendon Rd	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glendon Rd	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glendon Rd	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Glendon Rd	1966	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Glendon Rd Glendon Rd	1966 1972	35 35		3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Glendon Rd	1972	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Gordon St	1956	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Gordon St	1956	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Gordon St	1956	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Graff Ave Graff Ave	1966 1967	35 35		3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Graff Ave	1967	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Graff Ave	1967	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Graff Ave	1967	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Graff Ave	1967	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Graff Ave	1967 1967	35 35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Graff Ave	1967	35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Graff Ave	1971	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Graff Ave	1971	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Graff Ave	1971	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Graff Ave	1971	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Graff Ave Graham Cres	2017 1976	35 35	2052 2019	3,231	33 0	135 suggested for 10 year capital forecast	3,231
Valve	Graham Cres	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Graham Cres	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Grange St	1926	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Grange St	1927	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Grange St	1996 1950	35	2031	3,231 3,231	12 0	306	- 2 224
Valve Valve	Grant St Grant St	2003	35 35	2019 2038	3,231	19	suggested for 10 year capital forecast 206	3,231
Valve	Grant St	2003	35	2038	3,231	19	206	-
Valve	Greenberg PI	2006	35	2041	3,231	22	183	-
Valve	Greenberg PI	2006	35	2041	3,231	22	183	-
Valve	Greenberg PI	2010	35	2045	3,231	26	161	-
Valve Valve	Greenberg PI Greenwood Dr	2010 1976	35 35	2045 2019	3,231 3,231	26 0	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr Greenwood Dr	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr	1977	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr	1977	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr	1977	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Greenwood Dr Greenwood Dr	1977 1977	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Greenwood Dr Greenwood Dr	1977	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr	1977	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr	1977	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr	1987	35		3,231	3	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr	1987	35		3,231	3	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231



			Valves,	Valve Chambe	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Greenwood Dr	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Greenwood Dr	1987	35	2022	3,231 3,231	3	suggested for 10 year capital forecast	3,231
Valve Valve	Gregory Cres Gregory Cres	2001	35 35	2036 2036	3,231	17 17	226 226	
Valve	Griffith Rd	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Griffith Rd	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Griffith Rd	1976	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve	Griffith Rd Griffith Rd	1979 1979	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Griffith Rd	1988	35	2023	3,231	4	suggested for 10 year capital forecast	3,231
Valve	Griffith Rd	1989	35	2024	3,231	5	suggested for 10 year capital forecast	3,231
Valve Valve	Griffith Rd Griffith Rd W	2010 1989	35 35	2045 2024	3,231 3,231	26 5	suggested for 10 year capital forecast	3,231
Valve	Griffith Rd W	1991	35	2024	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Griffith Rd W	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Griffith Rd W	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve Valve	Griffith Rd W Griffith Rd W	2009 2009	35 35	2044 2044	3,231 3,231	25 25	165 165	
Valve	Griffith Rd W	2009	35	2044	3,231	25	165	
Valve	Guelph St	1980	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Guelph St	2017	35	2052	3,231 3,231	33	135	
Valve Valve	Guelph St Guelph St	2017 2017	35 35	2052 2052	3,231	33 33	135 135	
Valve	Guthrie Ave	1948	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Haig St	1950	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Haig St	1950 1963	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve	Haig St Haig St	1963	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Haig St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Hamilton St	1971	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Harrison St Harrison St	2006 2006	35 35		3,231 3,231	22 22	183 183	-
Valve	Harrison St	2006	35		3,231	22	183	
Valve	Henry Dr	1988	35		3,231	4	suggested for 10 year capital forecast	3,231
Valve	Henry Dr	1988	35		3,231	4	suggested for 10 year capital forecast	3,231
Valve Valve	Hesson St Hesson St	1948 1993	35 35		3,231 3,231	9	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Hibernia St	1923	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Hibernia St	1923	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Hibernia St	1962 1962	35 35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Hibernia St Hibernia St	1962	35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Hibernia St	1966	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Hibernia St	1966	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Hibernia St Hibernia St	1966 1966	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Hibernia St	1975	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Hibernia St	1988	35	2023	3,231	4	suggested for 10 year capital forecast	3,231
Valve	Hibernia St	1988	35	2023	3,231 3,231	4	suggested for 10 year capital forecast	3,231
Valve Valve	Hibernia St Hibernia St	2000	35 35	2035 2035	3,231	16 16	238	
Valve	Hibernia St	2000	35	2035	3,231	16	238	-
Valve	Hibernia St	2007	35	2042	3,231	23	177	-
Valve Valve	Hibernia St Hickory Lane	2007 1968	35 35	2042 2019	3,231 3,231	23	177 suggested for 10 year capital forecast	3,231
Valve	Hickory Lane	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Hickory Lane	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Hickory Lane	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Hillcrest Dr Hillcrest Dr	1950 1950	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Home St	1930	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Home St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Home St	1965	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Home St	1965 1965	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Home St	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Home St	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Home St	1965	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Home St	1965 1996	35 35	2019 2031	3,231	0 12	suggested for 10 year capital forecast 306	3,231
Valve	Home St	1996	35		3,231	12	306	
Valve	Home St	1996	35	2031	3,231	12	306	
11.7.1	Home St	1996	35	2031	3,231	12	306	-
Valve Valve	Home St	2009	35		3,231	25	165	_



			Valves,	Valve Chamber	rs, and Curb Stop	os			
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast	
Valve	Hossie Terr	2004	35	2039	3,231	20	198	-	
Valve	Hossie Terr	2004	35	2039	3,231	20	198	-	
Valve	Humber St	1979	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Humber St Huntingdon Ave	1987 1931	35 35	2022 2019	3,231	3 0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Huntingdon Ave	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huntingdon Ave	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huntingdon Ave	1962	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huntingdon Ave	1962	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huntingdon Ave	1962	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Huntingdon Ave Huron St	1965 1931	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Huron St	1937	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huron St	1937	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huron St	1937	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huron St	1959	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huron St	1959 1959	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve Valve	Huron St Huron St	1959	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huron St	1959	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huron St	1959	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huron St	1960	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Huron St	1993	35	2028	3,231 3,231	9	suggested for 10 year capital forecast	3,231	
Valve Valve	Huron St Huron St	1993 1993	35 35	2028 2028	3,231	9	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Huron St	2004	35	2039	3,231	20	198	- 3,231	
Valve	Hyde Rd	1999	35	2034	3,231	15	251	-	
Valve	Hyde Rd	1999	35	2034	3,231	15	251	-	
Valve	Hyde Rd	1999	35	2034	3,231	15	251	-	
Valve	Inverness St	2007	35 35	2042	3,231 3,231	23	177 177	-	
Valve Valve	Inverness St James St	1993	35	2042	3,231	23 9	suggested for 10 year capital forecast	3,231	
Valve	James St	1993	35		3,231	9	suggested for 10 year capital forecast	3,231	
Valve	Jarvis St	2008	35	2043	3,231	24	171	-	
Valve	Jarvis St	2008	35	2043	3,231	24	171	-	
Valve	Joffre St	1954	35 35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	John St N John St N	1940 1940	35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	John St N	1940	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	John St N	1940	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	John St N	1940	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	John St N	1940	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	John St N John St N	1940 1940	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	John St N	1940	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	John St N	2000	35	2035	3,231	16	238	-	
Valve	John St N	2003	35	2038	3,231	19	206	-	
Valve	John St N	2004	35	2039	3,231	20	198	-	
Valve	John St S	1914	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	John St S John St S	1931 1987	35 35	2019 2022	3,231	3	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	John St S	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231	
Valve	John St S	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231	
Valve	John St S	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231	
Valve	John St S	1990	35	2025	3,231	6	suggested for 10 year capital forecast	3,231	
Valve	John St S	1990	35	2025	3,231 3,231	6	suggested for 10 year capital forecast	3,231	
Valve Valve	John St S John St S	1990 1990	35 35	2025 2025	3,231	6 6	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	John St S	1990	35	2025	3,231	6	suggested for 10 year capital forecast	3,231	
Valve	John St S	2004	35	2039	3,231	20	198	-	
Valve	John St S	2004	35	2039	3,231	20	198	-	
Valve	Jones St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Jones St Jones St	1931 2003	35 35	2019 2038	3,231 3,231	0 19	suggested for 10 year capital forecast 206	3,231	
Valve	Jones St	2003	35	2038	3,231	25	165		
Valve	Kappele Crcl	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Kathryn Cres	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Kathryn Cres	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Kathryn Cres	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Kathryn Cres	1968	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Kathryn Cres Kay St	1973 1991	35 35	2019 2026	3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Kemp Cres	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Kemp Cres	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Kemp Cres	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	



			Valves,	Valve Chamber	s, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Kemp Cres	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Kemp Cres	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Kemp Cres Kemp Cres	1967 1967	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Kemp Cres	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Kenner Cres	1977	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Kenner Cres	1977	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Kent Lane	1989	35	2024	3,231	5	suggested for 10 year capital forecast	3,231
Valve Valve	Kent Lane Killoran Cres	1989 1993	35 35	2024 2028	3,231 3,231	5 9	suggested for 10 year capital forecast	3,231
Valve	Killoran Cres	1993	35	2028	3,231	9	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Killoran Cres	1993	35	2028	3,231	9	suggested for 10 year capital forecast	3,231
Valve	King St	1914	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	King St	1914	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	King St	1916	35	2019	3,231 3,231	0 14	suggested for 10 year capital forecast	3,231
Valve Valve	King St King St	1998 1998	35 35	2033 2033	3,231	14	267 267	_
Valve	King St	1998	35	2033	3,231	14	267	-
Valve	Laurier St	1922	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lightbourne Ave	1978	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lightbourne Ave	1978	35 35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Lightbourne Ave Lightbourne Ave	1978 1987	35 35	2019 2022	3,231	3	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Lightbourne Ave	1993	35	2028	3,231	9	suggested for 10 year capital forecast	3,231
Valve	Lightbourne Ave	2000	35	2035	3,231	16	238	
Valve	Lightbourne Ave	2002	35	2037	3,231	18	216	-
Valve	Lightbourne Ave	2002	35	2037	3,231	18	216	
Valve Valve	Lightbourne Ave Linden Ct	2002 1976	35 35	2037 2019	3,231 3,231	18 0	216	
Valve	Linden Ct Line 29	2009	35	2019	3,231	25	suggested for 10 year capital forecast	3,231
Valve	Line 29	2009	35	2044	3,231	25	165	
Valve	Line 29	2009	35	2044	3,231	25	165	-
Valve	Linton Ave	2008	35	2043	3,231	24	171	-
Valve	Little Thames Pl	2011	35	2046 2046	3,231 3,231	27 27	156	
Valve Valve	Little Thames PI Little Thames PI	2011	35 35	2046	3,231	27	156 156	
Valve	Little Thames PI	2011	35	2046	3,231	27	156	
Valve	Little Thames Pl	2011	35	2046	3,231	27	156	-
Valve	Lloyd Ct	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Long Dr	1998	35	2033	3,231 3,231	14	267	-
Valve Valve	Long Dr Long Dr	1998 1998	35 35	2033	3,231	14 14	<u>267</u> 267	-
Valve	Long Dr	1998	35	2033	3,231	14	267	-
Valve	Long Dr	1998	35	2033	3,231	14	267	-
Valve	Lorne Ave E	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave E	1955	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Lorne Ave E	1965 1965	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Lorne Ave E	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave E	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave E	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave E	1965	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Lorne Ave E Lorne Ave E	1965 1965	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Lorne Ave E	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave E	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave E	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave E	1965	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave E	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Lorne Ave E	1979 1991	35 35	2019 2026	3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Lorne Ave E	1995	35	2030	3,231	11	330	
Valve	Lorne Ave E	1997	35	2032	3,231	13	285	-
Valve	Lorne Ave E	2014	35	2049	3,231	30	144	-
Valve	Lorne Ave W	1955 1955	35 35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Lorne Ave W Lorne Ave W	1955 1958	35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Lorne Ave W	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave W	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave W	1968	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave W	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Lorne Ave W Lorne Ave W	1968 1968	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Lorne Ave W	1968	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave W	1968	35		3,231	0	suggested for 10 year capital forecast	3,231



			Valves,	Valve Chamber	rs, and Curb Stop	ps		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Lorne Ave W	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave W	1977	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Lorne Ave W Lorne Ave W	1977 1978	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Lorne Ave W	1978	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Lorne Ave W	1988	35	2023	3,231	4	suggested for 10 year capital forecast	3,231
Valve Valve	Lorne Ave W	1997	35	2032 2043	3,231 3,231	13	<u>285</u> 171	-
Valve	Lorne Ave W	2008 2016	35 35	2043	3,231	24 32	171	-
Valve	Lorne Ave W	2016	35	2051	3,231	32	138	-
Valve	Lorne Ave W	2016	35	2051	3,231	32	138	-
Valve	Lorne Ave W	2016	35	2051	3,231 3,231	32	138	-
Valve Valve	Lorne Ave W Lorne Ave W	2016 2016	35 35	2051 2051	3,231	32 32	138 138	-
Valve	Lorne Ave W	2016	35	2051	3,231	32	138	-
Valve	Lorne Ave W	2016	35	2051	3,231	32	138	-
Valve	Lorne Ave W	2016	35	2051	3,231	32	138	-
Valve Valve	Lorne Ave W Lorne Ave W	2016 2016	35 35	2051 2051	3,231 3,231	32 32	138 138	-
Valve	Louise St	1923	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Louise St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Louise St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Louise St	1931	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Louise St Louise St	1931 1976	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Louise St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Louise St	2009	35	2044	3,231	25	165	-
Valve	Louise St	2009	35	2044	3,231	25	165	-
Valve Valve	Magwood Ct Maitland Ave	1979 2006	35 35	2019 2041	3,231 3,231	0 22	suggested for 10 year capital forecast	3,231
Valve	Makins St	1985	35	2020	3,231	1	suggested for 10 year capital forecast	3,231
Valve	Makins St	1985	35		3,231	1	suggested for 10 year capital forecast	3,231
Valve	Manning Ave	1940	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Maple Ave	1966	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Maple Ave Maple Ave	1966 1966	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Maple Ave	1966	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Maple Ave	1966	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Maple Ave	1975	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Maple Ave Maple Ave	1975 1975	35 35		3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Maple Ave	1975	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Maple Ave	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve	Maple Ave	1992	35		3,231 3,231	8	suggested for 10 year capital forecast	3,231
Valve Valve	Market Pl Market Pl	1964 1964	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Market PI	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Market PI	2017	35	2052	3,231	33	135	-
Valve	Market PI	2017	35	2052	3,231	33	135	-
Valve Valve	Martin St Matilda St	1956 1968	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231 3,231
Valve	Matilda St	1968	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231
Valve	Matilda St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Matilda St	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve Valve	Matilda St Matilda St	1991 1991	35 35	2026 2026	3,231 3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Matilda St	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Matilda St	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Matilda St	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Matilda St	2000	35	2035	3,231	16	238	-
Valve Valve	Matilda St Mayberry Pl	2015 1968	35 35	2050 2019	3,231 3,231	31 0	suggested for 10 year capital forecast	3,231
Valve	Mccarthy Rd E	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Mccarthy Rd E	2010	35	2045	3,231	26	161	-
Valve	Mccarthy Rd E	2010	35	2045	3,231	26	161	-
Valve Valve	Mccarthy Rd E	2010 1976	35 35	2045 2019	3,231 3,231	26 0	161	2 224
Valve	Mccarthy Rd W Mccarthy Rd W	1976	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Mccarthy Rd W	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Mccarthy Rd W	1976	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Mccarthy Rd W	1976	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Mccarthy Rd W Mccarthy Rd W	1976 1976	35 35		3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Mccarthy Rd W	1987	35		3,231	3	suggested for 10 year capital forecast	3,231
Valve	Mccarthy Rd W	1987	35		3,231	3	suggested for 10 year capital forecast	3,231



	Valves, Valve Chambers, and Curb Stops									
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast		
Valve Valve	Mccarthy Rd W Mccarthy Rd W	2007	35 35	2042 2042	3,231 3,231	23 23	177 177	-		
Valve	Mcdonald St	1956	35	2042	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mcdonald St	1956	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mcfarlane St	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mcfarlane St	1968	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Mcfarlane St Mcfarlane St	1968 2002	35 35	2019 2037	3,231	0 18	suggested for 10 year capital forecast 216	3,231		
Valve	Mcgregor St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231		
Valve	Mcgregor St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231		
Valve	Mcgregor St	1990	35	2025	3,231	6	suggested for 10 year capital forecast	3,231		
Valve	Mckenzie St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231		
Valve Valve	Mckenzie St Mcmanus Rd	1994 1999	35 35	2029 2034	3,231 3,231	10 15	suggested for 10 year capital forecast 251	3,231		
Valve	Mcmanus Rd	2000	35	2034	3,231	16	238	-		
Valve	Mcnab St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mcnab St	2003	35	2038	3,231	19	206	-		
Valve	Mcnab St	2003	35	2038	3,231	19	206	-		
Valve	Mogueen Ct	1992	35	2027	3,231 3,231	8	suggested for 10 year capital forecast	3,231		
Valve Valve	Meighen Mews Mercer St	1976 1931	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Mercer St	1946	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mercer St	1959	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mercer St	2003	35	2038	3,231	19	206	-		
Valve	Mercer St	2009	35	2044	3,231	25	165	-		
Valve Valve	Mercer St Mercer St	2013	35 35	2048 2048	3,231 3,231	29 29		- -		
Valve	Milton St	2000	35	2035	3,231	16	238	-		
Valve	Milton St	2000	35	2035	3,231	16	238	-		
Valve	Milton St	2000	35	2035	3,231	16	238	-		
Valve	Milton St	2000	35	2035	3,231	16	238	-		
Valve Valve	Moderwell St  Moderwell St	1965 1989	35 35		3,231 3,231	0 5	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Monteith Ave	2002	35		3,231	18	216	-		
Valve	Monteith Ave	2002	35		3,231	18	216	-		
Valve	Monteith Ave	2002	35		3,231	18	216	-		
Valve	Monteith Ave	2003	35		3,231	19	206	-		
Valve Valve	Monteith Ave Monteith Ave	2003 2003	35 35		3,231 3,231	19 19	206 206	-		
Valve	Moore St	2003	35		3,231	16	238	-		
Valve	Moore St	2000	35		3,231	16	238	-		
Valve	Morenz Dr	1951	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Morgan St	1991	35		3,231	7	suggested for 10 year capital forecast	3,231		
Valve Valve	Morgan St Morison St	1991 1956	35 35	2026 2019	3,231 3,231	7 0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Morison St	1958	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1963	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1963	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Mornington St  Mornington St	1963 1964	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Mornington St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1970	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1970	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1970	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Mornington St  Mornington St	1970 1970	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Mornington St	1970	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1971	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1971	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1971	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231		
Valve Valve	Mornington St  Mornington St	1972 1972	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Mornington St	1972	35	2019	3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mornington St	1999	35	2034	3,231	15	251	-		
Valve	Mornington St	1999	35	2034	3,231	15	251	-		
Valve	Mornington St	1999	35	2034	3,231	15	251	-		
Valve	Mornington St	2017	35 35	2052	3,231 3,231	33	135	2 004		
Valve Valve	Mowat St  Mowat St	1920 1931	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231		
Valve	Mowat St	1931	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mowat St	1965	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mowat St	1965	35		3,231	0	suggested for 10 year capital forecast	3,231		
Valve	Mowat St	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231		



	Valves, Valve Chambers, and Curb Stops								
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast	
Valve Valve	Mowat St Mowat St	2009	35 35	2044 2044	3,231 3,231	25 25	165 165	-	
Valve	Murray Hill Rd	1971	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Murray Hill Rd Neal Ave	2000 1965	35 35	2035 2019	3,231	16 0	238 suggested for 10 year capital forecast	3,231	
Valve	Neal Ave	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Neal Ave	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Neal Ave Neal Ave	1979 1979	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Neal Ave	1979	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Nelson St	1915	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Nelson St	1923	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Nelson St Nelson St	1964 1979	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Nelson St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231	
Valve	Nelson St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231	
Valve	Nelson St	1992	35	2027	3,231 3,231	8	suggested for 10 year capital forecast	3,231	
Valve Valve	Nelson St Nelson St	1994 2007	35 35	2029 2042	3,231	10 23	suggested for 10 year capital forecast 177	3,231	
Valve	Nelson St	2007	35	2042	3,231	23	177	-	
Valve	Nelson St	2007	35	2042	3,231	23	177	-	
Valve	Nelson St	2007	35	2042	3,231 3,231	23	177	-	
Valve Valve	Nelson St Nelson St	2007	35 35	2042	3,231	23 23	177 177	-	
Valve	Nelson St	2007	35	2042	3,231	23	177	-	
Valve	Nethercott Dr	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Nethercott Dr	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Nightingale PI Nightingale PI	1991 1991	35 35	2026 2026	3,231 3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Nightingale PI	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231	
Valve	Nile St	1915	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Nile St	1915	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Nile St	1928 1930	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Nile St	1930	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Nile St	1930	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Nile St	1930	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Nile St Nile St	1930 1931	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Nile St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Nile St	1996	35	2031	3,231	12	306	-	
Valve	Nile St	1996	35	2031	3,231	12	306	-	
Valve Valve	Nile St Nile St	1996 1996	35 35	2031	3,231 3,231	12 12	306 306	-	
Valve	Nile St	2000	35	2035	3,231	16	238	-	
Valve	Nile St	2013	35	2048	3,231	29	148	-	
Valve	Norfolk St	1922	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Norfolk St Norfolk St	1922 1924	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Norfolk St	1954	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Norfolk St	1954	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Norfolk St	1959	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Norman St Norman St	1914 1919	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Norman St	1919	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Norman St	1919	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Norman St Norman St	1920 1920	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Norman St	1966	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231	
Valve	Norman St	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Norman St	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Norman St	1966	35 35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231	
Valve Valve	Norman St Norman St	1985 1997	35	2020 2032	3,231	13	suggested for 10 year capital forecast 285	3,231	
Valve	Norman St	2005	35	2040	3,231	21	190	-	
Valve	Norman St	2010	35	2045	3,231	26	161	-	
Valve	Norman St	2010	35	2045	3,231 3,231	26	161	-	
Valve Valve	Norman St Norman St	2010 2010	35 35	2045 2045	3,231	26 26	161 161	-	
Valve	Norman St	2010	35	2045	3,231	26	161	-	
Valve	Normandy Dr	1946	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Normandy Dr	1946	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Normandy Dr Nornabell Ct	2003 2004	35 35	2038 2039	3,231 3,231	19 20	206 198	-	
Valve	INOMADEN C			2000			190	-	



			Valves,	Valve Chambe	rs, and Curb Sto	ps		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	North Pointe Dr	2004	35	2039	3,231	20	198	-
Valve Valve	North St Northway Crcl	1977 1989	35 35	2019 2024	3,231 3,231	0 5	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Norwood Ct	1989	35	2024	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Norwood Ct	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Norwood Ct	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Norwood Ct	1988	35	2023	3,231	4	suggested for 10 year capital forecast	3,231
Valve	Norwood Ct	1988	35	2023	3,231 3,231	4	suggested for 10 year capital forecast	3,231
Valve Valve	Oak St Oak St	1966 1966	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Oak St	1973	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Oak St	1973	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Oak St	2008	35	2043	3,231	24	171	-
Valve	Oak St	2008	35	2043	3,231	24	171	-
Valve Valve	Oakdale Ave Oakdale Ave	1991 1991	35 35	2026 2026	3,231 3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Oakdale Ave	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Oakdale Ave	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Oakdale Ave	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Oakdale Ave	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Oakdale Ave	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve Valve	Oakdale Ave Old Rotary Arena	1991 1947	35 35	2026 2019	3,231 3,231	7 0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	O'Loane Ave	1988	35	2023	3,231	4	suggested for 10 year capital forecast	3,231
Valve	O'Loane Ave	1989	35	2024	3,231	5	suggested for 10 year capital forecast	3,231
Valve	O'Loane Ave	1989	35	2024	3,231	5	suggested for 10 year capital forecast	3,231
Valve	O'Loane Ave	2004	35	2039	3,231	20	198	-
Valve	O'Loane Ave	2004	35	2039	3,231 3,231	20	198	-
Valve Valve	O'Loane Ave O'Loane Ave	2004 2004	35 35	2039	3,231	20 20	198 198	-
Valve	O'Loane Ave	2004	35	2039	3,231	20	198	-
Valve	O'Loane Ave	2004	35	2039	3,231	20	198	-
Valve	O'Loane Ave	2004	35	2039	3,231	20	198	-
Valve	O'Loane Ave	2004	35	2039	3,231	20	198	-
Valve Valve	O'Loane Ave O'Loane Ave	2004 2009	35 35	2039 2044	3,231 3,231	20 25	198 165	-
Valve	O'Loane Ave	2009	35	2044	3,231	25	165	-
Valve	O'Loane Ave	2009	35	2044	3,231	25	165	-
Valve	O'Loane Ave	2009	35	2044	3,231	25	165	-
Valve	O'Loane Ave	2009	35	2044	3,231	25	165	-
Valve	O'Loane Ave	2009	35 35	2044	3,231 3,231	25	165 165	-
Valve Valve	O'Loane Ave O'Loane Ave	2009	35	2044	3,231	25 25	165	-
Valve	O'Loane Ave	2016	35	2051	3,231	32	138	-
Valve	O'Loane Ave	2016	35	2051	3,231	32	138	-
Valve	Ontario St	1919	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1919	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Ontario St Ontario St	1931 1931	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Ontario St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1935	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1935	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Ontario St Ontario St	1935 1966	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Ontario St	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1966	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Ontario St Ontario St	1966 1966	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1966	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Ontario St	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1967	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Ontario St	1968 1968	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Ontario St Ontario St	1968 1968	35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Ontario St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve	Ontario St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231



			Valves,	Valve Chambei	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Ontario St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve Valve	Ontario St Ontario St	1992 1992	35 35	2027 2027	3,231 3,231	8	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231
Valve	Ontario St	2001	35	2027	3,231	17	226	3,231
Valve	Ontario St	2003	35	2038	3,231	19	206	-
Valve	Ontario St	2008	35	2043	3,231	24	171	-
Valve Valve	Ontario St Ontario St	2008	35 35	2043 2043	3,231 3,231	24 24	<u>171</u> 171	-
Valve	Oxford St	1957	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Oxford St	1957	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Oxford St	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Oxford St Oxford St	1965 2017	35 35	2019 2052	3,231 3,231	33	suggested for 10 year capital forecast 135	3,231
Valve	Oxford St	2017	35	2052	3,231	33	135	-
Valve	Oxford St	2017	35	2052	3,231	33	135	-
Valve	Oxford St	2017	35	2052	3,231 3,231	33	135	-
Valve Valve	Oxford St Packham Ave	2017 1969	35 35	2052 2019	3,231	33 0	135 suggested for 10 year capital forecast	3,231
Valve	Packham Ave	1969	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Packham Ave	1969	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Packham Ave Packham Ave	1997 1997	35 35	2032 2032	3,231 3,231	13 13	285 285	-
Valve	Packham Ave	1997	35	2032	3,231	13	285	-
Valve	Packham Ave	1997	35	2032	3,231	13	285	-
Valve	Packham Ave	1997	35	2032	3,231	13	285	-
Valve Valve	Packham Ave Packham Rd	1997 2009	35 35	2032 2044	3,231 3,231	13 25	285 165	-
Valve	Park Lane Dr	1967	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Park Lane Dr	1971	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Park Lane Dr	1971	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Park St Park St	1968 1968	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Park St	1968	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Park St	1993	35		3,231	9	suggested for 10 year capital forecast	3,231
Valve	Park St	1993	35		3,231 3,231	9	suggested for 10 year capital forecast	3,231
Valve Valve	Park St Parkview Dr	1993 2008	35 35		3,231	9 24	suggested for 10 year capital forecast	3,231
Valve	Patricia Rd	1968	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Patricia Rd	1968	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Patricia Rd Patricia Rd	1968 1973	35 35		3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Patricia Rd	1973	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Patricia Rd	1973	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Patricia Rd	1974	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Perth Line 36 Perth St	2017 1931	35 35		3,231	33 0	suggested for 10 year capital forecast	3,231
Valve	Perth St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Perth St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Pine St Pine St	1924 1968	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Pine St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Player St	1945	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Player St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Player St Pleasant Dr	1964 1954	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Pleasant Dr	1954	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Pleasant Dr	1954	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Polley Pl	1978	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Portia Blvd Portia Blvd	1947 2000	35 35	2019 2035	3,231 3,231	0 16	suggested for 10 year capital forecast 238	3,231
Valve	Preston St	2006	35	2041	3,231	22	183	-
Valve	Princess St	1924	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Princess St	1952	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Princess St  Queen St	1952 1906	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Queen St	1915	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Queen St	1915	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Queen St	1915 1915	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Queen St Queen St	1915	35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Queen St	1924	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Queen St	1924	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
		1006	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Queen St Queen St	1926 1926	35		3,231	0	suggested for 10 year capital forecast	3,231



			Valves,	Valve Chamber	rs, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Queensland Rd	1977	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Queensland Rd	1977	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Queensland Rd Queensland Rd	1977 1977	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Queensland Rd	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Queensland Rd	2009	35	2044	3,231	25	165	-
Valve Valve	Railway Ave	1910	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve	Railway Ave Railway Ave	1916 1924	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Railway Ave	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Railway Ave	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Railway Ave	1964	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Railway Ave Railway Ave	1964 1991	35 35	2019 2026	3,231	7	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Railway Ave	1991	35	2026	3,231	7	suggested for 10 year capital forecast	3,231
Valve	Railway Ave	2007	35	2042	3,231	23	177	-
Valve	Railway Ave	2007	35	2042	3,231	23	177	-
Valve	Railway Ave	2007	35	2042	3,231 3,231	23	177	-
Valve Valve	Railway Ave Railway Ave	2007	35 35	2042 2042	3,231	23 23	<u>177</u> 177	-
Valve	Railway Ave	2007	35	2042	3,231	23	177	-
Valve	Railway Ave	2011	35	2046	3,231	27	156	
Valve	Railway Ave	2011	35	2046	3,231	27	156	
Valve Valve	Railway Ave Railway Ave	2011	35 35	2046 2046	3,231 3,231	27 27	<u>156</u> 156	
Valve	Rankin St	1946	35	2040	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Rankin St	2003	35	2038	3,231	19	206	
Valve	Rebecca St	1986	35	2021	3,231	2	suggested for 10 year capital forecast	3,231
Valve	Rebecca St	1986	35	2021	3,231 3,231	2	suggested for 10 year capital forecast	3,231
Valve Valve	Rebecca St Redford Cres	1996 1959	35 35	2031 2019	3,231	12 0	306 suggested for 10 year capital forecast	3,231
Valve	Redford Cres	1964	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Redford Cres	1964	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Redford Cres	1964	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Redford Cres Redford Cres	1964 1964	35 35		3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Redford Cres	1964	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Redford Cres	1965	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Redford Cres	1965	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Redford Cres	1965 1925	35 35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Regent St Regent St	1925	35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Regent St	1991	35		3,231	7	suggested for 10 year capital forecast	3,231
Valve	Regent St	1991	35		3,231	7	suggested for 10 year capital forecast	3,231
Valve	Regent St	1991	35	2026	3,231 3,231	7	suggested for 10 year capital forecast	3,231
Valve Valve	Regent St Regent St	2005 2005	35 35	2040 2040	3,231	21 21		-
Valve	Regent St	2017	35	2052	3,231	33	135	_
Valve	Riehl Ct	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo Control Centre	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Romeo Control Centre Romeo Control Centre	1964 1968	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Romeo Control Centre	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo Control Centre	1997	35	2032	3,231	13	285	
Valve	Romeo Control Centre	1997	35	2032	3,231	13	285	
Valve	Romeo Control Centre	1997	35	2032	3,231 3,231	13	285	-
Valve Valve	Romeo Control Centre Romeo St N	1997 1964	35 35	2032 2019	3,231	13 0	285 suggested for 10 year capital forecast	3,231
Valve	Romeo St N	1998	35	2033	3,231	14	267	-
Valve	Romeo St N	1998	35	2033	3,231	14	267	-
Valve	Romeo St N	1998	35	2033	3,231	14	267	-
Valve Valve	Romeo St N Romeo St N	1998 1998	35 35	2033 2033	3,231 3,231	14 14	267 267	-
Valve	Romeo St N	1998	35	2033	3,231	14	267	-
Valve	Romeo St N	1998	35	2033	3,231	14	267	-
Valve	Romeo St N	1998	35	2033	3,231	14	267	-
Valve	Romeo St N	2005	35	2040	3,231 3,231	21	190	-
Valve Valve	Romeo St N Romeo St N	2005 2005	35 35	2040 2040	3,231	21 21	190 190	-
Valve	Romeo St N	2006	35		3,231	22	183	-
Valve	Romeo St N	2006	35	2041	3,231	22	183	
Valve	Romeo St S	1914	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S Romeo St S	1914 1914	35 35		3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve		1 1914	, <u>ა</u> ა	2019	5,251	U	suggested for to year capital forecast	ı ა,∠ა⊺



			varves,	vaive Chamber	s, and Curb Stop	<i>J</i> S		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Romeo St S	1954	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1954	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1957	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Romeo St S Romeo St S	1964 1964	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Romeo St S	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1968	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Romeo St S Romeo St S	1968 1968	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Romeo St S	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1968	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Romeo St S Romeo St S	1968 1968	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Romeo St S	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1975	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1980	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1980	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Romeo St S Romeo St S	1980 1993	35 35	2019 2028	3,231	9	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Romeo St S	1993	35	2028	3,231	9	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1993	35	2028	3,231	9	suggested for 10 year capital forecast	3,231
Valve	Romeo St S	1996	35	2031	3,231	12	306	-
Valve	Romeo St S	1996	35	2031	3,231	12	306	
Valve Valve	Romeo St S Ross St	2003 1922	35 35	2038 2019	3,231 3,231	19 0	206 suggested for 10 year capital forecast	3,231
Valve	Russell Dr	2010	35	2045	3,231	26	161	- 3,231
Valve	Rutherford Dr	2006	35		3,231	22	183	-
Valve	Rutherford Dr	2006	35	2041	3,231	22	183	-
Valve	Rutherford Dr	2006	35	2041	3,231	22	183	-
Valve	Sargint St	1976	35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Sargint St Sargint St	1976 1976	35 35	2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Sargint St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Scott St	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Scott St	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Scott St	1976	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Scott St Scott St	1976 1977	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Scott St	1980	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Shakespeare St	1924	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Shakespeare St	1930	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Shakespeare St	1930	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Shakespeare St	2013	35 35	2048 2048	3,231 3,231	29 29	148	
Valve	Shakespeare St Shakespeare St	2013	35	2048	3,231	29	148	
Valve	Shakespeare St	2013	35	2048	3,231	29	148	
Valve	Sharman St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Sharman St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Shrewsbury St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve Valve	Shrewsbury St Silcox PI	1997 1987	35 35	2032 2022	3,231 3,231	13 3	285 suggested for 10 year capital forecast	3,231
Valve	Simcoe St	1907	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Simcoe St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Sir Adam Beck Rd	2004	35	2039	3,231	20	198	-
Valve	Sir Adam Beck Rd	2004	35	2039	3,231	20	198	
Valve Valve	Sir Adam Beck Rd Sir Adam Beck Rd	2004	35 35	2039 2039	3,231 3,231	20 20	198 198	
Valve	Sir Adam Beck Rd	2004	35	2039	3,231	20	198	
Valve	Sir Adam Beck Rd	2004	35	2039	3,231	20	198	
Valve	Sir Adam Beck Rd	2004	35	2039	3,231	20	198	-
Valve	Sir Adam Beck Rd	2004	35	2039	3,231	20	198	-
Valve	Smith St	2015	35	2050	3,231 3,231	31	141	- 0.001
Valve Valve	Somerset St Somerset St	1953 1953	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
	Somerset St	1965	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve							· · · · · · · · · · · · · · · · · · ·	
	St. Andrew St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve Valve	St. Andrew St St. Andrew St	1931	35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve Valve								



			Valves,	Valve Chambe	rs, and Curb Stop	ps		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	St. Andrew St	2015	35	2050	3,231	31	141	-
Valve	St. Andrew St	2015	35	2050	3,231	31	141	-
Valve Valve	St. David St St. David St	1931 1979	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	St. David St	1979	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	St. David St	1979	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	St. David St	1979	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	St. David St St. David St	1979 1979	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	St. David St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	St. David St	1997	35	2032	3,231	13	285	
Valve	St. David St	1997	35 35	2032	3,231 3,231	13	285	
Valve Valve	St. David St St. David St	2005	35	2040 2043	3,231	21 24		-
Valve	St. Patrick St	1939	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	St. Patrick St	1939	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	St. Patrick St	1939	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	St. Patrick St St. Patrick St	1939 1939	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	St. Patrick St	2005	35	2040	3,231	21	190	
Valve	St. Patrick St	2005	35	2040	3,231	21	190	
Valve Valve	St. Patrick St	2005 2006	35 35	2040 2041	3,231 3,231	21 22	190 183	
Valve	St. Patrick St St. Patrick St	2006	35	2041	3,231	22	183	
Valve	St. Patrick St	2006	35	2041	3,231	22	183	
Valve	St. Patrick St	2010	35	2045	3,231	26	161	-
Valve	St. Patrick St	2010	35	2045	3,231 3,231	26	161	-
Valve Valve	St. Patrick St St. Patrick St	2010	35 35	2045 2045	3,231	26 26	161 161	-
Valve	St. Patrick St	2010	35	2045	3,231	26	161	-
Valve	St. Patrick St	2010	35	2045	3,231	26	161	-
Valve	St. Patrick St	2011	35	2046	3,231 3,231	27	156	
Valve Valve	St. Vincent St N St. Vincent St N	1992 1992	35 35	2027 2027	3,231	8	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	St. Vincent St N	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve	St. Vincent St N	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve Valve	St. Vincent St N St. Vincent St N	1992 1992	35 35	2027 2027	3,231 3,231	8	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	St. Vincent St N	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve	St. Vincent St N	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve	St. Vincent St S	1918	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	St. Vincent St S St. Vincent St S	1918 1918	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	St. Vincent St S	1953	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	St. Vincent St S	1954	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	St. Vincent St S	1959	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	St. Vincent St S St. Vincent St S	1965 1965	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	St. Vincent St S	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	St. Vincent St S	1965	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	St. Vincent St S	1968	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	St. Vincent St S St. Vincent St S	1968 1968	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	St. Vincent St S	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	St. Vincent St S	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	St. Vincent St S	1991	35	2026	3,231 3,231	7	suggested for 10 year capital forecast	3,231
Valve Valve	St. Vincent St S St. Vincent St S	1991 1994	35 35	2026 2029	3,231	7 10	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	St. Vincent St S	1996	35	2031	3,231	12	306	
Valve	St. Vincent St S	1996	35	2031	3,231	12	306	
Valve	St. Vincent St S	1996	35	2031	3,231 3,231	12 12	306	
Valve Valve	St. Vincent St S St. Vincent St S	1996 1997	35 35	2031 2032	3,231	12	306 285	
Valve	St. Vincent St S	1997	35	2032	3,231	13	285	
Valve	St. Vincent St S	1997	35	2032	3,231	13	285	-
Valve	St. Vincent St S	2006	35	2041	3,231 3,231	22 0	183	
Valve Valve	Strachan St Strachan St	1931 1931	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Strachan St	1955	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Strachan St	1955	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Strachan St	2009	35		3,231 3,231	25 25	165	
Valve Valve	Strachan St Strachan St	2009 2014	35 35		3,231	25 30	165 144	-
Valve	Strachan St	2014	35		3,231	30	144	-
Valve	Stratford St	1979	35		3,231	0	suggested for 10 year capital forecast	3,231



			Valves,	Valve Chambei	s, and Curb Stop	os		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	Stratford St	1994	35	2029	3,231	10	suggested for 10 year capital forecast	3,231
Valve	Sutter St	1988	35		3,231 3,231	4	suggested for 10 year capital forecast	3,231
Valve Valve	Sutter St Taylor St	1988 1921	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Taylor St	1921	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Taylor St	1922	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Taylor St	1931	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Thomas St	2010	35		3,231 3,231	26	161	-
Valve Valve	Trinity St Trinity St	2005 2005	35 35		3,231	21 21	190 190	-
Valve	Trinity St	2005	35		3,231	21	190	-
Valve	Trow Ave	1907	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Trow Ave	1907	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Tweedsmuir PI	1968	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300046	1994	35		3,231 3,231	10 7	suggested for 10 year capital forecast	3,231
Valve Valve	Valve -350300140 Valve -350300193	1991 1946	35 35		3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Valve -350300194	1946	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300269	1993	35		3,231	9	suggested for 10 year capital forecast	3,231
Valve	Valve -350300270	1993	35		3,231	9	suggested for 10 year capital forecast	3,231
Valve	Valve -350300271	1993	35		3,231 3,231	9	suggested for 10 year capital forecast	3,231
Valve Valve	Valve -350300272 Valve -350300273	1993 1993	35 35		3,231	9	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Valve -350300274	1993	35		3,231	9	suggested for 10 year capital forecast	3,231
Valve	Valve -350300333	1964	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300385	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300388	1906	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Valve -350300402 Valve -350300454	1931 1960	35 35		3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231
Valve	Valve -350300454	1965	35		3,231	0	suggested for 10 year capital forecast	3,231 3,231
Valve	Valve -350300478	1957	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300493	1997	35	2032	3,231	13	285	-
Valve	Valve -350300497	1924	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300556	1992	35		3,231 3,231	8	suggested for 10 year capital forecast	3,231
Valve Valve	Valve -350300557 Valve -350300558	1992 1964	35 35		3,231	8	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Valve -350300570	1991	35		3,231	7	suggested for 10 year capital forecast	3,231
Valve	Valve -350300577	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231
Valve	Valve -350300578	1992	35		3,231	8	suggested for 10 year capital forecast	3,231
Valve	Valve -350300586	1991	35		3,231 3,231	7	suggested for 10 year capital forecast	3,231
Valve Valve	Valve -350300637 Valve -350300642	1961 1993	35 35		3,231	9	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Valve -350300643	1969	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300665	1969	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300666	1969	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300688	1964	35		3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Valve -350300689 Valve -350300690	1996 1996	35 35		3,231	12 12	306 306	-
Valve	Valve -350300691	1996	35		3,231	12	306	-
Valve	Valve -350300692	1987	35		3,231	3	suggested for 10 year capital forecast	3,231
Valve	Valve -350300706	1922	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300721	1968	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Valve -350300742 Valve -350300753	1988 1987	35 35		3,231 3,231	3	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Valve -350300753	1987	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300780	1966	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300791	1926	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300816	1987	35		3,231	3	suggested for 10 year capital forecast	3,231
Valve	Valve -350300876	1994	35		3,231 3,231	10	suggested for 10 year capital forecast	3,231
Valve Valve	Valve -350300877 Valve -350300878	1994 1994	35 35		3,231	10 10	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Valve -350300876	1956	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300920	1926	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350300961	1990	35		3,231	6	suggested for 10 year capital forecast	3,231
Valve	Valve -350300962	1990	35		3,231 3,231	6	suggested for 10 year capital forecast	3,231
Valve Valve	Valve -350300963 Valve -350300973	1990 1976	35 35		3,231	6	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Valve -350300973 Valve -350300990	1976	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350301018	1961	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350301058	1965	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350301059	1965	35		3,231	0	suggested for 10 year capital forecast	3,231
Valve	Valve -350301075	2005	35		3,231 3,231	21	190	-
Valve	Valve -350301080	2006	35 35		3,231	22 20	183 198	-
Valve	Valve -350301103	2004	45	70.59	0.201			-



Wide				Valves,	Valve Chambe	rs, and Curb Stop	os		
Value         Value - 505001161         1998         35         2003         3,221         1.4         Suggested for 10 year capture for the law of the second for 10 year capture for the law of the second for 10 year capture for the law of the second for 10 year capture for the law of the second for 10 year capture for the law of the law of the second for 10 year capture for the law of the law o	Asset	Street				Replacement		Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Value							1	suggested for 10 year capital forecast 267	3,231
September   Sept							1	suggested for 10 year capital forecast	3,231
Symbol         Value - 580091204         1998         36         2033         3.241         1.4           Value         Value - 580391209         1991         36         2003         3.241         1.4           Value         Value - 580391209         1991         36         2002         3.241         7         auggested for 10 year cental for 10 year cen								190	-
Value									-
Value   Value - 930901244   9997   38   2028   3-231   9   suggested for 10 year capital is Value   Value - 930901208   1993   36   2028   3-231   9   suggested for 10 year capital is Value   Value - 930901200   1993   36   2028   3-231   9   suggested for 10 year capital is Value   Value - 930901210   1993   36   2028   3-231   9   suggested for 10 year capital is Value   Value - 930901212   1978   35   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901312   1978   35   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901314   1922   35   2010   3-231   0   suggested for 10 year capital is Value   Value - 930901314   1922   35   2010   3-231   0   suggested for 10 year capital is Value   Value - 930901319   1966   36   2010   3-231   0   suggested for 10 year capital is Value   Value - 930901319   1966   36   2010   3-231   0   suggested for 10 year capital is Value   Value - 930901319   1966   36   2010   3-231   0   suggested for 10 year capital is Value   Value - 930901319   1968   36   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901319   1968   36   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901440   1968   36   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901440   1968   36   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901440   2010   36   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901440   2010   36   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901440   2010   36   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901440   2010   36   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901440   2010   36   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901440   2010   36   2019   3-231   0   suggested for 10 year capital is Value   Value - 930901411   30   30   30   30   30   30   30								267	-
Value								suggested for 10 year capital forecast	3,231
Value   Value - 50001169   1990   35   2028   3,221   9   supposed for 10 year capability   Value   Value - 50001169   1978   35   2019   3,221   0   supposed for 10 year capability   Value   Value - 50001161   1978   35   2019   3,221   0   supposed for 10 year capability   Value   Value - 50001161   1978   35   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001161   1978   35   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001161   1978   35   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001161   1978   35   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001161   1978   35   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001186   1970   36   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001186   1970   36   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001186   1970   36   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001186   1970   36   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001186   1970   36   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001186   1970   36   2019   3,221   0   supposed for 10 year capability   Value   Value - 500001186   1970   36   2024   3,221   16   supposed for 10 year capability   Value   Value - 500001186   1970   197								suggested for 10 year capital forecast	3,231
Valve         Valve         Common Description         1993         35         2028         3.231         8         suggested for 10 year capital it Valve         Valve <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>suggested for 10 year capital forecast</td> <td>3,231 3,231</td>			1					suggested for 10 year capital forecast	3,231 3,231
Value							9	suggested for 10 year capital forecast	3,231
Value         Value         350,001131         1922         35         2019         3.221         0         suggested for 10 year capalit & Value           Value         Value         350,001131         1952         35         2019         3.221         0         suggested for 10 year capalit & Value         350,001131         98         36         2019         3.221         0         suggested for 10 year capalit & Value         350,001131         98         32         2019         3.221         0         suggested for 10 year capalit & Value         350,001131         98         2019         3.221         0         suggested for 10 year capalit & Value         350,001131         1950         35         2019         3.221         0         suggested for 10 year capalit & Value         350,001141         1950         35         2019         3.221         0         suggested for 10 year capalit & Value         350,001141         1950         35         2019         3.221         0         suggested for 10 year capalit & Value         350,001141         1950         35         2019         3.221         0         suggested for 10 year capalit & Value         350,001141         350         2019         3.221         0         suggested for 10 year capalit & Value         350,00114         350         350						-	<del>                                     </del>	suggested for 10 year capital forecast	3,231
Value							<del>                                     </del>	7 1	3,231 3,231
Value							t	suggested for 10 year capital forecast	3,231
Value	Valve	Valve -350301318						suggested for 10 year capital forecast	3,231
Value								suggested for 10 year capital forecast	3,231
Valve         Valve 30001481         1958         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Valve 30001494         2000         36         2019         3.231         16         suggested for 10 year capital for Valve           Valve         Valve 350001494         2000         36         2008         3.231         16         suggested for 10 year capital for Valve           Valve         Valve 350001496         1969         36         2004         3.231         5         suggested for 10 year capital for Valve           Valve         Valve 350001692         1969         36         2004         3.231         5         suggested for 10 year capital for Valve           Valve         Valve 350001711         1964         36         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Valve 350001712         2007         36         2042         3.231         23           Valve         Valve 350001720         2007         36         2042         3.231         23           Valve         Valve 350001732         1931         36         2019         3.231         0         suggested for 10 year capital for Valve Avalve 350001742 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>suggested for 10 year capital forecast</td> <td>3,231 3,231</td>								suggested for 10 year capital forecast	3,231 3,231
Valve				35			<del>                                     </del>	suggested for 10 year capital forecast	3,231
Value							t	suggested for 10 year capital forecast	3,231
Value								euggested for 10 year capital forecast	3,231
Valhe Valhe 350301783								suggested for 10 year capital forecast	3,231
Valve	Valve	Valve -350301692	1989		2024		5	suggested for 10 year capital forecast	3,231
Valie								suggested for 10 year capital forecast	3,231
Valve         Valve         360301720         2007         35         2042         3.231         23           Valve         Valve         360301721         2007         35         2042         3.231         23           Valve         Valve         360301732         1991         3.231         0         suggested for 10 year capital for 10 year capita							t	suggested for 10 year capital forecast	3,231
Valve         Valve         250301732         1931         36         2019         3.231         0         suggested for 10 year capital fit Valve         Valve         Volve         Valve         \$50301733         1984         36         2019         3.231         0         suggested for 10 year capital fit Valve         Valve         \$50301738         1984         36         2019         3.231         0         suggested for 10 year capital fit Valve         Valve         \$50301738         1984         35         2019         3.231         0         suggested for 10 year capital fit Valve         Valve         \$50301740         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve         Valve         \$50301741         1968         35         2019         3.231         0         suggested for 10 year capital fit Valve         Valve         \$50301741         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve         Valve         \$50301743         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve         Valve         Valve         Valve         \$50301743         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve								177	-
Valve         Valve - \$50301733         1964         35         2019         3.231         0         suggested for 10 year capital fr. Valve         Valve         Valve \$50301737         1964         35         2019         3.231         0         suggested for 10 year capital fr. Valve         Valve \$50301739         1964         35         2019         3.231         0         suggested for 10 year capital fr. Valve         Valve \$50301740         1964         35         2019         3.231         0         suggested for 10 year capital fr. Valve         Valve \$50301740         1968         35         2019         3.231         0         suggested for 10 year capital fr. Valve         Valve \$50301742         1968         35         2019         3.231         0         suggested for 10 year capital fr. Valve         Valve \$50301742         1964         35         2019         3.231         0         suggested for 10 year capital fr. Valve         Valve \$50301742         1964         35         2019         3.231         0         suggested for 10 year capital fr. Valve         Valve \$50301744         1964         35         2019         3.231         0         suggested for 10 year capital fr. Valve         Valve Valve \$50301744         1964         35         2019         3.231         0         suggested for 10 year capital fr. Valve         Valve Val	Valve							177	-
Valve         Valve - 360301737         1964         35         2019         3,231         0         suggested for 10 year capital fr.           Valve         Valve - 360301738         1968         35         2019         3,231         0         suggested for 10 year capital fr.           Valve         Valve - 360301740         1964         35         2019         3,231         0         suggested for 10 year capital fr.           Valve         Valve - 360301741         1964         35         2019         3,231         0         suggested for 10 year capital fr.           Valve         Valve - 360301742         1964         35         2019         3,231         0         suggested for 10 year capital fr.           Valve         Valve - 360301743         1964         35         2019         3,231         0         suggested for 10 year capital fr.           Valve         Valve - 360301744         1964         35         2019         3,231         0         suggested for 10 year capital fr.           Valve         Valve - 360301744         1964         35         2019         3,231         0         suggested for 10 year capital fr.           Valve         Valve - 360301744         1964         35         2019         3,231         0			i					suggested for 10 year capital forecast	3,231
Valve         Valve - 350301738         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve         Valve         Valve - 350301740         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve         350301740         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve         350301741         1968         35         2019         3.231         0         suggested for 10 year capital fit Valve         350301742         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve         350301744         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve         350301744         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve         350301744         1964         35         2019         3.231         0         suggested for 10 year capital fit Valve         350001744         1964         35         2039         3.231         0         suggested for 10 year capital fit Valve         350001744         1964         35         2039         3.231         0         suggested for 10 year capital fit Valve         350001743         350001743         3500017							<del>                                     </del>	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve         Valve 350301740         1964         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Valve 360301741         1968         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Valve 350301742         1964         35         2019         3.231         0         suggested for 10 year capital for Valve 350301743         1964         35         2019         3.231         0         suggested for 10 year capital for Valve         Valve         Valve 30301743         1964         35         2019         3.231         0         suggested for 10 year capital for Valve         Valve         Valve 30301744         1964         35         2019         3.231         0         suggested for 10 year capital for Valve         Valve         Valve 404         2004         35         2039         3.231         20         valve         Valve         Victoria St         1913         35         2019         3.231         0         suggested for 10 year capital for Valve         Valve         Victoria St         1913         35         2019         3.231         0         suggested for 10 year capital for Valve         Valve         Victoria St         1939         35         2024							<del>                                     </del>	suggested for 10 year capital forecast	3,231
Valve         Valve -350301741         1968         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Valve -350301742         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Valve -350301744         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Vanevery Way         2004         35         2039         3,231         20           Valve         Vanevery Way         2004         35         2039         3,231         20           Valve         Vanevery Way         2004         35         2039         3,231         20           Valve         Victoria St         1913         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1993         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1993         35         2049         3,231         5         suggested for 10 year capital for Valve           Valve         Victoria St         1993							t	suggested for 10 year capital forecast	3,231
Valve         Valve - 350301742         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Valve - 350301743         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Valve - 350301744         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Vanevery Way         2004         35         2039         3,231         20           Valve         Vanevery Way         2004         35         2039         3,231         20           Valve         Victoria St         1913         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1993         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1989         35         2024         3,231         5         suggested for 10 year capital for Valve           Valve         Vivian Line 37         1999         35         2034         3,231         15           Valve         Vivian Line 37         2006 <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>t</td> <td>suggested for 10 year capital forecast</td> <td>3,231 3,231</td>			1				t	suggested for 10 year capital forecast	3,231 3,231
Valve         Valve - 350301744         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Vanevery Way         2004         35         2039         3,231         20           Valve         Vanevery Way         2004         35         2039         3,231         20           Valve         Victoria St         1913         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1913         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1989         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1958         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Vivian Line 37         1999         35         2034         3,231         15           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>suggested for 10 year capital forecast</td> <td>3,231</td>								suggested for 10 year capital forecast	3,231
Valve         Vanevery Way         2004         35         2039         3,231         20           Valve         Vanevery Way         2004         35         2039         3,231         20           Valve         Victoria St         1913         35         2019         3,231         0         suggested for 10 year capital for 10 year capit	Valve						<del>                                     </del>	suggested for 10 year capital forecast	3,231
Valve         Vanevery Way         2004         35         2039         3,231         20           Valve         Victoria St         1913         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1993         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1988         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Viola Ct         1958         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Vivian Line 37         1999         35         2034         3,231         15           Valve         Vivian Line 37         1999         35         2034         3,231         15           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve<							1	suggested for 10 year capital forecast	3,231
Valve         Victoria St         1913         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1913         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Victoria St         1989         35         2024         3.231         5         suggested for 10 year capital for Valve           Valve         Victoria St         1988         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Vivian Line 37         1999         35         2034         3.231         15           Valve         Vivian Line 37         1999         35         2034         3.231         15           Valve         Vivian Line 37         2006         35         2041         3.231         22           Valve         Vivian Line 37         2006         35         2041         3.231         22           Valve         Vivian Line 37         2006         35         2041         3.231         22           Valve         Vivian Line 37         2006         35         2041         3.231         22           V		<u> </u>						198 198	-
Valve         Victoria St         1989         35         2024         3,231         5         suggested for 10 year capital for Valve           Valve         Viola Ct         1958         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Vivian Line 37         1999         35         2034         3,231         15           Valve         Vivian Line 37         1999         35         2034         3,231         15           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Waddell St         1952         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Walnut St         1996 <td></td> <td>· · ·</td> <td>1</td> <td></td> <td></td> <td>3,231</td> <td></td> <td>suggested for 10 year capital forecast</td> <td>3,231</td>		· · ·	1			3,231		suggested for 10 year capital forecast	3,231
Valve         Viola Ct         1958         35         2019         3.231         0         suggested for 10 year capital for Valve           Valve         Vivian Line 37         1999         35         2034         3,231         15           Valve         Vivian Line 37         1999         35         2034         3,231         15           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Waddell St         1952         35         2019         3,231         0         suggested for 10 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capital for 20 year capita								suggested for 10 year capital forecast	3,231
Valve         Vivian Line 37         1999         35         2034         3,231         15           Valve         Vivian Line 37         1999         35         2034         3,231         15           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Walder St         1952         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Walnut St         1987         35         2022         3,231         0         suggested for 10 year capital for Valve           Valve         Walnut St         1996         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Walnut St         2011								suggested for 10 year capital forecast	3,231 3,231
Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Waddell St         1952         35         2019         3,231         0         suggested for 10 year capital for 10 year						-		251	-
Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Waddell St         1952         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Waddell St         1987         35         2022         3,231         0         suggested for 10 year capital for valve           Valve         Walnut St         1930         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Walnut St         1964         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Walnut St         1964         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Walnut St         2011         35         2046         3,231         27           Valve         Walnut St         2015         35         2050         3,231         31 <td>Valve</td> <td>Vivian Line 37</td> <td>1999</td> <td>35</td> <td>2034</td> <td></td> <td></td> <td>251</td> <td>-</td>	Valve	Vivian Line 37	1999	35	2034			251	-
Valve         Vixian Line 37         2006         35         2041         3,231         22           Valve         Vixian Line 37         2006         35         2041         3,231         22           Valve         Waddell St         1952         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Waddell St         1987         35         2022         3,231         3         suggested for 10 year capital for Valve           Valve         Walnut St         1930         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Walnut St         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Walnut St         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Walnut St         2011         35         2046         3,231         27           Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walsh Cres         1996         35         2031         3,231         12			1					183	-
Valve         Vivian Line 37         2006         35         2041         3,231         22           Valve         Waddell St         1952         35         2019         3,231         0         suggested for 10 year capital for 10 year cap							1	183 183	-
Valve         Waddell St         1987         35         2022         3,231         3         suggested for 10 year capital for Valve           Valve         Walnut St         1930         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Walnut St         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Walnut St         2011         35         2046         3,231         27           Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>183</td><td>-</td></t<>							1	183	-
Valve         Walnut St         1930         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Walnut St         1964         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Walnut St         2011         35         2046         3,231         27           Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12							1	suggested for 10 year capital forecast	3,231
Valve         Walnut St         1964         35         2019         3,231         0         suggested for 10 year capital for suggested for 10 year capital for							1	suggested for 10 year capital forecast	3,231 3,231
Valve         Walnut St         1964         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Walnut St         2011         35         2046         3,231         27           Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Warwick Rd         1953         35         2019         3,231         0         suggested for 10 year capital for 10 year capital for 10 year capital for 10 year capital for 10 year capital for 10 year capital for 10 year capital for 10 year capital for 10 year capital for 10 year capital for 10 yea							t	suggested for 10 year capital forecast	3,231
Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Warwick Rd         1953         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1913         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St						3,231		suggested for 10 year capital forecast	3,231
Valve         Walnut St         2015         35         2050         3,231         31           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Warwick Rd         1996         35         2031         3,231         12           Valve         Warwick Rd         1953         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1913         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve		<u> </u>						156	-
Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Warwick Rd         1953         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1913         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         sug								141 141	-
Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Warwick Rd         1953         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1913         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for valve								306	
Valve         Walsh Cres         1996         35         2031         3,231         12           Valve         Warwick Rd         1953         35         2019         3,231         0         suggested for 10 year capital			1996	35	2031		12	306	-
Valve         Warwick Rd         1953         35         2019         3,231         0         suggested for 10 year capital for 10 year capi								306	-
Valve         Water St         1913         35         2019         3,231         0         suggested for 10 year capital for 10 year capita		<u> </u>						306 suggested for 10 year capital forecast	3,231
Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for Valve           Valve         Water St         1924         35         2019         3,231         0         suggested for 10 year capital for 10								suggested for 10 year capital forecast	3,231
Valve Water St 1924 35 2019 3,231 0 suggested for 10 year capital for							t	suggested for 10 year capital forecast	3,231
		_				· ·		suggested for 10 year capital forecast	3,231
TOTAL TOTAL	Valve Valve	Water St	1924	35			0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve Water St 1964 35 2019 3,231 0 suggested for 10 year capital for						3,231		suggested for 10 year capital forecast	3,231
								suggested for 10 year capital forecast	3,231
								suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231



Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vater St Vater St Vater St Vater St Vater St Vater St Vater St Vater St Vater St Vater St Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N	Year Installed  1977 1984 1984 2010 2010 2012 1970 1970 1970 1970 1970 2004	25timated Life 35 35 35 35 35 35 35 35 35 35 35 35 35	2019 2019 2019 2045 2045 2047 2019	Total Replacement Costs 3,231 3,231 3,231 3,231	Years until Replacement 0 0	Annual Lifecycle Contribution suggested for 10 year capital forecast suggested for 10 year capital forecast	Amount to be included in 10 year Forecast 3,231 3,231
Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vater St Vater St Vater St Vater St Vater St Vater St Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N	1984 1984 2010 2010 2012 1970 1970 1970 1970	35 35 35 35 35 35 35	2019 2019 2045 2045 2047	3,231 3,231 3,231	0	suggested for 10 year capital forecast	
Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vater St Vater St Vater St Vater St Vater St Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N	1984 2010 2010 2012 1970 1970 1970 1970	35 35 35 35 35 35	2019 2045 2045 2047	3,231 3,231		, ,	3,231
Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vater St Vater St Vater St Vater St Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N	2010 2010 2012 1970 1970 1970 1970	35 35 35 35 35	2045 2045 2047	3,231		suggested for 10 year capital forecast	2 221
Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vater St Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N	2012 1970 1970 1970 1970 1970	35 35 35	2047		26	suggested for 10 year capital forecast	3,231
Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N	1970 1970 1970 1970 1970	35 35		3,231	26	161	-
Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N	1970 1970 1970 1970	35		3,231 3,231	28	152	- 2 221
Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N Vaterloo St N	1970 1970 1970		2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vaterloo St N Vaterloo St N Vaterloo St N	1970		2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve         W           Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vaterloo St N Vaterloo St N		35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve         W           Valve         W           Valve         W           Valve         W           Valve         W	Vaterloo St N	2004	35 35	2019 2039	3,231	0 20	suggested for 10 year capital forecast 198	3,231
Valve W Valve W Valve W	Vaterloo St S	2004	35	2039	3,231	20	198	-
Valve W		1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve W	Vaterloo St S Vaterloo St S	1931 1931	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Value	Vaterioo St S	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve W	Vaterloo St S	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vaterloo St S	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vaterloo St S Vaterloo St S	1931 1966	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
	Vaterioo St S	1984	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vaterloo St S	1996	35	2031	3,231	12	306	-
	Vaterloo St S	1996	35 35	2031	3,231 3,231	12	306	-
	Vaterloo St S Vaterloo St S	1996 1996	35 35	2031 2031	3,231	12 12	306 306	-
	Vaterloo St S	1996	35	2031	3,231	12	306	-
	Vaterloo St S	1996	35	2031	3,231	12	306	-
	Vaterloo St S Vatermain On Burritt St	1997 2017	35 35	2032 2052	3,231 3,231	13 33	285 135	-
	Vatermain On Burritt St	2017	35	2052	3,231	33	135	-
	Vatermain On Joffre St	2016	35	2051	3,231	32	138	-
	Vatermain On Oxford St	2017	35	2052	3,231 3,231	33	135	-
<del> </del>	Vatermain On Oxford St  Vatermain On Romeo St S	2017 2017	35 35	2052 2052	3,231	33 33	135 135	<u> </u>
	Vatermain On Romeo St S	2017	35	2052	3,231	33	135	-
	Vell St	1920	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vell St Vell St	1920 1920	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
	Vell St	1920	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vellington St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vellington St	1964 1964	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
	Vellington St Vellington St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vellington St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vellington St	1964	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vellington St Vellington St	1964 1979	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
	Vellington St	1985	35	2020	3,231	1	suggested for 10 year capital forecast	3,231
	Vellington St	1985	35	2020	3,231	1	suggested for 10 year capital forecast	3,231
	Vellington St Vellington St	2006 2006	35 35	2041 2041	3,231 3,231	22 22	183 183	-
i i	Veilington St Vellington St	2006	35	2041	3,231	22	183	<u> </u>
Valve W	Vest Gore St	1922	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vest Gore St	1922	35 35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
	Vest Gore St Vest Gore St	1922 1924	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
	Vest Gore St	1924	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vest Gore St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vest Gore St Vest Gore St	1931 1931	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
	Vest Gore St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vest Gore St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
i i	Vest Gore St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vest Gore St Vest Gore St	1931 1931	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
	Vest Gore St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vest Gore St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vest Gore St Vest Gore St	1938	35 35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
	Vest Gore St Vest Gore St	1954 1954	35 35	2019 2019	3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
	Vest Gore St	1969	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
	Vest Gore St	1990	35	2025	3,231	6	suggested for 10 year capital forecast	3,231
	Vest Gore St Vest Gore St	1991 2004	35 35	2026 2039	3,231 3,231	7 20	suggested for 10 year capital forecast 198	3,231



			Valves, '	Valve Chambe	s, and Curb Sto	ps		
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Valve	West Gore St	2007	35	2042	3,231 3,231	23	177	-
Valve Valve	West Gore St West Gore St	2007	35 35	2042 2042	3,231	23 23	177 177	-
Valve	West Gore St	2007	35	2042	3,231	23	177	-
Valve Valve	White St Whitelock St	1977 1923	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Whitelock St	1923	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Whitelock St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Whitelock St	1976	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Whyte Ave Whyte Ave	1922 2011	35 35	2019 2046	3,231	0 27	suggested for 10 year capital forecast 156	3,231
Valve	William St	1926	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	William St	1926	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	William St	1931	35	2019	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	William St William St	1931 2002	35 35	2019 2037	3,231	18	suggested for 10 year capital forecast 216	3,231
Valve	William St	2002	35	2037	3,231	18	216	-
Valve	William St	2005	35	2040	3,231	21	190	-
Valve Valve	William St William St	2005 2005	35 35	2040 2040	3,231 3,231	21 21	190 190	-
Valve	William St	2006	35	2040	3,231	22	183	-
Valve	William St	2006	35	2041	3,231	22	183	-
Valve	William St	2006	35	2041	3,231	22	183	-
Valve Valve	William St William St	2010 2010	35 35	2045 2045	3,231 3,231	26 26	161 161	-
Valve	Willow St	1956	35	2045	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Willow St	1956	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Willow St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Willow St Willow St	1968 1968	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Willow St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Willow St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Willow St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Willow St Willow St	1968 1968	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Willow St	1968	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Willow St	1977	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Wilson Ct	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Windemere Cres Windemere Cres	1966 1966	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Windemere Cres	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Windemere Cres	1966	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Windemere Cres	1966	35 35	2019 2034	3,231 3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Wingfield Ave Wingfield Ave	1999 1999	35	2034	3,231	15 15	251 251	-
Valve	Wingfield Ave	1999	35	2034	3,231	15	251	-
Valve	Woods St	1914	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Woods St Woods St	1953 1953	35 35	2019 2019	3,231 3,231	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Woods St	1953	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Woods St	1956	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Woods St	1956	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve Valve	Woods St Woods St	1987 1987	35 35	2022	3,231 3,231	3	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Woods St	1987	35	2022	3,231	3	suggested for 10 year capital forecast	3,231
Valve	Wooton Ct	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231
Valve	Worsley St	2005	35	2040	3,231	21	190	-
Valve Valve	Worsley St Worsley St	2005 2005	35 35	2040 2040	3,231 3,231	21 21	190 190	-
Valve	Worsley St	2005	35	2040	3,231	21	190	-
Valve	Wright Blvd	1989	35	2024	3,231	5	suggested for 10 year capital forecast	3,231
Valve	Wright Blvd	1989	35	2024	3,231 3,231	5	suggested for 10 year capital forecast	3,231
Valve Valve	Wright Blvd Wright Blvd	1989 1989	35 35	2024 2024	3,231	5 5	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,231 3,231
Valve	Wright Blvd	1997	35	2032	3,231	13	285	-
Valve	Wright Blvd	1997	35	2032	3,231	13	285	-
Valve	Wright Blvd	1997	35	2032	3,231	13	285	-
Valve Valve	Wright Blvd Wright Blvd	1997 2009	35 35	2032 2044	3,231 3,231	13 25	285 165	-
Valve	Wright Blvd	2009	35		3,231	25	165	-
Valve	Wright Blvd	2009	35	2044	3,231	25	165	-
Valve	Wright Blvd	2009	35	2044	3,231	25	165	-
Valve	Wright Blvd	2009	35	2044	3,231 3,231	25 25	165	-
Valve	Wright Blvd	2009	35	2044	3.Z3T	7:1	165	-



Valves, Valve Chambers, and Curb Stops									
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast	
Valve	Wright Blvd	2009	35	2044	3,231	25	165	-	
Valve	Wright Blvd	2009	35	2044	3,231	25	165	-	
Valve	Wyatt St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Wyatt St	1976	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	York St	1931	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	York St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231	
Valve	York St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231	
Valve	York St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231	
Valve	York St	1992	35	2027	3,231	8	suggested for 10 year capital forecast	3,231	
Valve	Youngs St	1920	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Youngs St	1920	35	2019	3,231	0	suggested for 10 year capital forecast	3,231	
Valve	Youngs St	2012	35	2047	3,231	28	152	-	
Valve	Youngs St	2012	35	2047	3,231	28	152	-	
Valve Chamber	Devon St	1975	35	2019	14,687	0	suggested for 10 year capital forecast	14,687	
Valve Chamber	Downie St	1940	35	2019	14,687	0	suggested for 10 year capital forecast	14,687	
Valve Chamber	Dufferin Tower	1964	35	2019	14,687	0	suggested for 10 year capital forecast	14,687	
Valve Chamber	King St	1914	35	2019	14,687	0	suggested for 10 year capital forecast	14,687	
Valve Chamber	King St	1914	35	2019	14,687	0	suggested for 10 year capital forecast	14,687	
Valve Chamber	Lorne Ave E	1967	35	2019	14,687	0	suggested for 10 year capital forecast	14,687	
Valve Chamber	Rebecca St	1922	35	2019	14,687	0	suggested for 10 year capital forecast	14,687	
Valve Chamber	Romeo St S	1964	35	2019	14,687	0	suggested for 10 year capital forecast	14,687	
Valve Chamber	Valve Chamber -350400011	1964	35	2019	14,687	0	suggested for 10 year capital forecast	14,687	
Valve Chamber	Valve Chamber -350400012	2009	35	2044	14,687	25	752	-	
Valve Chamber	Water St	1924	35	2019	14,687	0	suggested for 10 year capital forecast	14,687	
Total					6,468,910		118,068	4,560,074	



# Appendix B Wastewater System Inventory



#### Wastewater Facilities

				aste water raci	111100			
ltem	Location	Year Installed	Estimated Life	Replacement Year	Replacement Cost	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Pump Station	Avonwood Station	1976	50	2026	1,013,789	7	suggested for 10 year capital forecast	1,013,789
Pump Station	Burritt Station	1977	50	2027	1,013,789	8	suggested for 10 year capital forecast	1,013,789
Pump Station	Douro Station	1966	50	2019	1,013,789	0	suggested for 10 year capital forecast	1,013,789
Pump Station	Downie Station	1991	50	2041	1,013,789	22	57,412	-
Pump Station	Dunn Road Station	2002	50	2052	1,013,789	33	42,261	-
Pump Station	Erie Station	1970	50	2020	1,013,789	1	suggested for 10 year capital forecast	1,013,789
Pump Station	Lorne Station	1975	50	2025	1,013,789	6	suggested for 10 year capital forecast	1,013,789
Pump Station	Taylor Station	1964	50	2019	1,013,789	0	suggested for 10 year capital forecast	1,013,789
Pump Station	Vic Inn Station	1998	50	2048	1,013,789	29	46,410	-
Pump Station	Vivian Station	1998	50	2048	1,013,789	29	46,410	-
Pump Station	WPCP Station	2004	50	2054	1,013,789	35	40,554	-
Wastewater Plant	WPCP Station	1977	60	2037	69,951,983	18	4,665,944	-
Total					81,103,662		4,898,991	6,082,734



					y of Stratf				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	101-121 Douglas St-Assumed Grade	78	1925	100	2025	22,713	6	suggested for 10 year capital forecast	22,713
Mains	Abbey Ct	64	1968	100	2068	18,673	49	601	-
Mains	Abbey Ct	31	1968	100	2068 2102	8,981 4,433	49	289	-
Mains Mains	Abraham Dr Abraham Dr	15 19	2002 2002	100 100	2102	5,504		110 136	-
Mains	Abraham Dr	78	2002	100	2102	22,632	83	561	-
Mains	Abraham Dr	72	2002	100	2102	20,976		520	-
Mains	Abraham Dr	71	2002	100	2102	20,696 20,046		513	-
Mains Mains	Abraham Dr Abraham Dr	69 17	2002 2002	100 100	2102 2102	4,925	83 83	497 122	-
Mains	Abraham Dr	53	2002	100	2102	15,591	83	387	-
Mains	Albert St	88	1912	100	2019	26,891	0	suggested for 10 year capital forecast	26,891
Mains	Albert St Albert St	95	1912	100	2019	28,980 41,189		suggested for 10 year capital forecast suggested for 10 year capital forecast	28,980
Mains Mains	Albert St	135 137	1915 1915	100 100	2019 2019	41,789	-	suggested for 10 year capital forecast	41,189 41,789
Mains	Albert St	137	1915	100	2019	41,742	_	suggested for 10 year capital forecast	41,742
Mains	Albert St	90	1998	100	2098	26,207	79	663	-
Mains	Albert St	16	1998	100	2098	4,745 28,607		120	- 00.007
Mains Mains	Albert St Albert St	94 118	1920 1920	100 100	2020 2020	34,388	1	suggested for 10 year capital forecast suggested for 10 year capital forecast	28,607 34,388
Mains	Albert St	119	1920	100	2020	34,568		suggested for 10 year capital forecast	34,568
Mains	Albert St	106	1920	100	2020	30,850	1	suggested for 10 year capital forecast	30,850
Mains	Albert St	106	1920	100	2020	30,924 31,091	1	suggested for 10 year capital forecast	30,924
Mains Mains	Albert St Albert St	102 104	1913 1913	100 100	2019 2019	31,537	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	31,091 31,537
Mains	Albert St	128	1920	100	2020	38,808		suggested for 10 year capital forecast	38,808
Mains	Albert St	148	1920	100	2020	45,080	1	suggested for 10 year capital forecast	45,080
Mains	Albert St	1	1915	100	2019	32 430	0	suggested for 10 year capital forecast	444
Mains Mains	Albert St Arden Pk	77 74	1915 2017	100 100	2019 2117	22,430 22,394	0 98	suggested for 10 year capital forecast 523	22,430
Mains	Arden Pk	74	1947	100	2047	22,394		1,052	-
Mains	Arden Pk	75	2000	100	2100	21,750	81	544	-
Mains	Argyle St	108	1916		2019	32,911	0	suggested for 10 year capital forecast	32,911
Mains Mains	Argyle St Arthur St	106 75	1916 1953	100 100	2019 2053	32,340 21,917	_	suggested for 10 year capital forecast 895	32,340
Mains	Arthur St	86	1953	100	2053	25,116		1,025	-
Mains	Arthur St	64	1953	100	2053	18,607	34	760	-
Mains	Arthur St	64	2017	100	2117	18,607	98	435	-
Mains Mains	Ash St Athlone Cres	99 15	1924 1994	100 100	2024 2094	29,989 4,499	_	suggested for 10 year capital forecast 116	29,989
Mains	Athlone Cres	46	1994	100	2094	13,424		347	-
Mains	Athlone Cres	53	1994	100	2094	15,455		400	-
Mains	Athlene Cres	71 73	1994	100	2094 2094	20,669 21,266		534	-
Mains Mains	Athlone Cres Athlone Cres	26	1994 1994	100 100	2094	7,451	75 75	550 193	-
Mains	Athlone Cres	54	1994	100	2094	15,828		409	-
Mains	Athlone Cres	60	1994	100	2094	17,458	_	451	-
Mains	Athlera Cres	78	1994	100	2094	22,829 4,286		590	-
Mains Mains	Athlone Cres Athlone Cres	15 25	1994 1994	100 100	2094 2094	7,168	_	111 185	-
Mains	Athlone Cres	14	1989	100	2089	4,171	70	111	-
Mains	Avon St	103	2017	100	2117	29,960		700	-
Mains	Avon St	10	2017	100	2117	3,167	98	74	-
Mains Mains	Avon St Avon St	91 103	2017 1922	100 100	2117 2022	26,491 29,960	98	619 suggested for 10 year capital forecast	29,960
Mains	Avon St	91	1922	100	2022	26,491	3	suggested for 10 year capital forecast	26,491
Mains	Avon St	91	1925	100	2025	26,640		suggested for 10 year capital forecast	26,640
Mains	Avon St	81	1925	100	2025	23,710	_	suggested for 10 year capital forecast	23,710
Mains Mains	Avon St Avon St	95 10	1901 1901	100 100	2019 2019	28,888 3,167	0	suggested for 10 year capital forecast	28,888 3,167
Mains	Avon St	30	1901	100	2019	8,782	_	suggested for 10 year capital forecast suggested for 10 year capital forecast	3,167 8,782
Mains	Avon St	106	1901	100	2019	32,288	0	suggested for 10 year capital forecast	32,288
Mains	Avon St	10	1925	100	2025	2,936		suggested for 10 year capital forecast	2,936
Mains Mains	Avon St Avon St	7 67	1925 1925	100 100	2025 2025	2,029 19,669	_	suggested for 10 year capital forecast	2,029 19,669
		07		100	2105	74,663	ŭ	suggested for 10 year capital forecast 1,826	- 19,009
Mains	Avon St	55	2005	1001				·	
		55 11	1985	100	2085	3,622	66	99	-
Mains Mains Mains	Avon St Avon St Avon St	11 9	1985 2005	100 100	2105	3,104	86	76	-
Mains Mains Mains Mains	Avon St Avon St Avon St Avondale Ave	11 9 46	1985 2005 1919	100 100 100	2105 2019	3,104 14,015	86 0	76 suggested for 10 year capital forecast	- 14,015
Mains Mains Mains	Avon St Avon St Avon St Avondale Ave Avondale Ave	11 9	1985 2005	100 100 100 100	2105	3,104	86 0 0	76 suggested for 10 year capital forecast suggested for 10 year capital forecast	- 14,015 14,160
Mains Mains Mains Mains Mains	Avon St Avon St Avon St Avondale Ave	11 9 46 47	1985 2005 1919 1919	100 100 100 100 100	2105 2019 2019	3,104 14,015 14,160	86 0 0	76 suggested for 10 year capital forecast	-
Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains	Avon St Avon St Avon St Avondale Ave Avondale Ave Avondale Ave Avondale Ave Avondale Ave Avondale Ave	11 9 46 47 98 6	1985 2005 1919 1919 1919 1919	100 100 100 100 100 100 100	2105 2019 2019 2019 2019 2019	3,104 14,015 14,160 29,904 1,849 28,266	86 0 0 0 0 0	suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast	14,015 14,160 29,904 1,849 28,266
Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains	Avon St Avon St Avon St Avon St Avondale Ave Avondale Ave Avondale Ave Avondale Ave Avondale Ave Avondale Ave Avondale Ave Avondale Ave	11 9 46 47 98 6 93	1985 2005 1919 1919 1919 1919 1919	100 100 100 100 100 100 100	2105 2019 2019 2019 2019 2019 2019	3,104 14,015 14,160 29,904 1,849 28,266 41,614	86 0 0 0 0 0 0	suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast	14,015 14,160 29,904 1,849 28,266 41,614
Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains	Avon St Avon St Avon St Avondale Ave Avondale Ave Avondale Ave Avondale Ave Avondale Ave Avondale Ave	11 9 46 47 98 6	1985 2005 1919 1919 1919 1919	100 100 100 100 100 100 100 100	2105 2019 2019 2019 2019 2019	3,104 14,015 14,160 29,904 1,849 28,266 41,614 26,691	86 0 0 0 0 0 0	suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast	14,015 14,160 29,904 1,849 28,266



					y of Stratfo nitary Sew				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Avonwood Dr	41	1976	100	2076	12,527	57	370	-
Mains	Avonwood Dr	78	1976	100	2076	23,682	57	700	-
Mains	Avonwood Dr	36	1976	100	2076	10,801	57	319	-
Mains	Avonwood Dr	40			2076	12,312	57	364	-
Mains	Avonwood Dr	17			2076	5,173		153	-
Mains	Babb Cres	62			2068	17,994 25,976		579 837	-
Mains Mains	Babb Cres Babb Cres	108			2068 2068	31,384		1,011	-
Mains	Baker St	61	1973		2073	17,674	_	538	_
Mains	Baker St	43			2073	12,463	54	380	-
Mains	Baker St	71	1973	100	2073	20,739	54	632	-
Mains	Baker St	20	1973	100	2073	5,965	~ .	182	-
Mains	Baker St	27	1973		2073	7,744		236	-
Mains	Ballantyne Ave	134	1908		2019	40,826		suggested for 10 year capital forecast	40,826
Mains	Ballantyne Ave	141	1908		2019	42,867 30,093	0	suggested for 10 year capital forecast	42,867
Mains Mains	Ballantyne Ave Barnsdale St	99 78			2019 2109	23,719	ŭ	suggested for 10 year capital forecast 570	30,093
Mains	Barnsdale St	6			2109	1,825		44	_
Mains	Barron St	64			2078	19,313	- 00	561	-
Mains	Barron St	44			2078	12,802	59	372	-
Mains	Barron St	96	1978	100	2078	27,911	59	810	-
Mains	Barron St	53			2078	15,516		450	-
Mains	Battershall Ct	39			2076	11,952	57	353	-
Mains	Battershall Ct	12			2076	3,745	ű.	111	-
Mains Mains	Battershall Ct Battershall Ct	18 71	1976 1976		2076 2076	5,571 21,703	57 57	165 642	-
Mains	Bay St	115			2076	35,002		suggested for 10 year capital forecast	35,002
Mains	Bay St	109			2019	33,021	0	suggested for 10 year capital forecast	33,021
Mains	Bay St	39			2020	11,880		suggested for 10 year capital forecast	11,880
Mains	Bay St	17	1920	100	2020	5,212	1	suggested for 10 year capital forecast	5,212
Mains	Bay St	40	1920	100	2020	12,141		suggested for 10 year capital forecast	12,141
Mains	Bay St	143			2020	43,438	-	suggested for 10 year capital forecast	43,438
Mains	Bedford Dr	19			2073	5,408	-	165	-
Mains	Bedford Dr	88		100	2067 2067	30,019 29,467	.0	979	-
Mains Mains	Bedford Dr Bedford Dr	101 79	1967 1967	100	2067	23,135	48 48	961 754	-
Mains	Bedford Dr	106			2073	30,764		937	_
Mains	Bedford Dr	65			2073	19,030		580	-
Mains	Bedford Dr	104			2073	30,400		926	-
Mains	Bedford Dr	106	1973	100	2073	31,015		944	-
Mains	Bedford Dr	43			2073	12,635	<del>                                     </del>	385	-
Mains	Bell Ct	47	1993		2093	13,769		358	-
Mains	Bell Ct Bell Ct	15 57			2093 2100	4,489 16,577	74 81	117 415	-
Mains Mains	Bell Ct	29			2093	8,502		221	
Mains	Bell Ct	81	1993		2093	23,547	74	612	-
Mains	Birmingham St	98			2117	28,613	98	668	-
Mains	Birmingham St	38	1914	100	2019	11,664	0	suggested for 10 year capital forecast	11,664
Mains	Birmingham St	34	1914	100	2019	10,411	0	suggested for 10 year capital forecast	10,411
Mains	Birmingham St	104			2023	30,435	-	suggested for 10 year capital forecast	30,435
Mains	Birmingham St	98			2023	28,613		suggested for 10 year capital forecast	28,613
Mains	Birmingham St	63			2022	17,580 29,188		suggested for 10 year capital forecast	17,580
Mains Mains	Birmingham St Birmingham St	100 116		100 100	2019 2022	35,414	- V	suggested for 10 year capital forecast suggested for 10 year capital forecast	29,188 35,414
Mains	Birmingham St	51	1912		2022	15,606		suggested for 10 year capital forecast	15,606
Mains	Birmingham St	118			2022	36,012		suggested for 10 year capital forecast	36,012
Mains	Birmingham St	41	1927	100	2027	11,430	8	suggested for 10 year capital forecast	11,430
Mains	Birmingham St	13			2019	3,860	-	suggested for 10 year capital forecast	3,860
Mains	Birmingham St	15			2019	4,410		suggested for 10 year capital forecast	4,410
Mains	Birmingham St	105			2019	30,495		suggested for 10 year capital forecast	30,495
Mains	Birmingham St	48			2019	14,106 18,613		suggested for 10 year capital forecast	14,106
Mains Mains	Birmingham St	64 45			2019 2019	13,703	_	suggested for 10 year capital forecast	18,613 13,703
Mains Mains	Birmingham St Birmingham St	12			2019	3,527	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	13,703 3,527
Mains	Birmingham St	88		100	2021	25,768	_	suggested for 10 year capital forecast	25,768
Mains	Birmingham St	67	2005		2105	122,203		2,988	-
Mains	Birmingham St	6			2105	11,798		289	-
Mains	Birmingham St	18			2105	33,275		814	-
Mains	Birmingham St	3		1	2105	983		24	-
Mains	Birmingham St	17	2005		2105	4,906		120	-
Mains	Birmingham St	92			2102	26,828 16,926		665	-
Mains Mains	Birmingham St Birmingham St	58 11	2005 2005		2105 2105	3,222		414 79	-
Mains	Birmingham St	3			2105	885		22	
Mains	Birmingham St	108			2112	31,413		747	-
	Birmingham St	127			2112	37,037		880	-
Mains	<u></u>		ī <u> </u>						l *
	Blake St	103	2016	100	2116	31,435	97	737	-
Mains		103 15			2116 2028	4,662		737 suggested for 10 year capital forecast	4,662
Mains Mains	Blake St		1928	100 100			9		4,662 33,270 30,857



					y of Stratf nitary Sew				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Blake St	83	1923	100	2023	25,289	4	suggested for 10 year capital forecast	25,289
Mains	Blake St	16	2009	100	2109	4,781	90	115	-
Mains	Blake St	16	2009	100	2109	4,740	90	114	-
Mains	Blake St	3	1928	100	2028	814	9	suggested for 10 year capital forecast	814
Mains	Blake St	93	1965	100	2065	27,032 21,883	46	904	-
Mains Mains	Blake St Blake St	75 59	1965 1965	100 100	2065 2065	17,096	46 46	732 572	-
Mains	Blake St	17	1965	100	2065	5,055	46	169	
Mains	Borden St	92	1964	100	2064	27,978	45	949	-
Mains	Borden St	88	1964	100	2064	26,871	45	911	-
Mains	Borden St	78	1947	100	2047	22,774	28	1,070	-
Mains	Boyd St	51	1987	100	2087	14,731	68	398	-
Mains	Boyd St	5	1987	100	2087	1,318	68	36	-
Mains	Braemar Cres	12	1974	100	2074	3,388 27,519	55	102	-
Mains Mains	Braemar Cres Braemar Cres	94 94	1974 1974	100 100	2074 2074	27,319	55 55	830 824	-
Mains	Braemar Cres	67	1974	100	2074	19,554	55	589	
Mains	Braemar Cres	94	1974	100	2074	27,377	55	825	-
Mains	Braemar Cres	94	1974	100	2074	27,452	55	827	-
Mains	Brant St	85	1987	100	2087	24,823	68	671	-
Mains	Brant St	80	1987	100	2087	23,441	68	634	-
Mains	Brant St	84	1987	100	2087	24,563	68	664	-
Mains	Brett St	38	1976	100	2076	11,699	57	346	-
Mains Mains	Brett St Briarhill Dr	42 45	1976 1966	100 100	2076 2066	12,917 15,433	57 47	382 510	-
Mains	Briarhill Dr	43	1974	100	2074	14,888	55	449	-
Mains	Briarhill Dr	42	1974	100	2074	12,273	55	370	_
Mains	Briarhill Dr	98	1974	100	2074	29,654	55	894	-
Mains	Briarhill Dr	90	1966	100	2066	30,792	47	1,017	-
Mains	Briarhill Dr	98	1966	100	2066	33,546	47	1,108	-
Mains	Briarhill Dr	44	1986		2086	12,812	67	349	-
Mains	Briarhill Dr	53	1991	100	2091	15,482	72	408	-
Mains	Briarhill Dr	76	1986	100	2086	22,138 16,119	67	603	-
Mains Mains	Briarhill Dr Briarhill Dr	55 54	1991 1991	100 100	2091 2091	15,672	72 72	424 413	-
Mains	Briarhill Dr	94	1986	100	2086	27,464	67	748	
Mains	Briarhill Dr	17	1986	100	2086	5,002	67	136	-
Mains	Briarhill Dr	67	1991	100	2091	19,667	72	518	-
Mains	Briarhill Dr	66	1991	100	2091	19,351	72	509	•
Mains	Britannia St	4	1972	100	2072	1,293	53	40	-
Mains	Britannia St	84	1941	100	2041	24,515	22	1,388	-
Mains	Britannia St	26	2003	100	2103	7,497 13,158	84	185	-
Mains Mains	Britannia St  Britannia St	38 36	2003 2003	100 100	2103 2103	12,346	84 84	325 305	<u>-</u>
Mains	Britannia St	62	2003	100	2103	21,310	84	526	-
Mains	Britannia St	30	1999	100	2099	8,646	80	218	-
Mains	Britannia St	38	2003	100	2103	13,087	84	323	-
Mains	Britannia St	97	2003	100	2103	33,057	84	816	-
Mains	Britannia St	36	2003	100	2103	12,157	84	300	-
Mains	Britannia St	38	2003	100	2103	13,152	84	325	-
Mains	Britannia St	18	1999	100	2099	5,221 24,789	80 84	131	-
Mains Mains	Britannia St Britannia St	85 6	2003 2003	100 100	2103 2103	1,851	84 84	612 46	
Mains	Britannia St	69	2003	100	2103	20,090	84	496	
Mains	Britannia St	6	2003	100	2103	1,843	84	45	_
Mains	Britannia St	7	2003	100	2103	2,151	84	53	-
Mains	Britannia St	6	2001	100	2101	2,291	82	57	-
Mains	Britannia St	60	1963	100	2063	17,466	44	601	-
Mains	Britannia St	10	1965	100	2065	2,888	46	97	-
Mains Mains	Britannia St Britannia St	54 49	1965 1959	100 100	2065 2059	15,613 14,361	46 40	522 525	-
Mains	Britannia St	59	1959 1963	100	2059	17,253	40	525	-
Mains	Britannia St	60	1963	100	2063	17,605	44	605	
Mains	Britannia St	62	1963	100	2063	17,992	44	619	-
Mains	Britannia St	46	1965	100	2065	13,435	46	449	-
Mains	Britannia St	53	1963	100	2063	18,922	44	651	-
Mains	Britannia St	76	1963	100	2063	26,833	44	923	-
Mains	Britannia St	76	1963	100	2063	26,811 3,889	44	922	-
Mains	Brown St	13	2009		2109		90 91	94 71	-
Mains Mains	Brown St Brown St	10 46	2010 2010	100 100	2110 2110	-	91	320	-
Mains	Brown St	47	2010		2110			330	
Mains	Brown St	22	2010	100	2110		91	155	-
Mains	Brown St	72	2010		2110		91	505	-
Mains	Brown St	90	2010	100	2110		91	628	-
Mains	Brown St	90	2010	100	2110		91	627	-
Mains	Brown St	2	2010		2110		91	15	
Mains	Bruce St	22	1976		2076		57	183	
Mains	Bruce St	91	1964	100	2064	27,680	45	939	-
Mains	Bruce St	91	1964	100	2064	27,773	45	942	-



Mains Mains	Bruce St Bruce St Brunswick St	Length (m)  102 102 167 83 90 6 194 100 15 120 86 92 92 86 129	Year Installed 2017 1961 1924 1921 1921 1921 1921 1915 1921 1897	100 100 100 100 100 100 100 100 100	Replace ment Year  2117 2061 2024 2021 2021 2021	Total Main Replacement Costs 29,680 29,680 48,682 113,713 122,718 8,648	Years until Replacement 98 42 5	Annual Lifecycle Contribution  693  1,051  suggested for 10 year capital forecast	Amount to be included in 10 year Forecast
Mains Mains	Bruce St Brunswick St	102 167 83 90 6 194 100 15 120 86 92 92 86	1961 1924 1921 1921 1921 1921 1921 1915 1921	100 100 100 100 100 100 100	2061 2024 2021 2021 2021 2021	29,680 48,682 113,713 122,718	42 5 2	1,051 suggested for 10 year capital forecast	
Mains Mains	Brunswick St Brunswick St	167 83 90 6 194 100 15 120 86 92 92	1924 1921 1921 1921 1921 1921 1921 1915 1921	100 100 100 100 100 100 100	2024 2021 2021 2021 2021	48,682 113,713 122,718	5 2	suggested for 10 year capital forecast	
Mains Mains	Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St	83 90 6 194 100 15 120 86 92 92	1921 1921 1921 1921 1921 1921 1915	100 100 100 100 100 100	2021 2021 2021 2021	113,713 122,718	2		
Mains Mains	Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St	90 6 194 100 15 120 86 92 92 92 86	1921 1921 1921 1921 1921 1915 1921	100 100 100 100 100	2021 2021 2021	122,718		auganoted for 10	
Mains Mains	Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St	6 194 100 15 120 86 92 92 92 86	1921 1921 1921 1921 1915 1921	100 100 100 100	2021 2021			suggested for 10 year capital forecast	113,713
Mains Mains	Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St	194 100 15 120 86 92 92 92 86	1921 1921 1921 1915 1921	100 100 100	2021		2	suggested for 10 year capital forecast	122,718
Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains	Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St	100 15 120 86 92 92 86	1921 1921 1915 1921	100 100		265,791	2	suggested for 10 year capital forecast suggested for 10 year capital forecast	8,648 265,791
Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains	Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St	15 120 86 92 92 92	1921 1915 1921	100	2021	136,540	2	suggested for 10 year capital forecast	136,540
Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains	Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St	86 92 92 86	1921	100	2021	20,491	2	suggested for 10 year capital forecast	20,491
Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains	Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St	92 92 86			2019	36,393	0	suggested for 10 year capital forecast	36,393
Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains	Brunswick St Brunswick St Brunswick St Brunswick St Brunswick St	92 86	1897	100	2021	118,369	2	suggested for 10 year capital forecast	118,369
Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains	Brunswick St Brunswick St Brunswick St Brunswick St	86		100	2019	31,330	0	suggested for 10 year capital forecast	31,330
Mains Mains Mains Mains Mains Mains Mains Mains Mains	Brunswick St Brunswick St Brunswick St		1897	100	2019	31,591	0	suggested for 10 year capital forecast	31,591
Mains Mains Mains Mains Mains Mains Mains	Brunswick St Brunswick St	1291	1897	100	2019	29,478 39,338	0	suggested for 10 year capital forecast	29,478
Mains Mains Mains Mains Mains Mains	Brunswick St	123	1913 1913	100 100	2019 2019	39,338	0	suggested for 10 year capital forecast	39,338
Mains Mains Mains Mains		86	1921	100	2019	118,330	2	suggested for 10 year capital forecast suggested for 10 year capital forecast	37,403 118,330
Mains Mains Mains	Brunswick St	92	1921	100	2021	126,266	2	suggested for 10 year capital forecast	126,266
Mains Mains	Brunswick St	95	1921	100	2021	129,477	2	suggested for 10 year capital forecast	129,477
Mains	Brunswick St	14	1997	100	2097	4,246	78	108	
	Brunswick St	151	1913	100	2019	45,944	0	suggested for 10 year capital forecast	45,944
Mains	Brunswick St	67	1913	100	2019	20,453	0	suggested for 10 year capital forecast	20,453
Mains	Brunswick St	9	1913	100	2019	2,718	0	suggested for 10 year capital forecast	2,718
	Brunswick St	61	1913	100	2019	18,437	0	suggested for 10 year capital forecast	18,437
Mains	Brunswick St	107	1900	100	2019	32,456	0	suggested for 10 year capital forecast	32,456
Mains	Brunswick St	106	1900	100	2019	32,313 25,822	0	suggested for 10 year capital forecast	32,313
Mains Mains	Brunswick St Brunswick St	85 90	1918 1916	100 100	2019 2019	27,296	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	25,822 27,296
Mains	Brunswick St	106	1916	100	2019	32,275	0	suggested for 10 year capital forecast	32,275
Mains	Brunswick St	86	1916	100	2019	26,301	0	suggested for 10 year capital forecast	26,301
	Brunswick St	83	1920	100	2020	25,254	1	suggested for 10 year capital forecast	25,254
Mains	Brunswick St	84	1920	100	2020	25,659	1	suggested for 10 year capital forecast	25,659
Mains	Brydges St	112	1913	100	2019	39,769	0	suggested for 10 year capital forecast	39,769
Mains	Brydges St	112	1913	100	2019	39,804	0	suggested for 10 year capital forecast	39,804
	Brydges St	92	1913	100	2019	32,782	0	suggested for 10 year capital forecast	32,782
	Brydges St	113	1913	100	2019	40,034	0	suggested for 10 year capital forecast	40,034
	Brydges St	90 89	1913 1913	100	2019 2019	31,884 31,640	0	suggested for 10 year capital forecast	31,884
	Brydges St Brydges St	90	1913	100 100	2019	32,052	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	31,640 32,052
	Brydges St	4	1913	100	2019		0	suggested for 10 year capital forecast	1,232
	Brydges St	120	1999	100	2099	51,726	80	1,301	-
Mains	Brydges St	20	2002	100	2102	9,863	83	245	-
Mains	Brydges St	80	2002	100	2102	38,646	83	958	-
	Brydges St	108	2002	100	2102	51,805	83	1,284	-
	Brydges St	7	2002	100	2102	3,258	83	81	-
	Brydges St Brydges St	112	2009 2009	100 100	2109 2109		90	83 1,162	-
	Brydges St	90	2009	100	2109		90	1,047	
	Brydges St	89	2009	100	2109		90	1,030	-
	Brydges St	90	2009	100	2109	43,310	90	1,041	-
Mains	Brydges St	112	2009	100	2109	54,130	90	1,302	-
Mains	Brydges St	104	2009	100	2109		90	1,206	-
Mains	Brydges St	3	2009	100	2109		90	26	-
	Buckingham Dr	99	2000	100	2100	28,775	81	720	-
Mains Mains	Burnham Ct Burnham Ct	39 80	1992 1992	100 100	2092 2092	11,487 23,253	73 73	301 608	-
Mains	Burnit St	17	1992 1974	100	2092	4,952	55	149	-
Mains	Burritt St	3	1974	100	2074	749	58	22	
	Burritt St	11	1977	100	2077	3,188	58	93	
	Burritt St	75	1950	100	2050	21,899	31	955	-
Mains	Burritt St	86	1950	100	2050		31	1,099	-
	Burritt St	86	1956	100	2056		37	1,003	-
	Burritt St	93	1966		2066		47	938	-
	Burritt St	90	1966	100	2066		47	901	-
	Burritt St	62	1966	100	2066		47	624	-
Mains Mains	Burritt St Burritt St	81 39	1956 1967	100 100	2056 2067	24,525 11,405	37 48	944 372	-
	Burritt St	79	1967 1956	100	2056	22,938	37	883	
	Burritt St	80	1950	100	2050		31	1,020	-
Mains	Burritt St	70	1950	100	2050	20,472	31	893	-
	Burritt St Pumping Station	23	1977	100	2077	11,531	58	338	-
Mains	Burwell Rd	61	1987	100	2087	18,625	68	503	-
Mains	C.H. Meier Blvd	81	1967	100	2067	28,686	48	935	-
	C.H. Meier Blvd	89	1967	100	2067	31,499	48	1,027	-
	C.H. Meier Blvd	7	1967	100	2067	2,189	48	71	-
	C.H. Meier Blvd	17	1966	100	2066		47	246	-
	C.H. Meier Blvd	25	2001	100	2101	8,934 30,998	82	223	-
	C.H. Meier Blvd C.H. Meier Blvd	87 109	1966 1966		2066 2066		47 47	1,023 1,277	-
	C.H. Meier Blvd	59	1966		2066	-	47	1,277	-



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	C.H. Meier Blvd	87	1966	100	2066	30,801	47	1,017	-
Mains	C.H. Meier Blvd	51	1966	100	2066	18,269	47	603	-
Mains	C.H. Meier Blvd	35		100	2066	12,342	47	408	-
Mains Mains	Caledonia St Caledonia St	14 78		100 100	2072 2019	4,104 23,853	53	126 suggested for 10 year capital forecast	23,853
Mains	Caledonia St	85		100	2019	25,982	0	suggested for 10 year capital forecast	25,982
Mains	Caledonia St	93		100	2019	26,984	0	suggested for 10 year capital forecast	26,984
Mains	Caledonia St	97		100	2019	29,642	0	suggested for 10 year capital forecast	29,642
Mains	Caledonia St	68		100	2030	20,800 16,902	11	2,125	
Mains Mains	Caledonia St Caledonia St	56 74		100 100	2019 2019	22,368	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	16,902 22,368
Mains	Caledonia St	86		100	2019	26,070	0	suggested for 10 year capital forecast	26,070
Mains	Caledonia St	13		100	2019	3,673	0	suggested for 10 year capital forecast	3,673
Mains	Caledonia St	101	1998	100	2098	29,399	79	744	-
Mains	Caledonia St	73		100	2109	21,379 26,015	90	514	-
Mains Mains	Caledonia St Caledonia St	86 97		100 100	2109 2109	29,543	90	626 710	
Mains	Caledonia St	86		100	2109	24,988	90	601	-
Mains	Caledonia St	73		100	2109	21,337	90	513	-
Mains	Caledonia St	79		100	2109	26,945	90	648	-
Mains	Cambria St	177	2017	100	2117	53,881 28,128	98	1,258	-
Mains Mains	Cambria St Cambria St	92 51	2017 1917	100 100	2117 2019	28,128 15,401	98	657 suggested for 10 year capital forecast	- 15,401
Mains	Cambria St	137		100	2019	41,633	0	suggested for 10 year capital forecast	41,633
Mains	Cambria St	126		100	2019	38,448	0	suggested for 10 year capital forecast	38,448
Mains	Cambria St	84		100	2019	28,692	0	suggested for 10 year capital forecast	28,692
Mains	Cambria St	11	1919	100	2019	3,656 25,550	0	suggested for 10 year capital forecast	3,656
Mains Mains	Cambria St Cambria St	75 14		100 100	2019 2106	13,542	0 87	suggested for 10 year capital forecast 330	25,550
Mains	Cambria St	55		100	2106	53,382	87	1,300	
Mains	Cambria St	29	2006	100	2106	28,199	87	687	-
Mains	Cambria St	4		100	2092	1,215	73	32	-
Mains	Cambria St	3		100	2106	919 31,454	<u> </u>	22 823	-
Mains Mains	Cambria St Cambria St	92	1992	100 100	2092 2019	53,881	73	suggested for 10 year capital forecast	53,881
Mains	Cambria St	88		100	2020	26,874	1	suggested for 10 year capital forecast	26,874
Mains	Cambria St	85		100	2020	25,850	1	suggested for 10 year capital forecast	25,850
Mains	Cambria St	84		100	2020	25,588	1	suggested for 10 year capital forecast	25,588
Mains	Cambria St	97 92		100 100	2020 2019	29,582 28,128	0	suggested for 10 year capital forecast	29,582
Mains Mains	Cambria St Campbell Ct	61	1919	100	2019	18,658		suggested for 10 year capital forecast 552	28,128
Mains	Campbell Ct	60		100	2076	18,396		544	-
Mains	Campbell Ct	13		100	2077	3,708	58	109	-
Mains	Campbell Ct	73		100	2076	22,212	57	657	-
Mains Mains	Canterbury Ave Canterbury Ave	37 8		100 100	2024 2024	10,643 2,538		suggested for 10 year capital forecast suggested for 10 year capital forecast	10,643 2,538
Mains	Canterbury Ave	81	1956	100	2056	23,717	37	913	- 2,556
Mains	Canterbury Ave	82		100	2056	23,787	37	916	-
Mains	Canterbury Ave	77		100	2056	22,478	-	866	-
Mains	Caroline St	42		100	2080	12,354	61	352	-
Mains Mains	Caroline St	87 41	1919 1982	100 100	2019 2082	26,576 11,836		suggested for 10 year capital forecast 332	26,576
Mains	Cawston St	122		100	2052	63,611	40	2,325	
Mains	Cawston St	61	1965	100	2065	17,904	46	599	ı
Mains	Cawston St	61	1965	100	2065	17,751	46	594	-
Mains	Cedar St	7		100	2075	2,060	56	61	-
Mains Mains	Cedar St Cedar St	49 108		100 100	2047 2047	14,347 31,514	28 28	674 1,481	-
Mains	Cedarbrae Dr	62		100	2091	17,959		473	-
Mains	Cedarbrae Dr	64		100	2091	18,640		491	ı
Mains	Cedarbrae Dr	112	1986	100	2086	32,688		890	-
Mains	Cedarbrae Dr	61	1991	100	2091	17,797	72	469	-
Mains Mains	Centre St Centre St	100 150		100 100	2019 2108	30,529 45,710	0 89	suggested for 10 year capital forecast 1,104	30,529
Mains	Centre St	171	1914	100	2019	51,993	0	suggested for 10 year capital forecast	51,993
Mains	Centre St	91	1914	100	2019	27,542	0	suggested for 10 year capital forecast	27,542
Mains	Centre St	12		100	2104	4,034	85	99	-
Mains	Charles St	94		100	2047	27,476 30,219		1,291	-
Mains Mains	Charles St Charles St	104		100	2047 2047	30,219 4,444	28 28	1,420	
Mains	Charles St	83		100	2047	25,163		suggested for 10 year capital forecast	25,163
Mains	Charles St	91	1907	100	2019	27,595	0	suggested for 10 year capital forecast	27,595
Mains	Charles St	81	1907	100	2019	24,588		suggested for 10 year capital forecast	24,588
Mains	Charles St	92		100	2019	27,856		suggested for 10 year capital forecast	27,856
Mains Mains	Charles St	65 81	1907 1907	100 100	2019 2019	19,779 24,646		suggested for 10 year capital forecast suggested for 10 year capital forecast	19,779
Mains Mains	Charles St Charles St	81		100	2019	25,225		suggested for 10 year capital forecast suggested for 10 year capital forecast	24,646 25,225
		91	1907	100	2019	27,667	0	suggested for 10 year capital forecast	27,667
Mains	Charles St		1307					suggested for 10 year capital forecast	21,001
Mains Mains	Cherry St	60		100	2117	17,548 3,285	98	410	-



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Cherry St	60	1925	100	2025	17,548	6	suggested for 10 year capital forecast	17,548
Mains	Cherry St	11	1925	100	2025		6	suggested for 10 year capital forecast	3,285
Mains	Cherry St	9		100	2025		6	suggested for 10 year capital forecast	2,657
Mains Mains	Cherry St	6		100 100	2025 2025		6	suggested for 10 year capital forecast suggested for 10 year capital forecast	1,622 1,143
Mains	Cherry St	9		100	2023		0	suggested for 10 year capital forecast	2,773
Mains	Cherry St	84	1914	100	2019		0	suggested for 10 year capital forecast	25,482
Mains	Cherry St	85		100	2019		0	suggested for 10 year capital forecast	25,956
Mains	Cherry St	20		100	2109		90	143	- 00.700
Mains Mains	Chestnut St Chestnut St	78 117	1920 1915	100 100	2020 2019		0	suggested for 10 year capital forecast suggested for 10 year capital forecast	22,736 35,644
Mains	Chestnut St	15		100	2020		1	suggested for 10 year capital forecast	4,432
Mains	Chestnut St	117	2011	100	2111	40,099	92	957	-
Mains	Chestnut St	93		100	2111	31,893	92	761	-
Mains	Chestnut St	95		100	2111	27,808 34,859	92 92	663	-
Mains Mains	Chestnut St Church St	120 57	2011 1900	100 100	2111 2019		0	832 suggested for 10 year capital forecast	17,188
Mains	Church St	91	1900	100	2019	-	0	suggested for 10 year capital forecast	27,737
Mains	Church St	97	1922	100	2022		3	suggested for 10 year capital forecast	29,652
Mains	Church St	103		100	2022	30,145	3	suggested for 10 year capital forecast	30,145
Mains	Church St Church St	107 110	1918 1918	100 100	2019 2019		0	suggested for 10 year capital forecast	32,419
Mains Mains	Church St	45	1918	100	2019	,	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	33,365 13,771
Mains	Church St	46		100	2019		0	suggested for 10 year capital forecast	13,844
Mains	Church St	8	1916	100	2019		0	suggested for 10 year capital forecast	2,333
Mains	Church St	108		100	2020		1	suggested for 10 year capital forecast	37,092
Mains	Church St	126 17	1920 2005	100 100	2020 2105		1 86	suggested for 10 year capital forecast	42,992
Mains Mains	Church St	3		100	2105		86		-
Mains	Church St	16		100	2105		86	112	-
Mains	Church St	65		100	2105		86	465	-
Mains	Church St	9		100	2105		86	66	-
Mains Mains	Church St Church St	92 76	1959 1962	100 100	2059 2062	26,778 22,224	40 43	979 775	-
Mains	Cluff Ct	61	2002	100	2102		83	438	-
Mains	Cobourg Lane	126	1916	100	2019	38,176	0	suggested for 10 year capital forecast	38,176
Mains	Cobourg St	30		100	2117	8,724	98	204	-
Mains	Cobourg St	38		100	2117	10,981 12,862	98	256	-
Mains Mains	Cobourg St Cobourg St	44 16		100 100	2117 2117	4,787	98 98	300 112	-
Mains	Cobourg St	38		100	2028		9	suggested for 10 year capital forecast	10,981
Mains	Cobourg St	126		100	2019	38,308	0	suggested for 10 year capital forecast	38,308
Mains	Cobourg St	114		100	2019		0	suggested for 10 year capital forecast	34,602
Mains	Cobourg St	155		100	2019		0	suggested for 10 year capital forecast	47,270
Mains Mains	Cobourg St Cobourg St	85 141	1913 1913	100 100	2019 2019		0	suggested for 10 year capital forecast suggested for 10 year capital forecast	25,896 42,907
Mains	Cobourg St	128		100	2019		0	suggested for 10 year capital forecast	38,934
Mains	Cobourg St	9	1913	100	2019		0	suggested for 10 year capital forecast	2,850
Mains	Cobourg St	8		100	2019		0	suggested for 10 year capital forecast	2,295
Mains	Cobourg St	121 115	1913 1913	100 100	2019 2019		0	suggested for 10 year capital forecast	36,805 35,034
Mains Mains	Cobourg St Cobourg St	44		100	2019		9	suggested for 10 year capital forecast suggested for 10 year capital forecast	12,862
Mains	Cobourg St	30		100	2097		78	222	-
Mains	Cobourg St	18	1928	100	2028		9	suggested for 10 year capital forecast	5,220
Mains	Cobourg St	16		100	2028		9	suggested for 10 year capital forecast	4,787
Mains Mains	Cody Dr Cody Dr	70 70		100 100	2104 2104		85 85	503 503	
Mains	Cody Dr	22	2004	100	2104		85	155	
Mains	College St	12	2005	100	2105	3,590	86	88	
Mains	College St	54		100	2105		86	387	-
Mains	College St	36		100	2105		86	259	-
Mains Mains	College St Cooper St	73 167	2005 1912	100 100	2105 2019		86 0	520 suggested for 10 year capital forecast	50,726
Mains	Cooper St	8		100	2019		0	suggested for 10 year capital forecast	2,388
Mains	Cooper St	7	2010	100	2110	2,184	91	52	-
Mains	Corcoran St	54			2046		27	756	-
Mains	Corcoran St	12	1946		2046		27	172	-
Mains Mains	Corcoran St Coriano St	55 117		100 100	2108 2117		89 98	786 796	-
Mains	Coriano St	63			2046			890	
Mains	Coriano St	117	1946		2046	34,077	27	1,646	
Mains	Coriano St	98			2046			1,377	-
Mains	Crane Ave	193		100	2109			2,650	
Mains Mains	Crane Ave	196 80		100 100	2109 2061	111,584 27,522	90 42	2,683 975	
Mains	Crane Ave	75		100	2061	25,570		906	
Mains	Crane Ave	87	1961	100	2061	29,651	42	1,050	
Mains	Crane Ave	88		100	2061	29,949		1,061	-
Mains Mains	Crane Ave	72		100	2061	22,038		781	-
	Crane Ave	45	2009	100	2109	15,373	90	370	-



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Crane Ave	79	2009	100	2109	26,969	90	648	-
Mains	Crane Ave	12	2009	100	2109	3,354	90	81	-
Mains	Crane Ave	15	2009	100	2109	4,252	90	102	-
Mains	Crane Ave	79	2009	100	2109	26,905	90	647	-
Mains	Crane Ave	82	1969	100	2069	24,031	50	765	-
Mains	Crane Ave	82	1969	100	2069	23,853 27,726	50	759	-
Mains Mains	Crawford St Crawford St	95 108	1991 1991	100 100	2091 2091	31,450	72 72	730 828	-
Mains	Crehan Cres	75	1976		2076	21,783	57	644	
Mains	Crehan Cres	19	1976		2076	5,571	57	165	-
Mains	Crehan Cres	66	1976		2076	19,223	57	568	-
Mains	Crehan Cres	33	1976	100	2076	9,627	57	285	-
Mains	Crehan Cres	60	1976	100	2076	18,310	57	541	-
Mains	Daly Ave	30	2017	100	2117	8,671	98	203	-
Mains	Daly Ave	30	1925	100	2025	8,671	6	suggested for 10 year capital forecast	8,671
Mains	Daly Ave	4	1925	100	2025	1,113 22,225	6	suggested for 10 year capital forecast	1,113
Mains Mains	Daly Ave Daly Ave	76 14	1920 1920	100 100	2020 2020	4,129	1	suggested for 10 year capital forecast suggested for 10 year capital forecast	22,225 4,129
Mains	Daly Ave	16	1920	100	2020	4,612	1	suggested for 10 year capital forecast	4,129
Mains	Daly Ave	30	1920	100	2020	8,824	1	suggested for 10 year capital forecast	8,824
Mains	Daly Ave	23	1920	100	2020	6,712	1	suggested for 10 year capital forecast	6,712
Mains	Daly Ave	53	1920	100	2020	16,207	1	suggested for 10 year capital forecast	16,207
Mains	Daly Ave	43	1920	100	2020	12,542	1	suggested for 10 year capital forecast	12,542
Mains	Daly Ave	17	1920	100	2020	5,028	1	suggested for 10 year capital forecast	5,028
Mains	Dannecker Rd	87	2004	100	2104	51,817	85	1,273	-
Mains	Dannecker Rd	79	2004 2004	100	2104	47,225 47,648	85 85	1,160	-
Mains Mains	Dannecker Rd  Dannecker Rd	80 69	2004	100 100	2104 2104	35,847	85 85	1,170 881	-
Mains	Dannecker Rd	72	2004	100	2104	20,913	85	514	<u> </u>
Mains	Dannecker Rd	90	2004	100	2104	26,162	85	643	-
Mains	Dannecker Rd	82	2004	100	2104	23,992	85	589	1
Mains	Dawson St	56	2018	100	2118	16,417	99	382	•
Mains	Dawson St	20	2018	100	2118	5,796	99	135	-
Mains	Dawson St	56	1956	100	2056	16,417	37	632	-
Mains	Dawson St	20	1956	100	2056	5,796 27,336	37	223	-
Mains	Dawson St Dawson St	94 66	1958 1958	100 100	2058 2058	19,362	39 39	1,016 720	-
Mains Mains	Dawson St	51	1958	100	2058	14,828	39	551	
Mains	Deacon St	87	1976	100	2076	26,379	57	780	-
Mains	Deacon St	16	1976	100	2076	4,780	57	141	-
Mains	Deacon St	65	1976	100	2076	19,882	57	588	-
Mains	Delamere Ave	82	2016	100	2116		97	563	-
Mains	Delamere Ave	93	1956	100	2056	27,086	37	1,043	-
Mains	Delamere Ave	66	1956	100	2056	19,129	37	737	-
Mains Mains	Delamere Ave	67 106	1956 1956	100 100	2056 2056	19,649 30,838	37 37	757 1,187	-
Mains	Delamere Ave Delamere Ave	100	2016		2116	-	97	65	-
Mains	Delamere Ave	99	2016		2116		97	679	-
Mains	Delamere Ave	71	1958	100	2058	20,643	39	767	-
Mains	Delamere Ave	93	1963	100	2063	27,018	44	929	-
Mains	Delamere Ave	42	1958	100	2058	12,130	39	451	-
Mains	Delamere Ave	57	1958	100	2058	16,597	39	617	-
Mains	Delamere Ave	97	1963	100	2063	28,336	44	974	-
Mains	Delamere Ave	10	1958	100	2058	2,970 24,714	39	110	-
Mains Mains	Demille St  Demille St	85 86	1978 1978	100 100	2078 2078	25,047	59 59	717 727	-
Mains	Demille St	86	1978	100	2078	24,943	59	724	-
Mains	Denison St	86	1956		2056	25,208	37	971	-
Mains	Devon St	224	1976		2076	127,652	57	3,774	-
Mains	Devon St	48	1968	100	2068	14,026	49	452	-
Mains	Devon St	77	1968	100	2068	23,528	49	758	-
Mains	Devon St	81	1968	100	2068	24,763	49	797	-
Mains	Devon St	16	1976	100	2076	4,796 18,277	57	142	-
Mains Mains	Devon St  Devon St	63 95	1977 1968	100 100	2077 2068	18,277 28,908	58 49	535 931	-
Mains Mains	Devon St  Devon St	95	1968 1968	100	2068	28,173	49	931	-
Mains	Devon St	66	1976	100	2006	19,989	57	591	-
Mains	Devon St	95	1976	100	2076	27,718	57	819	-
Mains	Devon St	77	1976		2076	22,575		667	-
Mains	Devon St	20	1976		2076		57	176	-
Mains	Devon St	73	1968	100	2068			715	-
Mains	Devon St	81	1968	100	2068			797	-
Mains	Devon St	39	1976		2076		57 57	337	-
Mains	Devon St	51	1976		2076			438 272	-
Maine	Devon St	20	1070	400					
Mains Mains	Devon St	32 51	1976 1976		2076				
Mains	Devon St	51	1976	100	2076	14,912	57	441	-
				100 100		14,912 14,863	57		-
Mains Mains	Devon St Devon St	51 49	1976 1976	100 100 100	2076 2076	14,912 14,863 16,347	57 57	441 439	-



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Devon St	90	1976	100	2076	26,164	57	773	1
Mains	Devon St	68	1976	100	2076	19,800	57	585	-
Mains	Devon St	14	1976		2076	3,976	57	118	-
Mains	Devon St	107	1977	100	2077	31,084	58	910	-
Mains	Devon St	63	1976	100	2076	18,239 21,005	57	539	-
Mains Mains	Devon St  Devon St	72 81	2017 2017	100 100	2117 2117	23,543	98 98	491 550	-
Mains	Devon St	69	2017	100	2117	20,102	98	469	-
Mains	Devon St	97	2017	100	2117	28,280	98	660	-
Mains	Devon St	77	2017	100	2117	22,419	98	524	-
Mains	Devon St	72	1925	100	2025	21,005	6	suggested for 10 year capital forecast	21,005
Mains	Devon St	81	1925	100	2025	23,543	6	suggested for 10 year capital forecast	23,543
Mains	Devon St	97	1925	100	2025	28,280	6	suggested for 10 year capital forecast	28,280
Mains	Devon St	69	1925	100	2025	20,102 22,419	6	suggested for 10 year capital forecast	20,102
Mains Mains	Devon St Devon St	77 16	1925 1977	100 100	2025 2077	4,753	6 58	suggested for 10 year capital forecast 139	22,419
Mains	Devon St	12	1998	100	2077	3,499	79	88	
Mains	Devon St	20	2010	100	2110	5,908	91	142	-
Mains	Diana Ct	51	1966	100	2066	14,877	47	491	-
Mains	Dickens PI	66	1976	100	2076	20,208	57	597	-
Mains	Dickens PI	36	1976	100	2076	10,836	57	320	-
Mains	Dickens PI	17	1976	100	2076	5,200	57	154	-
Mains	Dingman PI	37	1996	100	2096	10,708	77	274	-
Mains Mains	Dingman PI Dingman PI	39 83	1996 1996	100 100	2096 2096	11,499 24,304	77 77	294 621	-
Mains	Dingman Pl	28	1996	100	2096	8,195	77	210	-
Mains	Dingman PI	19	1987	100	2087	5,454	68	147	-
Mains	Dixon Rd	10	1967	100	2067	2,960	48	97	-
Mains	Dixon Rd	33	1967	100	2067	9,757	48	318	•
Mains	Dixon Rd	96	1967	100	2067	28,049	48	914	•
Mains	Dixon Rd	100	1967	100	2067	29,244	48	953	-
Mains	Dorland Dr	109	1967	100	2067	31,870	48	1,039	-
Mains	Dorland Dr	99	1967	100	2067	28,863 32,147	48	941	-
Mains Mains	Douglas St Douglas St	94 109	1974 1921	100 100	2074 2021	31,808	55 2	969 suggested for 10 year capital forecast	31,808
Mains	Douglas St	70	1948	100	2021	20,439	29	936	31,000
Mains	Douglas St	70	1948	100	2048	20,369	29	932	-
Mains	Douglas St	115	1900	100	2019	34,880	0	suggested for 10 year capital forecast	34,880
Mains	Douglas St	108	1908	100	2019	32,744	0	suggested for 10 year capital forecast	32,744
Mains	Douglas St	95	1921	100	2021	27,614	2	suggested for 10 year capital forecast	27,614
Mains	Douglas St	130	1900	100	2019	39,456	0	suggested for 10 year capital forecast	39,456
Mains	Douglas St	104	1908	100	2019	31,612 114,075	0	suggested for 10 year capital forecast	31,612
Mains Mains	Douglas St Douglas St	83 59	2005 2005	100 100	2105 2105	107,666	86 86	2,790 2,633	-
Mains	Douglas St	126	2005	100	2105	172,041	86	4,207	-
Mains	Douglas St	125	2005	100	2105	170,441	86	4,168	-
Mains	Douglas St	58	2005	100	2105	17,002	86	416	-
Mains	Douglas St	8	2005	100	2105	2,192	86	54	-
Mains	Douglas St	55	2005	100	2105	16,042	86	392	-
Mains	Douglas St	6	2005	100	2105	1,716	86	42	-
Mains	Douglas St	59 62	2005		2105	17,133 18,178	86 81	419	-
Mains Mains	Douglas St Douglas St	75	2000 2000	100 100	2100 2100	21,790	81	455 545	
Mains	Douglas St	37	2000	100	2100	10,798	81	270	
Mains	Douglas St	60	2005		2105	17,422	86	426	-
Mains	Douglas St	127	2011	100	2111	37,083	92	885	-
Mains	Douglas St	114	2011	100	2111	33,369	92	796	-
Mains	Douglas St	48	1962	100	2062	13,859	43	484	-
Mains	Douglas St	57	1962	100	2062	16,606	43	579	-
Mains	Douro Pumping Station	11	1967 2017	100	2067	6,823 11,078	48 98	222 259	-
Mains Mains	Douro St Douro St	21 79	2017	100 100	2117 2117	40,847	98	954	
Mains	Douro St	86	2017	100	2117	44,860	98	1,048	-
Mains	Douro St	84	2017	100	2117	43,867	98	1,024	-
Mains	Douro St	84	2017	100	2117	43,609	98	1,018	•
Mains	Douro St	91	2017	100	2117	47,450	98	1,108	-
Mains	Douro St	73	2017	100	2117	38,069	98	889	-
Mains	Douro St	72	2017	100	2117	37,568 40,989	98	877	-
Mains Mains	Douro St	79 70	2017	100	2117	40,989 36,214	98 98	957 846	-
Mains Mains	Douro St  Douro St	70 73	2017 2017	100 100	2117 2117	36,214	98 98	846 881	-
Mains	Douro St	69	2017	100	2117	35,823	98	837	-
Mains	Douro St	70	2017	100	2117	36,394	98	850	-
Mains	Douro St	81	2017	100	2117	42,342	98	989	-
Mains	Douro St	92	2017	100	2117	47,667	98	1,113	-
Mains	Douro St	88	1966	100	2066	45,469	47	1,501	-
Mains	Douro St	91	1963	100	2063	47,450	44	1,632	-
Mains	Douro St	72	1964	100	2064	37,568	45	1,274	-
Mains Mains	Douro St	70	1965		2065	36,394 38,069	46 45	1,218	-
IIVIAINS	Douro St	73	1964	100	2064	<i>3</i> 8,069	45	1,291	-



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Asset	Street	Length (m)	Year Installed	Estimated	nitary Sev Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Douro St	84	1963		2063		44	1,508	-
Mains	Douro St	79	1963		2063		<del>                                     </del>	1,405	-
Mains	Douro St	21	1963		2063		+	381	-
Mains Mains	Douro St  Douro St	70 86	1965 1963		2065 2063			1,211 1,543	-
Mains	Douro St	92	1965		2063		47	1,545	-
Mains	Douro St	81	1965		2065		46	1,416	-
Mains	Douro St	69	1965	100	2065	35,823	46	1,198	-
Mains	Douro St	79	1964		2064	40,989		1,390	-
Mains	Douro St	84	1963		2063		<del>                                     </del>	1,500	-
Mains Mains	Douro St	73 29	1965		2065		<del>                                     </del>	1,261	- 0.040
Mains Mains	Douro St  Douro St	1	1912 1924		2019 2024	397		suggested for 10 year capital forecast suggested for 10 year capital forecast	8,849 397
Mains	Douro St	10			2019		0	suggested for 10 year capital forecast	2,977
Mains	Douro St	133	1912		2019		-	suggested for 10 year capital forecast	40,348
Mains	Douro St	122	1912	100	2019	37,169	0	suggested for 10 year capital forecast	37,169
Mains	Douro St	66	1912	100	2019		0	suggested for 10 year capital forecast	19,977
Mains	Douro St	70	1912		2019			suggested for 10 year capital forecast	21,279
Mains	Douro St	17	1999		2099			188	-
Mains Mains	Douro St	124	1982		2082		1	1,056	-
Mains Mains	Douro St  Douro St	27 83	1966 1915		2066 2019	-	47 0	314 suggested for 10 year capital forecast	25,381
Mains	Douro St	88	1915		2019	-	0	suggested for 10 year capital forecast	26,863
Mains	Douro St	87	1915		2019	<del>                                     </del>		suggested for 10 year capital forecast	26,464
Mains	Douro St	82	1915	100	2019	24,891	0	suggested for 10 year capital forecast	24,891
Mains	Douro St	92	1915	100	2019		0	suggested for 10 year capital forecast	27,961
Mains	Douro St	93	1915				+	suggested for 10 year capital forecast	28,203
Mains	Douro St	59						suggested for 10 year capital forecast	18,093
Mains Mains	Douro St	80	1915	1	2019			suggested for 10 year capital forecast	24,478
Mains Mains	Douro St  Dover St	220	1915 1923					suggested for 10 year capital forecast suggested for 10 year capital forecast	25,568 64,196
Mains	Downie St	47	1949					933	-
Mains	Downie St	19	1949	1	2049	<u> </u>	30	369	-
Mains	Downie St	51	1949					1,007	-
Mains	Downie St	41	1949	100	2049	18,007	30	804	-
Mains	Downie St	10	2018		2118			69	-
Mains	Downie St	92	2018	1	2118		99	652	-
Mains	Downie St	15	1913	1	2019	4,506 18,498	<del>'</del>	suggested for 10 year capital forecast	4,506
Mains Mains	Downie St  Downie St	61 16	1913 1913		2019 2019	4,635		suggested for 10 year capital forecast suggested for 10 year capital forecast	18,498 4,635
Mains	Downie St	26	1913		2019	7,683		suggested for 10 year capital forecast	7,683
Mains	Downie St	55	1913		2019	15,898		suggested for 10 year capital forecast	15,898
Mains	Downie St	142	1918	1	2019	43,102	0	suggested for 10 year capital forecast	43,102
Mains	Downie St	56	1918	100	2019		0	suggested for 10 year capital forecast	16,932
Mains	Downie St	115	1918		2019	34,904	0	suggested for 10 year capital forecast	34,904
Mains	Downie St	23	1959		2059	7,015		256	-
Mains	Downie St	106	1959		2059	30,958 1,414		1,132	- 4 44 4
Mains Mains	Downie St  Downie St	5 85	1920 1918	1	2020 2019	25,802		suggested for 10 year capital forecast suggested for 10 year capital forecast	1,414 25,802
Mains	Downie St	31	1916		2019			suggested for 10 year capital forecast	9,366
Mains	Downie St	41	1923		2023	11,399		suggested for 10 year capital forecast	11,399
Mains	Downie St	41	1923		2023	11,544	4	suggested for 10 year capital forecast	11,544
Mains	Downie St	102	1913	100	2019	30,971	0	suggested for 10 year capital forecast	30,971
Mains	Downie St	117	1918		2019	35,580		suggested for 10 year capital forecast	35,580
Mains	Downie St	81	1918		2019	24,546	+	suggested for 10 year capital forecast	24,546
Mains Mains	Downie St  Downie St	92	1912 2002		2019 2102	28,007 3,966	83	suggested for 10 year capital forecast 98	28,007
Mains Mains	Downie St  Downie St	93	1983		2102	28,253			-
Mains	Downie St	15	1983		2083	5,269	0.	147	-
Mains	Downie St	97	1983		2083	33,272		926	-
Mains	Downie St	104	1983		2083	35,678	64	993	-
Mains	Downie St	85	1983	100	2083	28,973	64	807	-
Mains	Downie St	69	1986		2086		<del>'</del>	550	-
Mains	Downie St	10					<del>                                     </del>	82	-
Mains Mains	Downie St	102	1983				1	975	-
Mains Mains	Downie St  Downie St	13	1983 1983			<del></del>	64 64	121 73	-
Mains	Downie St	79			2069			73	
Mains	Downie St	112						1,085	-
Mains	Downie St	62	1912	1				suggested for 10 year capital forecast	21,175
	Downie St	40	1912					suggested for 10 year capital forecast	13,785
Mains		1	1992	100			-	1,926	-
Mains Mains	Dufferin St	70		1		82,574	73	2,161	-
Mains Mains Mains	Dufferin St Dufferin St	79	1992						
Mains Mains Mains Mains	Dufferin St Dufferin St Dufferin St	79 69	1992 1992	100	2092	72,740	73	1,903	-
Mains Mains Mains Mains Mains	Dufferin St Dufferin St Dufferin St Dufferin St	79 69 106	1992 1992 1914	100 100	2092 2019	72,740 32,270	73	1,903 suggested for 10 year capital forecast	- 32,270
Mains Mains Mains Mains Mains Mains Mains	Dufferin St Dufferin St Dufferin St Dufferin St Dufferin St	79 69 106 92	1992 1992 1914 1914	100 100 100	2092 2019 2019	72,740 32,270 27,947	73 0 0	1,903 suggested for 10 year capital forecast suggested for 10 year capital forecast	- 32,270 27,947
Mains Mains Mains Mains Mains	Dufferin St Dufferin St Dufferin St Dufferin St	79 69 106	1992 1992 1914	100 100 100 100	2092 2019 2019 2019	72,740 32,270 27,947 14,634	73 0 0	1,903 suggested for 10 year capital forecast	- 32,270
Mains Mains Mains Mains Mains Mains Mains Mains Mains	Dufferin St Dufferin St Dufferin St Dufferin St Dufferin St Dufferin St	79 69 106 92 48	1992 1992 1914 1914 1914	100 100 100 100 100	2092 2019 2019 2019 2019	72,740 32,270 27,947 14,634 33,229	73 0 0 0	1,903 suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast	- 32,270 27,947 14,634



Asset					nitary Sev	9.0			
	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Dufferin St	24	2008	100	2108	7,042	89	170	-
Mains	Dufferin St	13	2015	100	2115		96	88	-
Mains	Dufferin St	51 90	2015 2015	100	2115		96 96	351 617	-
Mains Mains	Dufferin St  Dufferin St	72	1966	100 100	2115 2066		47	695	-
	Dufferin St	74	1966	100	2066		47	712	-
	Dufferin St	74	1966	100	2066		47	717	-
	Dufferin St	74 13	1966	100	2066		47 51	713	-
	Duke St Duke St	118	1970 1913	100 100	2070 2019		0	suggested for 10 year capital forecast	35,797
	Duke St	111	1913	100	2019		0	suggested for 10 year capital forecast	33,700
	Dunlop PI	65	1991	100	2091	18,974	72	500	-
	Dunlop PI Dunlop PI	80 64	1991 2009	100 100	2091 2109	23,332 18,787	72 90	614 452	-
	Dunn Rd	487	2002	100	2102	277,914	83	6,890	-
Mains	Dunn Rd	12	2001	100	2101	3,352	82	84	-
	Dunn Rd	12	2001	100	2101	3,241	82	81	-
	Dunn Rd Dunn Rd	17 4	2001 2001	100 100	2101 2101	4,839 1,031	82 82	121 26	-
Mains	Dunn Rd	1	2001	100	2101	154	82	4	-
Mains	Dunn Rd	2	2001	100	2101	583	82	15	-
	Dunn Rd	12	2001	100	2101	3,453	82	86	-
Mains Mains	Dunn Rd Dunn Rd	8 64	2001 2001	100 100	2101 2101	2,397 27,735	82 82	60 691	-
	Dunn Rd	12	2001	100	2101	3,321	82	83	-
	Dunn Rd	39	2001	100	2101	16,769	82	418	-
	Dunn Rd	4	2001	100	2101	1,732	82	43	-
	Dunn Rd Dunn Rd	31 83	2001 2001	100 100	2101 2101	8,657 35,732	82 82	216 890	-
	Dunn Rd	12	2001	100	2101	3,293	83	890	-
	Dunn Rd	12	2001	100	2101	3,317	82	83	-
	Dunn Rd	53	2001	100	2101	15,332	82	382	-
	Dunn Rd Dunn Rd	6 17	2001 2001	100 100	2101 2101	1,576 7,325	82 82	39 182	-
	Dunn Rd	35	2001	100	2101	14,939	82	372	-
	Dunn Rd	21	2001	100	2101	6,041	82	150	-
	Dunn Rd	12	2001	100	2101	3,423	82	85	-
	Dunn Rd Dunn Rd	12 26	2001 2001	100 100	2101 2101	3,241 11,030	82 82	81 275	-
	Dunn Rd	89	2001	100	2101	38,150	82	950	-
Mains	Dunn Rd	60	2001	100	2101	17,479	82	435	-
Mains	Dunn Rd	17	2002	100	2102	5,027	83	125	-
	Dunn Rd Dunn Rd	86 12	2001 2001	100 100	2101 2101	25,044 3,352	82 82	624 84	-
	Dunn Rd	3	2001	100	2101	729	82	18	-
Mains	Dunn Rd	12	2001	100	2101	3,212	82	80	-
	Dunn Rd	59	2001 2001	100	2101	17,322 5,984	82 82	432	-
Mains Mains	Dunn Rd Eagle Dr	21 68	1998	100 100	2101 2098		79	149 498	-
Mains	Eagle Dr	15	1998	100	2098		79	110	-
Mains	Eagle Dr	14	1998	100	2098		79	107	-
Mains Mains	Eagle Dr Eagle Dr	76 47	1998 1998	100 100	2098 2098		79 79	559 345	-
Mains	Earl St	63	1909	100	2098		0	suggested for 10 year capital forecast	19,124
Mains	Earl St	122	1909	100	2019	37,029	0	suggested for 10 year capital forecast	37,029
Mains	Earl St	101	1909	100	2019		0	suggested for 10 year capital forecast	30,737
Mains Mains	Earl St Easson St	15 82	2003 1956	100 100	2103 2056		84 37	113 920	-
Mains	Easson St	84	1956	100	2056		37	947	
Mains	Easson St	82	1956	100	2056	23,961	37	923	-
Mains	Easson St	81	1956	100	2056		37	913	-
Mains Mains	Easson St Easson St	92 88	1954 1954	100 100	2054 2054		35 35	1,078 1,022	-
Mains	Easson St	87	1954	100	2054		35	1,019	
Mains	East Gore St	79	1987	100	2087	22,882	68	619	-
Mains	East Gore St	79	1987	100	2087	23,166 23,483	68	626	-
Mains Mains	East Gore St Edison Cres	81 88	1987 1991	100 100	2087 2091	25,688	68 72	635 676	-
	Edison Cres	72		100	2091	20,851	72	549	-
Mains	Edison Cres	74	1991	100	2091	21,689	72	571	-
Mains	Egan Crcl	50		100	2078		59	424	-
Mains Mains	Elgin Cres Elgin Cres	115 81	1964 1964	100 100	2064 2064		45 45	1,185 831	-
Mains	Elgin Cres	82	1964	100	2064		45	841	-
Mains	Elgin Cres	81	1964	100	2064	24,599	45	834	-
Mains	Elgin Cres	90		100	2064		45	925	-
Mains Mains	Elgin Cres Elgin Cres	97 50	1964 1964	100 100	2064 2064		45 45	996 520	-
Mains	Elgin Cres	94	1964	100	2064		45	969	-
	Elgin Cres	93	1964	100	2064		45	957	-



Sanitary Sewers Amount to Replace **Total Main** Estimated be included Length Year Years until Replacement Street Asset **Annual Lifecycle Contribution** ment Replacement Installed Life in 10 year (m) Year Costs **Forecast** Elizabeth St 4,995 Mains 17 1972 100 53 154 17,358 Mains Elizabeth St 60 100 83 430 Elizabeth St 17,882 Mains 61 2002 100 2102 83 443 26,376 Mains Elizabeth St 90 2002 100 2102 83 654 26,153 Mains Elizabeth St 90 2002 100 2102 83 648 5,047 Elizabeth St 100 Mains 17 1971 2071 52 157 4,449 100 Mains Elizabeth St 15 1970 2070 51 140 25,727 100 Mains Elizabeth St 85 1920 2020 suggested for 10 year capital forecast 25,727 26,743 100 Mains Elizabeth St 88 1920 2020 suggested for 10 year capital forecas 26,743 26,825 Mains Elizabeth St 88 1920 100 2020 suggested for 10 year capital forecast 26,825 52,766 100 88 Mains Elm St 102 2007 2107 1,279 52,362 100 1,269 Mains Elm St 101 2007 2107 88 14,318 100 2107 347 Mains Elm St 49 2007 88 14,248 100 345 Mains Elm St 49 2007 2107 88 4,799 51 151 Mains Erie St 8 1970 100 2070 8,067 28 1970 100 2070 51 254 Mains Erie St 29,295 1912 29,295 96 100 2019 Mains Erie St suggested for 10 year capital forecast 8,759 29 1915 100 2019 8,759 Mains Erie St suggested for 10 year capital forecast 10,412 36 1921 100 2021 suggested for 10 year capital forecast 10,412 Mains Erie St 21,193 2021 Erie St 100 21,193 Mains 70 1921 suggested for 10 year capital forecast 26,785 Erie St Mains 88 1921 100 2021 suggested for 10 year capital forecast 26,785 36,855 Mains Erie St 121 1921 100 2021 suggested for 10 year capital forecast 36,855 100 24,314 24,314 Mains Erie St 80 1912 2019 suggested for 10 year capital forecast Erie St 17,255 100 17,255 Mains 57 1912 2019 suggested for 10 year capital forecast 28,105 Erie St 82 100 2061 42 Mains 1961 8,444 Erie St 1915 100 2019 suggested for 10 year capital forecast 8,444 Mains 28 18,176 Mains Erie St 51 1961 100 2061 42 644 Erie St 61 100 21,708 41 781 1960 2060 Mains 38,488 100 41 Erie St 89 1960 2060 1,384 Mains 37,109 suggested for 10 year capital forecast Mains Erie St 122 1906 100 2019 37,109 33,970 suggested for 10 year capital forecast Mains Erie St 112 1912 100 2019 33,970 30,257 Mains Erie St 99 1912 100 2019 suggested for 10 year capital forecast 30,257 Mains Erie St 65 1912 100 2019 19,715 suggested for 10 year capital forecast 19,715 2,733 Mains Erie St 9 1955 100 2055 36 1,631 2019 suggested for 10 year capital forecast 1,631 Mains Erie St 5 1912 100 29,737 2061 42 Mains Erie St 87 1961 100 1,053 39,587 41 Mains Erie St 92 1960 100 2060 1,424 -39,571 Mains Erie St 92 1960 100 2060 41 1,423 Erie St 91 1960 100 2060 32,462 41 Mains 3,175 Mains Erie St 11 1924 100 2024 suggested for 10 year capital forecast 3,175 2,398 Mains Erie St 8 1921 100 2021 suggested for 10 year capital forecast 2,398 2,160 Mains Erie St 7 1921 100 2021 suggested for 10 year capital forecast 2,160 26,098 Mains Erie St 86 1961 100 2061 42 30,475 Mains Erie St 89 1961 100 2061 42 1,079 32,920 100 Mains Erie St 93 1960 2060 41 1,184 35,356 100 Mains Erie St 121 1924 2024 suggested for 10 year capital forecast 35,356 3,635 100 Mains Erie St 12 1947 2047 28 171 8,629 Mains Erie St 28 1912 100 2019 suggested for 10 year capital forecast 8,629 10,977 Mains Erie St 38 1924 100 2024 suggested for 10 year capital forecast 10,977 30,581 100 2106 Mains Erie St 32 2006 87 745 45,199 100 2106 1,100 Mains Erie St 47 2006 87 75,742 2106 100 Mains Erie St 79 2006 87 1,844 86,547 100 Mains Erie St 90 2006 2106 87 2,107 12,748 Mains 87 310 Erie St 13 2006 100 2106 78,758 2106 Mains Erie St 82 100 87 1,918 2006 12 11,107 100 2106 87 270 Mains Erie St 2006 6,983 7 100 2106 87 170 Mains Erie St 2006 74,024 77 1,802 100 2106 87 Mains Erie St 2006 Erie St 23,422 80 100 87 Mains 2006 2106 570 4,988 100 2106 87 121 Mains Erie St 17 2006 61 2006 2106 17,780 87 433 Mains Erie St 100 2106 3,404 Mains 10 2006 100 87 83 Erie St 25,025 2101 86 2001 100 82 623 Mains Erie St 14,501 1997 100 2097 78 369 Mains Erie St 50 984 Erie St 100 2106 87 Mains 3 2006 24 9,180 Erie St 31 2001 100 2101 82 229 Mains Erie St 17 2006 100 2106 5,925 87 144 Mains 2106 63,284 1,541 Mains Erie St 66 2006 100 87 100 2097 6,578 Mains Erie St 23 1997 78 167 100 2106 15,473 87 Mains Erie St 53 2006 377 12,230 36 100 2109 90 294 Mains Erie St 2009 38,777 Mains Erie St 133 2011 100 2111 92 925 44 2011 100 2111 15,036 92 359 Mains Erie St 9,535 28 2011 100 2111 92 227 Mains Erie St 5 1954 100 2054 1,423 35 57 Mains Erie St 13,929 46 1954 100 2054 35 557 Mains Erie St 23,822 Mains Erie St 82 1970 100 2070 51 749 Mains Erie St 61 1963 100 2063 17,652 44 607 18,475 Mains Erie St 63 1970 100 2070 51 581 24,266 Mains Erie St 83 1970 100 2070 51 763



Applied   Part					Sa	nitary Sew	ers			
September   Color	Asset	Street				ment	Replacement		Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
September   Color	Mains	Frie St	82	1970	100	2070	23.912	51	752	_
Marrie										
September   Sept							-			29,874
Memory   Capacity										-
Marie   Cartello										
Marie   Pariet D								l		_
Marie										
Marie   Carled Di							-	l		
Marie   Patriel D								_		-
Description										-
Description   September   Se							-			-
Death										-
Maries								-		-
Description   Familiard Dr										-
Marie   Particle D										-
Marine								_		-
Marie   Fainfeld D								_		-
Manistron   Fartfield Dr							-	<b>.</b>		-
Marien								i		-
Marie							-	, , , , , , , , , , , , , , , , , , ,		-
Marie								_		-
Marin										-
Maries							-			-
Maries									906	-
Salaria   Fascist St										-
Marine	Mains	Falstaff St	120	1920	100	2020	-		suggested for 10 year capital forecast	36,483
Mains			128		100			l	suggested for 10 year capital forecast	38,796
Mains	Mains	Falstaff St	130	1920	100	2020	39,454	1	suggested for 10 year capital forecast	39,454
Maintern	Mains	Falstaff St	103	1920	100	2020	31,219	1	suggested for 10 year capital forecast	31,219
Mains	Mains	Feick Cres	77	1962	100	2062	22,382	43	781	-
Mains	Mains	Feick Cres	73	1962	100	2062	21,357	43	745	-
Mains	Mains	Feick Cres	47	1962	100	2062	13,753	43	480	-
Mains	Mains	Feick Cres	49	1962	100	2062	17,222	43	601	-
Marins Fends	Mains	Feick Cres	75	1962	100	2062	26,446	43	923	-
Mains         Fam St         453         1966         100         2065         27.219         46         911           Mains         Finday PI         7         2006         100         2210         1,895         87         66           Mains         Finday PI         20         2010         100         2110         2,100         91         111         141           Mains         Finday PI         97         2010         100         2110         1,2008         91         505           Mains         Finday PI         67         2010         100         2275         8,100         91         400           Mains         Forman Ave         23         1175         100         2075         2,565         56         77           Mains         Forman Ave         71         1859         100         2059         39,071         40         1,387           Mains         Forman Ave         75         1899         100         2059         39,271         40         1,380           Mains         Forman Ave         72         1859         100         2059         37,211         40         1,380           Mains         Forman			74	1962	100	2062	26,332	43	919	-
Mains	Mains	Fern St	93	1965	100	2065	27,219		911	-
Mains   Findiary Pf   20   2010   100   2110   5,901   91   141		Findlay PI			100		1,895			-
Mains   Findiago Pr			20			2110	5,901		141	-
Mains   Findlay P    67   2010   100   2110   19,571   91   469   Mains   Forman Ave   28   1975   100   2075   2,565   56   244   Mains   Forman Ave   9   1975   100   2075   2,565   56   77   7   7   7   7   7   7   7   7		*					21,088		505	-
Names   Forman Ave   28   1975   100   2075   8,190   56   244   Names   Forman Ave   71   1959   100   2075   2,565   56   777   Names   Forman Ave   77   1959   100   2059   37,121   40   1,357   Names   Forman Ave   78   1959   100   2059   33,071   40   1,360   Names   Forman Ave   72   1959   100   2059   33,071   40   1,360   Names   Forman Ave   72   1959   100   2059   33,071   40   1,360   Names   Forman Ave   119   1959   100   2059   61,715   40   2,256   Names   Forman Ave   86   1959   100   2059   61,715   40   2,256   Names   Forman Ave   86   1959   100   2059   61,715   40   1,631   Names   Forman Ave   27   1959   100   2059   13,736   40   1,631   Names   Forman Ave   104   1958   100   2059   13,736   40   1,631   Names   Forman Ave   10   1962   100   2059   13,736   40   1,631   Names   Forman Ave   10   1962   100   2062   2,863   43   1103   Names   Forman Ave   40   1962   100   2062   1,3521   43   472   Names   Forman Ave   68   1962   100   2062   2,283   43   706   Names   Forman Ave   69   1962   100   2062   2,233   43   774   Names   Forman Ave   69   1962   100   2062   2,233   43   774   Names   Forman Ave   69   1962   100   2062   2,233   43   774   Names   Forman Ave   69   1961   100   2062   1,3521   43   30   Names   Forman Ave   69   1961   100   2062   1,3521   43   30   Names   Forman Ave   69   1961   100   2062   1,3521   43   30   Names   Forman Ave   69   1961   100   2062   1,3521   43   30   Names   Forman Ave   69   1961   100   2062   1,3521   43   30   Names   Forman Ave   68   1991   100   2062   1,3621   72   333   Names   Forman Ave   68   1991   100   2061   2,041   72   333   Names   Forman Ave   68   1991   100   2061   2,041   72   333   Names   Forman Ave   68   1991   100   2069   2,015   50   83   Names   Forman Ave   68   1991   100   2069   2,015   50   83   Names   Forman Ave   68   1991   100   2069   2,015   50   83   Names   Forman Ave   68   1991   100   2069   2,015   50   83   Names   Forman Ave   68   1991   100   2069   2,015   50   83   N							19,571	1		-
Mains   Forman Ave   9   1975   100   2075   2,055   56   77							8,190			-
Names   Forman Ave   71   1959   100   2089   37.121   40   1.337   Names   Forman Ave   75   1989   100   2089   39.071   40   1.428   Names   Forman Ave   72   1956   100   2089   37.211   40   1.360   Names   Forman Ave   119   1959   100   2089   37.211   40   1.360   Names   Forman Ave   119   1959   100   2089   61.715   40   1.360   Names   Forman Ave   86   1999   100   2089   13.796   40   1.361   Names   Forman Ave   22   1956   100   2089   13.796   40   504   Names   Forman Ave   104   1989   100   2089   13.796   40   1.361   Names   Forman Ave   104   1989   100   2089   13.796   40   1.361   Names   Forman Ave   104   1989   100   2089   13.796   40   1.361   Names   Forman Ave   104   1980   100   2089   13.796   40   1.361   Names   Forman Ave   104   1962   100   2082   2.963   43   1.03   Names   Forman Ave   40   1962   100   2062   2.963   43   1.03   Names   Forman Ave   68   1962   100   2062   20.222   43   776   Names   Forman Ave   68   1962   100   2062   27.255   43   7742   Names   Forman Ave   68   1962   100   2062   27.255   43   7742   Names   Forman Ave   106   1962   100   2062   27.255   43   7742   Names   Forman Ave   106   1962   100   2062   27.255   43   7742   Names   Forman Ave   106   1962   100   2062   27.255   43   7742   Names   Forman Ave   106   1962   100   2062   27.255   43   7742   Names   Forman Ave   106   1962   100   2062   27.255   43   7742   Names   Forman Ave   68   1991   100   2091   20.255   72   5.355   Names   Forman Ave   68   1991   100   2091   27.255   72   5.355   Names   Forman Ave   68   1991   100   2091   27.325   72   5.355   Names   Forman Ave   68   1991   100   2091   27.325   72   5.355   Names   Forman Ave   68   1991   100   2091   27.325   72   5.355   Names   Forman Ave   68   1991   100   2091   27.325   72   5.355   Names   Forman Ave   68   1991   100   2091   27.325   72   5.355   Names   Forman Ave   68   1991   100   2091   27.325   72   5.355   Names   Forman Ave   68   1991   100   2091   27.325   72   5.355   Names   F							2,565			-
Mains   Forman Ave   75   1999   100   2099   39.071   40   1.428										-
Mains   Forman Ave   119   1959   100   2099   37,711   40   1,360   1,360   1,361								1	· · · · · · · · · · · · · · · · · · ·	-
Mains   Forman Ave   119   1969   100   2069   61.75   40   2.256   Mains   Forman Ave   86   1959   100   2069   44.622   40   1.631   Mains   Forman Ave   27   1959   100   2059   13.786   40   504   Mains   Forman Ave   104   1959   100   2059   53.866   40   1.998   Mains   Forman Ave   10   1962   100   2062   2.963   43   103   Mains   Forman Ave   40   1962   100   2062   2.963   43   103   Mains   Forman Ave   40   1962   100   2062   2.963   43   706   Mains   Forman Ave   69   1962   100   2062   20.222   43   706   Mains   Forman Ave   69   1962   100   2062   21.255   43   742   Mains   Forman Ave   69   1962   100   2062   21.255   43   742   Mains   Forman Ave   69   1962   100   2062   21.255   43   742   Mains   Forman Ave   69   1962   100   2062   21.255   43   742   Mains   Forman Ave   69   1962   100   2062   21.255   43   742   Mains   Forman Ave   69   1962   100   2062   21.255   43   742   742   742   742   742   742   743   744							37,211			-
Mains         Forman Ave         86         1959         100         2059         44,622         40         1,631           Marins         Forman Ave         27         1959         100         2059         53,856         40         1,631           Mains         Forman Ave         104         1950         100         2005         53,856         40         1,696           Mains         Forman Ave         10         1962         100         2002         2,963         43         103           Mains         Forman Ave         40         1962         100         2002         20,222         43         706           Mains         Forman Ave         69         1962         100         2002         20,222         43         706           Mains         Forman Ave         69         1962         100         2002         21,253         43         772           Mains         Forman Ave         62         1962         100         2002         11,188         43         390           Mains         Forman Ave         69         1991         100         2201         12,144         72         536           Mains         Forman Ave <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>										-
Mains         Forman Ave         27         1959         100         2059         13,796         40         504           Mains         Forman Ave         104         1959         100         2056         3,3766         40         1,969           Mains         Forman Ave         10         1962         100         2062         2,953         43         1013           Mains         Forman Ave         40         1962         100         2062         2,953         43         1013           Mains         Forman Ave         69         1962         100         2062         20,222         43         706           Mains         Forman Ave         69         1962         100         2062         21,223         43         742           Mains         Forman Ave         69         1962         100         2062         21,283         43         742           Mains         Forman Ave         106         1982         100         2062         38,345         43         1,268           Mains         Forman Ave         69         1991         100         2061         20,114         72         536           Mains         Forman Ave <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td>										_
Mains   Forman Ave   104   1950   100   2059   53.866   40   1,980   Mains   Forman Ave   10   1962   100   2062   2,963   43   103   103   Mains   Forman Ave   40   1962   100   2062   20,222   43   706   Mains   Forman Ave   68   1962   100   2062   20,222   43   706   Mains   Forman Ave   62   1962   100   2062   21,253   43   742   Mains   Forman Ave   33   1962   100   2062   21,253   43   742   Mains   Forman Ave   33   1962   100   2062   21,253   43   742   Mains   Forman Ave   106   1962   100   2062   36,345   43   1,268   Mains   Forman Ave   106   1962   100   2062   36,345   43   1,268   Mains   Forman Ave   69   1991   100   2091   20,114   72   530   Mains   Forman Ave   70   1991   100   2091   20,325   72   535   Mains   Forman Ave   68   1991   100   2091   20,325   72   525   Mains   Forman Ave   68   1991   100   2091   19,927   72   525   Mains   Forman Ave   9   1960   100   2069   2,615   50   83   Mains   Forman Ave   9   1960   100   2069   2,615   50   83   Mains   Forman Ave   25   1968   100   2069   7,339   50   234   Mains   Forman Ave   64   1966   100   2062   21,138   43   738   Mains   Forman Ave   64   1962   100   2062   27,402   43   956   Mains   Forman Ave   48   1962   100   2062   27,402   43   956   Mains   Forman Ave   48   1962   100   2062   27,402   43   956   Mains   Forman Ave   48   1962   100   2062   27,402   43   956   Mains   Forman Ave   48   1962   100   2062   27,402   43   956   Mains   Forman Ave   48   1962   100   2062   27,402   43   950   Mains   Forman Ave   48   1962   100   2062   27,402   43   956   Mains   Forman Ave   48   1962   100   2062   27,402   43   956   Mains   Forman Ave   48   1962   100   2062   27,402   43   950   Mains   Forman Ave   48   1962   100   2062   27,402   43   956   Mains   Forman Ave   48   1962   100   2062   27,402   43   956   Mains   Forman Ave   48   1962   100   2062   27,402   43   956   Mains   Forman Ave   48   1962   100   2062   27,402   43   956   Mains   Franklin Dr   97   1971   100   2071   20,719   5								_		-
Mains   Forman Ave   10   1962   100   2062   2,983   43   103   Mains   Forman Ave   40   1962   100   2062   20,222   43   706   Mains   Forman Ave   66   1962   100   2062   20,222   43   706   Mains   Forman Ave   66   1962   100   2062   21,233   43   742   Mains   Forman Ave   62   1962   100   2062   21,233   43   742   Mains   Forman Ave   106   1962   100   2062   21,233   43   390   Mains   Forman Ave   106   1962   100   2062   21,233   43   390   Mains   Forman Ave   106   1962   100   2062   36,345   43   1,268   Mains   Forman Ave   66   1991   100   2091   20,114   72   530   Mains   Forman Ave   77   1991   100   2091   20,114   72   533   Mains   Forman Ave   68   1991   100   2091   20,325   72   535   Mains   Forman Ave   68   1991   100   2091   20,325   72   535   Mains   Forman Ave   68   1991   100   2091   20,325   72   535   Mains   Forman Ave   68   1991   100   2091   20,339   72   535   Mains   Forman Ave   68   1991   100   2091   20,339   72   535   Mains   Forman Ave   68   1991   100   2091   20,339   72   72   535   Mains   Forman Ave   9   1969   100   2069   7,339   50   2,344   Mains   Forman Ave   25   1969   100   2069   7,339   50   2,344   Mains   Forman Ave   64   1962   100   2069   7,339   50   2,344   Mains   Forman Ave   64   1962   100   2062   21,138   43   738   Mains   Forman Ave   64   1962   100   2062   21,138   43   738   Mains   Forman Ave   64   1962   100   2062   27,402   43   9,966   Mains   Forman Ave   64   1962   100   2062   26,362   43   9,200   Mains   Forman Ave   48   1962   100   2062   26,362   43   9,200   Mains   Forman Ave   48   1962   100   2062   26,362   43   9,200   Mains   Forman Ave   48   1962   100   2062   26,362   43   9,200   Mains   Forman Ave   48   1962   100   2062   26,362   43   9,200   Mains   Forman Ave   48   1962   100   2062   26,362   43   9,200   Mains   Franklin Dr   91   1971   100   2071   20,979   52   655   655   655   655   655   655   655   655   655   655   655   655   655   655   655   655   655   655   65										-
Mains         Forman Ave         40         1962         100         2062         13,521         43         472           Mains         Forman Ave         69         1962         100         2062         20,222         43         706           Mains         Forman Ave         62         1962         100         2062         21,255         43         742           Mains         Forman Ave         106         1962         100         2062         21,255         43         742           Mains         Forman Ave         106         1962         100         2062         30,345         43         1,268           Mains         Forman Ave         69         1991         100         2091         20,114         72         530           Mains         Forman Ave         69         1991         100         2091         20,325         72         538           Mains         Forman Ave         68         1991         100         2091         19,927         72         525           Mains         Forman Ave         9         1969         100         2069         2,615         50         33           Mains         Forman Ave										-
Mains         Forman Ave         69         1962         100         2062         20,222         43         706           Mains         Forman Ave         62         1962         100         2062         21,253         43         742           Mains         Forman Ave         33         1962         100         2062         21,188         43         390           Mains         Forman Ave         106         1962         100         2062         36,345         43         1,268           Mains         Forman Ave         69         1991         100         2091         20,114         72         530           Mains         Forman Ave         69         1991         100         2091         20,325         72         535           Mains         Forman Ave         68         1991         100         2091         19,927         72         525           Mains         Forman Ave         9         1969         100         2069         2,615         50         83           Mains         Forman Ave         64         1969         100         2069         18,745         50         597           Mains         Forman Ave										_
Mains         Forman Ave         62         1962         100         2062         21,253         43         742           Mains         Forman Ave         33         1962         100         2062         11,188         43         390           Mains         Forman Ave         106         1962         100         2062         33,345         43         1,268           Mains         Forman Ave         69         1991         100         2091         20,114         72         530           Mains         Forman Ave         70         1991         100         2091         20,325         72         535           Mains         Forman Ave         68         1991         100         2091         20,325         72         525           Mains         Forman Ave         9         1969         100         2069         2,615         50         83           Mains         Forman Ave         25         1969         100         2069         7,339         50         2234           Mains         Forman Ave         48         1962         100         2062         21,138         43         738           Mains         Forman Ave							-			_
Mains         Forman Ave         33         1962         100         2062         11,188         43         390           Mains         Forman Ave         106         1962         100         2062         36,345         43         1,288           Mains         Forman Ave         69         1991         100         2091         20,114         72         530           Mains         Forman Ave         70         1991         100         2091         20,325         72         535           Mains         Forman Ave         68         1991         100         2091         19,927         72         525           Mains         Forman Ave         9         1969         100         2069         2,615         50         83           Mains         Forman Ave         9         1969         100         2069         2,615         50         83           Mains         Forman Ave         64         1969         100         2069         18,745         50         597           Mains         Forman Ave         48         1962         100         2062         21,138         43         738           Mains         Forman Ave										_
Mains         Forman Ave         106         1962         100         2062         36,345         43         1,268           Mains         Forman Ave         69         1991         100         2091         20,114         72         530           Mains         Forman Ave         70         1991         100         2091         20,114         72         535           Mains         Forman Ave         68         1991         100         2091         20,325         72         535           Mains         Forman Ave         68         1991         100         2091         19,927         72         525           Mains         Forman Ave         9         1969         100         2069         2,615         50         83           Mains         Forman Ave         64         1969         100         2069         7,339         50         224           Mains         Forman Ave         48         1962         100         2062         21,138         43         738           Mains         Forman Ave         64         1962         100         2062         27,402         43         920           Mains         Forman Ave										_
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Mains         Forman Ave         64         1969         100         2069         18,745         50         597           Mains         Forman Ave         48         1962         100         2062         21,138         43         738           Mains         Forman Ave         64         1962         100         2062         27,402         43         956           Mains         Forman Ave         61         1962         100         2062         26,362         43         920           Mains         Forman Ave         48         1962         100         2062         20,836         43         727           Mains         Franklin Dr         91         1971         100         2071         26,414         52         822           Mains         Franklin Dr         72         1971         100         2071         20,414         52         822           Mains         Franklin Dr         72         1971         100         2071         20,414         52         653           Mains         Franklin Dr         58         2000         100         2100         6,676         81         167           Mains         Franklin Dr										
Mains         Forman Ave         48         1962         100         2062         21,138         43         738           Mains         Forman Ave         64         1962         100         2062         27,402         43         956           Mains         Forman Ave         61         1962         100         2062         26,362         43         920           Mains         Forman Ave         48         1962         100         2062         20,836         43         727           Mains         Forman Ave         48         1962         100         2062         20,836         43         727           Mains         Franklin Dr         91         1971         100         2062         20,836         43         727           Mains         Franklin Dr         91         1971         100         2071         26,414         52         822           Mains         Franklin Dr         23         2000         100         2100         6,676         81         167           Mains         Franklin Dr         58         2000         100         2100         16,847         81         422           Mains         Franklin Dr										_
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										29,031
The state of the s										28,867
Mains   Frederick St   76   1921   100   2021   22,128   2   suggested for 10 year capital forecast   22,	Mains	Frederick St	76	1921	100	2021	22,128	2	suggested for 10 year capital forecast	22,128



					y of Stratf nitary Sev				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Frederick St	75	1921	100	2021	21,804	2	suggested for 10 year capital forecast	21,804
Mains	Frederick St	29	1966	100	2066		47	276	-
Mains	Freeland Dr	65	1979	100	2079		60	639	-
Mains Mains	Freeland Dr Freeland Dr	39 26	1979 1988	100 100	2079 2088		60 69	384 200	-
Mains	Freeland Dr	49	1988	100	2088		69	382	-
Mains	Freeland Dr	31	1989	100	2089		70	279	-
Mains	Freeland Dr	70	1989	100	2089		70	634	-
Mains	Freeland Dr	61	1989	100	2089		70	492	-
Mains Mains	Freeland Dr Freeland Dr	46 51	1989 1989	100 100	2089 2089		70 70	417 462	-
Mains	Freeland Dr	81	1989	100	2089		70	742	-
Mains	Freeland Dr	86	1989	100	2089	29,277	70	781	-
Mains	Freeland Dr	50	1989	100	2089		70	453	-
Mains	Freeland Dr	39	1989	100	2089		70 70	314	-
Mains Mains	Freeland Dr Freeland Dr	38 48	1989 1989	100 100	2089 2089		70	311 436	-
Mains	Freeland Dr	11	1989	100	2089		70	103	-
Mains	Front St	79	1919	100	2019		0	suggested for 10 year capital forecast	24,096
Mains	Front St	99	1912	100	2019		0	suggested for 10 year capital forecast	29,997
Mains	Front St Front St	84 92	1920 1912	100 100	2020 2019		0	suggested for 10 year capital forecast	25,688
Mains Mains	Front St	92	1912	100	2019	-	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	27,888 2,624
Mains	Front St	80	1912	100	2019		0	suggested for 10 year capital forecast	24,409
Mains	Front St	49	1921	100	2021	66,881	2	suggested for 10 year capital forecast	66,881
Mains	Front St	87	1965	100	2065		46	852	-
Mains	Front St Front St	89 98	1965 1965	100 100	2065 2065		46 46	871 957	-
Mains Mains	Front St	13	1897	100	2003		0	suggested for 10 year capital forecast	4,583
Mains	Galt Rd	87	1977	100	2077	25,356	58	743	-
Mains	Galt Rd	83	1987	100	2087		68	652	-
Mains	Gemmell Ct	93	1993	100	2093		74	707	-
Mains Mains	George St E George St E	99 103	1896 1921	100 100	2019 2021	35,054 140,539	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	35,054 140,539
Mains	George St E	103	1896	100	2021		0	suggested for 10 year capital forecast	6,666
Mains	George St W	48	1921	100	2021	65,087	2	suggested for 10 year capital forecast	65,087
Mains	George St W	106	1921	100	2021	145,491	2	suggested for 10 year capital forecast	145,491
Mains	George St W	78	1896	100	2019		0	suggested for 10 year capital forecast	33,682
Mains Mains	George St W George St W	76 32	1896 1921	100 100	2019 2021	43,550	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	32,540 43,550
Mains	Glastonbury Cres	36	1952	100	2052	10,424	33	435	-
Mains	Glastonbury Cres	47	1952	100	2052	13,749	33	573	-
Mains	Glastonbury Cres	36	1952	100	2052	10,359	33	432	-
Mains	Glastonbury Cres	36	1952	100	2052		33	435	-
Mains Mains	Glastonbury Cres Glastonbury Cres	69 47	1952 1946	100 100	2052 2046		33 27	837 665	-
Mains	Glastonbury Cres	69	2017	100	2117		98	469	-
Mains	Glastonbury Cres	36	2017	100	2117		98	242	-
Mains	Glastonbury Cres	36	2017	100	2117		98	243	-
Mains	Glastonbury Cres	36 47	2017 2017	100 100	2117 2117		98 98	244 321	-
Mains Mains	Glastonbury Cres Glastonbury Cres	47	2017	100	2117		98	321	-
Mains	Glastonbury Cres	20	2001	100	2101	5,792	82	144	-
Mains	Glastonbury Cres	70	1989	100	2089		70	541	-
Mains	Glastonbury Dr	40	1976	100	2076		57	423	-
Mains Mains	Glastonbury Dr Glastonbury Dr	47 60	1976 1976	100 100	2076 2076		57 57	473 609	
Mains	Glastonbury Dr	28	1976	100	2076	-	57	250	
Mains	Glastonbury Dr	36	1976		2076		57	380	
Mains	Glastonbury Dr	70	1976		2076		57	732	-
Mains	Glastonbury Dr	43	1952	100	2052		33	638	-
Mains Mains	Glastonbury Dr Glastonbury Dr	59 77	1952 1952	100 100	2052 2052		33 33	752 1,143	-
Mains	Glastonbury Dr	48	1952	100	2052		33	607	-
Mains	Glastonbury Dr	35	1952	100	2052	10,680	33	445	-
Mains	Glastonbury Dr	90	1952	100	2052		33	1,324	-
Mains	Glastonbury Dr	81	1952	100	2052		33	1,151	-
Mains Mains	Glastonbury Dr Glastonbury Dr	35 48	2017 2017	100 100	2117 2117		98 98	249 340	-
Mains	Glastonbury Dr	48 59		100	2117		98 98	<u>340</u> 421	-
Mains	Glastonbury Dr	17	2001	100	2101		82	125	-
Mains	Glastonbury Dr	73		100	2101		82	556	
Mains	Glastonbury Dr	32	2001	100	2101		-	240	
Mains Mains	Glastonbury Dr Glastonbury Dr	69 79		100 100	2101 2101		82 82	523 695	-
Mains	Glastonbury Dr	53	2001	100	2101	16,155	82 82	402	-
Mains	Glastonbury Dr	45	2001	100	2101	13,564	82	338	
Mains	Glastonbury Dr	10	2001	100	2101	3,099	82	77	-
Mains	Glastonbury Dr	69	2001	100	2101	20,072	82	500	
Mains	Glendon Rd	114	1966	100	2066	33,365	47	1,102	-



					y of Stratf nitary Sev				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Glendon Rd	71	1966	100	2066	20,679	47	683	-
Mains	Glendon Rd	70	1966	100	2066	20,537	47	678	-
Mains	Glendon Rd	66		100	2072	19,158	53	590	-
Mains Mains	Glendon Rd Glendon Rd	104 125	1970 1965	100 100	2070 2065	30,175 44,486	51 46	949 1,488	-
Mains	Glendon Rd	47	1903	100	2003	13,687	53	421	
Mains	Glendon Rd	86	1965	100	2065	25,198	46	843	-
Mains	Glendon Rd	86		100	2065	25,052	46	838	-
Mains	Glendon Rd	68		100	2066	19,791 19,850	47	653	-
Mains Mains	Glendon Rd Glendon Rd	56 104	1965 1966	100 100	2065 2066	30,299	46 47	664 1,000	-
Mains	Glendon Rd	50		100	2072	14,518	53	447	-
Mains	Glendon Rd	52		100	2072	15,160	53	467	-
Mains	Glendon Rd	10		100	2067	3,563	48	116	-
Mains	Gordon St	83		100	2056	25,242 31,121	37	972	-
Mains Mains	Gordon St	91 89	1956 1956	100 100	2056 2056	30,291	37 37	1,198 1,166	-
Mains	Gordon St	80		100	2056	24,460	37	942	-
Mains	Gordon St	81	1956	100	2056	23,610	37	909	-
Mains	Graff Ave	54		100	2067	15,743	48	513	-
Mains	Graff Ave	55		100	2067	16,160 15,640	48	527	-
Mains Mains	Graff Ave Graff Ave	54 62	1967 1967	100 100	2067 2067	15,640 18,008	48 48	510 587	-
Mains	Graff Ave	78		100	2067	22,697	48	740	-
Mains	Graff Ave	67	1971	100	2071	19,652	52	611	-
Mains	Graff Ave	80	1971	100	2071	23,307	52	725	-
Mains	Graff Ave	68		100	2071	19,759 22,750	52	615	-
Mains Mains	Graff Ave Graff Ave	78 80	1971 1967	100 100	2071 2067	23,370	52 48	708 762	-
Mains	Graham Cres	61	1976	100	2076	17,663	57	522	-
Mains	Graham Cres	60	1976	100	2076		57	513	-
Mains	Graham Cres	77	1976	100	2076	22,398	57	662	-
Mains	Graham Cres Graham Cres	81	1976	100	2076	23,632 16,037	57 57	699 474	-
Mains Mains	Graham Cres	55 77	1976 1976	100 100	2076 2076	22,479	57 57	665	-
Mains	Grange St	118		100	2019	35,852	0	suggested for 10 year capital forecast	35,852
Mains	Grange St	121	1913	100	2019	36,760	0	suggested for 10 year capital forecast	36,760
Mains	Grange St	124	1913	100	2019	37,639	0	suggested for 10 year capital forecast	37,639
Mains	Grange St Grange St	80 34	1913 1913	100 100	2019 2019	24,396 10,420	0	suggested for 10 year capital forecast	24,396 10,420
Mains Mains	Grant St	133	1913	100	2019	40,372	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	40,372
Mains	Grant St	76		100	2103	22,015	84	543	-
Mains	Greenberg PI	7	2006	100	2106	1,895	87	46	-
Mains	Greenberg PI	90		100	2106	26,221	87	638	-
Mains Mains	Greenberg Pl Greenberg Pl	56 53		100 100	2110 2110	16,298 15,568	91 91	390 373	-
Mains	Greenwood Dr	62	1976	100	2076	18,708	57	553	-
Mains	Greenwood Dr	79		100	2077	27,201	58	797	-
Mains	Greenwood Dr	60		100	2077	20,639	58	604	-
Mains	Greenwood Dr	61	1976	100	2076	18,639	57	551	-
Mains Mains	Greenwood Dr Greenwood Dr	80 52		100 100	2077 2076	24,189 15,820	58 57	708 468	-
Mains	Greenwood Dr	76		100	2076	26,087	58	764	-
Mains	Greenwood Dr	81	1977	100	2077	27,867	58	816	-
Mains	Greenwood Dr	55		100	2087	16,709	68	452	-
Mains	Greenwood Dr	58		100	2087	17,646	68	477	-
Mains Mains	Greenwood Dr Greenwood Dr	90	1987 1987	100 100	2087 2087	27,298 25,446	68 68	738 688	-
Mains	Greenwood Dr	59		100	2087	17,949	68	485	
Mains	Greenwood Dr	89		100	2087	30,532	68	825	-
Mains	Greenwood Dr	93		100	2087	31,741	68	858	-
Mains	Gregory Cres	90		100	2101	26,198	82	653	-
Mains Mains	Gregory Cres Gregory Cres	90 52	2001 2001	100 100	2101 2101	26,212 15,279	82 82	653 381	-
Mains	Gregory Cres	18		100	2101	5,323	82	133	-
Mains	Gregory Cres	36		100	2101	10,428	82	260	-
Mains	Gregory Cres	22	2001	100	2101	6,402	82	159	-
Mains	Gregory Cres	94		100	2101	27,531 5,017	82	686	-
Mains Mains	Gregory Cres Griffith Rd	116		100 100	2101 2087	33,863	82 68	125 915	-
Mains	Griffith Rd	121	1987	100	2087	35,216	68	952	-
Mains	Griffith Rd	52		100	2087	15,241	68	412	-
Mains	Griffith Rd	116	2010	100	2110		91	811	-
Mains	Griffith Rd	121	2010	100	2110		91	880	-
Mains	Griffith Rd	120		100	2110		91	624	-
Mains Mains	Griffith Rd Griffith Rd	120 114		100 100	2110 2079		91 60	871 954	-
Mains	Griffith Rd	64	1979	100	2079	19,606	60	564	-
Mains Mains	Griffith Rd Griffith Rd	64 115		100 100	2079 2079	19,606 33,482 34,857	60 60	564 963	-



					y of Stratf nitary Sev				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Griffith Rd	33	1979	100	2079	9,728	60	280	-
Mains	Griffith Rd	38	1976	100	2076	11,096	57	328	-
Mains Mains	Griffith Rd Griffith Rd	30 53	1976 1976	100 100	2076 2076	8,826 16,216	57 57	<u>261</u> 479	-
Mains	Griffith Rd	44	1976		2076		57	383	-
Mains	Griffith Rd	71	1976	100	2076	20,748	57	613	-
Mains	Griffith Rd W	82	1991	100	2091	23,860 28,418	72	628	-
Mains Mains	Griffith Rd W Griffith Rd W	98 78	1991 1991	100 100	2091 2091	22,664	72 72	748 597	-
Mains	Griffith Rd W	86	1991	100	2091	25,106	72	661	-
Mains	Griffith Rd W	78	2009	100	2109	22,644	90	544	-
Mains Mains	Guelph St Guelph St	74 82	1980 1980	100 100	2080 2080	21,542 23,962	61 61	614 683	-
Mains	Guelph St	81	1980	100	2080		61	675	-
Mains	Guelph St	123	1980	100	2080	35,820	61	1,022	-
Mains	Guthrie Ave	42	1948	100	2048	12,218 8,754	29	559	-
Mains Mains	Guthrie Ave Guthrie Ave	30 76	1948 1948	100 100	2048 2048	22,064	29 29	401 1,010	-
Mains	Hahn Ct	83	1991	100	2091	24,247	72	638	-
Mains	Haig St	8	1979	100	2079	2,333	60	67	-
Mains	Haig St	51	1979	100	2079	14,821 8,854	60	426	-
Mains Mains	Haig St Haig St	30 60	1950 1950	100 100	2050 2050	8,854 17,574	31 31	386 766	-
Mains	Haig St	92	1950	100	2050	26,671	31	1,163	-
Mains	Harrison St	51	2006	100	2106	14,934	87	364	-
Mains	Harrison St	78	2006	100	2106	22,734	87	554	-
Mains Mains	Harrison St Henry Dr	46 60	2006 1988	100 100	2106 2088	13,285 17,559	87 69	323 471	-
Mains	Henry Dr	64	1988	100	2088	18,592	69	499	-
Mains	Hesson St	61	1948	100	2048	17,793	29	815	-
Mains	Hesson St	61	1948		2048		29	815	-
Mains Mains	Hibernia St Hibernia St	112 14	1975 1972	100 100	2075 2072	33,916 4,039	56 53	1,012 124	-
Mains	Hibernia St	100	2016	1	2116	29,288	97	686	
Mains	Hibernia St	102	2016		2116	29,798	97	698	-
Mains	Hibernia St	12	1930	100	2030	4,076	11	416	-
Mains Mains	Hibernia St Hibernia St	86 78	1966 2000	100 100	2066 2100	30,591 22,619	47 81	1,010 566	-
Mains	Hibernia St	67	2000	100	2100	19,446	81	487	-
Mains	Hibernia St	61	2000	100	2100	17,806	81	446	-
Mains	Hibernia St	85	1988	100	2088	24,797	69	666	-
Mains Mains	Hibernia St Hibernia St	90	2000 2000	100 100	2100 2100	26,245 25,560	81 81	657 640	<u>-</u>
Mains	Hibernia St	78	2000	100	2100	22,819	81	571	-
Mains	Hibernia St	83	1962	100	2062	24,051	43	839	-
Mains	Hibernia St	17	1962	100	2062	5,081	43	177	-
Mains Mains	Hibernia St Hibernia St	79 79	1966 1966	100 100	2066 2066		47 47	759 757	-
Mains	Hibernia St	76	1966		2066		47	734	-
Mains	Hibernia St	83	1962	100	2062	24,063	43	840	-
Mains	Hibernia St	61	1962	100	2062	17,694 33,199	43	617	- 00.400
Mains Mains	Hibernia St Hibernia St	109 105	1923 1923	100 100	2023 2023	31,807	4	suggested for 10 year capital forecast suggested for 10 year capital forecast	33,199 31,807
Mains	Hickory Lane	64	1968		2068	18,565	49	598	-
Mains	Hickory Lane	98	1968		2068		49	921	-
Mains Mains	High St	69 30	1915		2019	20,895 8,717	0	suggested for 10 year capital forecast	20,895
Mains Mains	Hillcrest Dr Hillcrest Dr	33	1951 1951	100 100	2051 2051	9,737	32 32	371 415	-
Mains	Hillcrest Dr	76	1951	100	2051	22,006	32	938	-
Mains	Hillcrest Dr	77	1951	100	2051	22,471	32	958	-
Mains Mains	Hillcrest Dr	29	1958		2058		39 97	311	-
Mains Mains	Home St	118 74	2016 2016		2116 2116		97 97	844 524	-
Mains	Home St	41	1923	100	2023	12,355	4	suggested for 10 year capital forecast	12,355
Mains	Home St	8	1923	100	2023	2,341	4	suggested for 10 year capital forecast	2,341
Mains Mains	Home St	141 51	1918 1918		2019 2019		0	suggested for 10 year capital forecast	43,016 15,621
Mains Mains	Home St	37	1918		2019	11,320	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	15,621 11,320
Mains	Home St	68	1918		2019	20,588	0	suggested for 10 year capital forecast	20,588
Mains	Home St	24			2019			suggested for 10 year capital forecast	7,398
Mains Mains	Home St	5 8			2019			suggested for 10 year capital forecast	1,533
Mains Mains	Home St	42	2009 2009		2109 2109		90	57 431	-
Mains	Home St	28			2109		90	199	-
Mains	Home St	66	1965		2065			644	-
			4005	100	2065	22,115	46	740	_
Mains	Home St	76							
Mains	Home St	72	1965	100	2065	21,062	46	705	-
			1965	100 100		21,062 21,882			



Mains John St S Mains John St S Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Mains Mappele Crcl Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Lightboure Ave M			C					
Mains John St S Mains John St S Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Kappele Crcl Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Killoran Cres Mains Laurier St Mains Laurier St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Lightbo	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Kappele Crcl Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Killoran	98	1956	100	2056	28,444	37	1,095	-
Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Killoran Cres Mains Lightboure Ave Mains	79	1956	100	2056		37	889	-
Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Kappele Crcl Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Killoran Cre	103			2019		0	suggested for 10 year capital forecast	31,476
Mains Jones St Mains Jones St Mains Jones St Mains Jones St Mains Kappele Crcl Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Lightboure Ave Main	119			2019		0	suggested for 10 year capital forecast	36,210
Mains Jones St Mains Appele Crcl Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Killoran	117	1914 1914	100 100	2019		0	suggested for 10 year capital forecast	35,610
Mains Jones St Mains Kappele Crcl Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Killoran Cres Mains Lightboure Ave Mains Laurier St Mains King St Mains King St Mains Laurier St Mains Lightboure Ave Mains Lightb	9			2019 2103		84	suggested for 10 year capital forecast 71	3,216
Mains Kappele Crcl Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Killoran Cres Mains Lightboure Ave Mains Laurier St Mains Laurier St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Ma	11	2009		2109		90	74	
Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Killoran Cres Mains Killoran Cre	49			2068		49	463	-
Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Killoran Cres Mains King St Mains Kin	16	1968	100	2068	4,761	49	153	-
Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kay St Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains L	60	1968	100	2068		49	567	-
Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kay St Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains L	71	1973		2073		54	632	-
Mains Kathryn Cres Mains Kathryn Cres Mains Kathryn Cres Mains Kay St Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Lightbourne Ave Mains Ligh	12			2068		49	117	-
Mains Kathryn Cres Mains Kathryn Cres Mains Kay St Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Lightbo	56 11			2068 2068		49 49	524 103	-
Mains Kathryn Cres Mains Kay St Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains	52			2068		49	487	
Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Killoran Cres Mains Lightbourne Ave Mains Lightbourne Av	71	1973		2073		54	627	-
Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Main	95		100	2091	27,646	72	728	-
Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Lightbourn	85	1967	100	2067	24,724	48	806	-
Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Ligh	62		100	2067	18,056	48	589	-
Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Main	74		100	2067	21,456	48	700	-
Mains Kemp Cres Mains Kemp Cres Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Main	79		100	2067	22,999	48	750	-
Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Ma	37		100	2067	10,798 25,884	48 48	352	-
Mains Kemp Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Lightb	89 107	1967 1967	100 100	2067 2067	31,323	48	844 1,021	-
Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Main	85		100	2067	24,878	48	811	
Mains Kenner Cres Mains Kenner Cres Mains Kenner Cres Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Lightbourne	91	1977	100	2077	27,713	58	812	-
Mains Kent Lane Mains Kent Lane Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Laurier St Mains Lightbourne Ave	68		100	2077	20,551	58	602	•
Mains Kent Lane Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Laurier St Mains Lightbourne Ave	93	1977	100	2077	28,306	58	829	-
Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave	86	1	100	2077	26,234	58	768	-
Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Light	85			2019		0	suggested for 10 year capital forecast	25,815
Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave	110		1	2019		0	suggested for 10 year capital forecast	33,462
Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave	53			2093	15,570 16,360	74	405	-
Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave	56 59			2093 2093	17,149	74 74	425 446	-
Mains Killoran Cres Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave	16			2093	4,641	74	121	_
Mains Killoran Cres Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave	75		100	2093	21,929	74	570	-
Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	89		100	2093	26,082	74	678	-
Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI	18	1993	100	2093	5,349	74	139	-
Mains King St Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	40		100	2078	11,724	59	340	-
Mains King St Mains King St Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	98		100	2080	28,641	61	817	-
Mains King St Mains King St Mains King St Mains Laurier St Mains Laurier St Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI	98		100	2080	28,479 20,118	61	812	-
Mains King St  Mains Laurier St  Mains Laurier St  Mains Lightbourne Ave  Mains Linden Ct  Mains Linden Ct  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Little Thames PI  Mains Little Thames PI  Mains Little Thames PI	69 125			2030 2098		11 79	2,056 920	-
Mains King St  Mains Laurier St  Mains Lightbourne Ave  Mains Linden Ct  Mains Linden Ct  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Little Thames PI  Mains Little Thames PI  Mains Little Thames PI	93			2098		79	682	
Mains Laurier St  Mains Lightbourne Ave  Mains Linden Ct  Mains Linden Ct  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Little Thames PI  Mains Little Thames PI  Mains Little Thames PI	127			2019		0	suggested for 10 year capital forecast	38,621
Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	97			2019		0	suggested for 10 year capital forecast	29,410
Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	93	1914	100	2019		0	suggested for 10 year capital forecast	28,367
Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	41	1978		2078		59	347	-
Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	83			2078		59	704	-
Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	54			2078		59	459	-
Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	84			2078 2078		59 59	709	-
Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	36 18			2078		83	303 127	-
Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	65			2100		81	472	_
Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	17		100	2087	4,970	68	134	-
Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	96	1		2102		83	691	-
Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	79			2102		83	569	-
Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	16			2102		83	112	-
Mains Lightbourne Ave Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	60			2102		83	432	-
Mains Lightbourne Ave Mains Lightbourne Ave Mains Linden Ct Mains Linden Ct Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI Little Thames PI	22 37			2102 2102		83 83		-
Mains Lightbourne Ave  Mains Linden Ct  Mains Linden Ct  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Little Thames PI  Mains Little Thames PI  Mains Little Thames PI	2		1	2102		83 74		-
Mains Linden Ct  Mains Linden Ct  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Little Thames PI  Mains Little Thames PI  Mains Little Thames PI	20			2100		81	147	-
Mains Linden Ct  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Linton Ave  Mains Little Thames PI  Mains Little Thames PI  Mains Little Thames PI  Mains Little Thames PI	70			2076		57	606	
Mains Linton Ave Mains Linton Ave Mains Linton Ave Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI Little Thames PI	40			2076	11,680	57	345	-
Mains Linton Ave  Mains Linton Ave  Mains Little Thames PI  Mains Little Thames PI  Mains Little Thames PI  Mains Little Thames PI	66			2108		89	947	-
Mains Linton Ave  Mains Little Thames PI  Mains Little Thames PI  Mains Little Thames PI	66			2108		89	945	-
Mains Little Thames PI Mains Little Thames PI Mains Little Thames PI	103					89	1,480	
Mains Little Thames PI Mains Little Thames PI	62			2108	36,946 10,325	89	892	-
Mains Little Thames PI	35 46		100 100	2111 2111	10,325	92 92	246 319	-
	36		100	2111	10,483	92	250	-
Mains Little Thames PI	49			2111	14,140	92	337	-
Mains Little Thames PI	90			2111	26,190	92	625	-
Mains Little Thames PI	28		100	2111	8,061	92	192	-
Mains Lloyd Ct	73		100	2091	21,410	72	564	-
Mains Long Dr	67			2098		79	494	-
Mains Long Dr Mains Long Dr	27 82			2098 2098		79 79	197 606	-



					y of Stratf				
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Long Dr	17	1998	100	2098			127	-
Mains	Long Dr	26		100	2098	7,557 7,954	79	191	-
Mains Mains	Long Dr Long Dr	27 9	1998 1998	100 100	2098 2098	2,633		201	-
Mains	Long Dr	43		100	2098	12,478		316	-
Mains	Long Dr	13		100	2098	3,870		98	-
Mains	Long Dr	39		100	2098	11,440		289	-
Mains	Long Dr	14		100	2098	4,205 15,338		106	-
Mains Mains	Long Dr Long Dr	53 17	1998 1998	100 100	2098 2098		-	388 127	<u>-</u>
Mains	Long Dr	62		100	2098			454	-
Mains	Long Dr	35	1998	100	2098		79	259	-
Mains	Long Dr	58	1998	100	2098	16,827	79	426	-
Mains Mains	Lorne Ave E Lorne Ave E	15 25		100 100	2091 2075	9,245 14,237	72 56	243 425	<u>-</u>
Mains	Lorne Ave E	52	1975	100	2075	15,282	-	456	
Mains	Lorne Ave E	4		100	2075	1,351	56	40	-
Mains	Lorne Ave E	112	2017	100	2117	49,765		1,162	-
Mains	Lorne Ave E	104		100	2117	46,018		1,075	-
Mains Mains	Lorne Ave E Lorne Ave E	97 98	2017 1964	100 100	2117 2064	42,971 50,945	98 45	1,004 1,728	<u> </u>
Mains	Lorne Ave E	54	1964	100	2064	28,188		956	<u>-</u>
Mains	Lorne Ave E	101	1964	100	2064	52,334	45	1,775	-
Mains	Lorne Ave E	116		100	2064	60,339		2,046	-
Mains	Lorne Ave E	97		100	2064	42,971 46,018	45	1,457	-
Mains Mains	Lorne Ave E Lorne Ave E	104 115		100 100	2064 2064	50,871	45 45	1,560 1,725	-
Mains	Lorne Ave E	120		100	2064	53,170	t	1,803	-
Mains	Lorne Ave E	63		100	2064	32,854		1,114	-
Mains	Lorne Ave E	63		100	2064	32,890		1,115	-
Mains	Lorne Ave E	58		100	2064		1	1,026	-
Mains Mains	Lorne Ave E Lorne Ave E	112 41	1964 1964	100 100	2064 2064	21,048		1,688 714	<u> </u>
Mains	Lorne Ave E	43		100	2064	22,427	1	760	-
Mains	Lorne Ave E	97	1964	100	2064	50,592		1,716	-
Mains	Lorne Ave E	46		100	2064	23,864		809	-
Mains Mains	Lorne Ave E Lorne Ave E	51 96	1964 1964	100 100	2064 2064	26,396 49,860		895 1,691	-
Mains	Lorne Ave E	102		100	2064	45,124		1,530	<u> </u>
Mains	Lorne Ave E	10		100	2087	2,944	1	80	-
Mains	Lorne Ave E	93		100	2087	27,084		732	-
Mains	Lorne Ave E	14		100	2097	3,982 20,104		101	-
Mains Mains	Lorne Ave E Lorne Ave E	69 22		100 100	2097 2087	6,531	78 68	511 177	<u>-</u>
Mains	Lorne Ave E	39		100	2096	11,380		291	-
Mains	Lorne Ave E	30		100	2096	10,146		259	-
Mains	Lorne Ave E	98		100	2091	33,653		886	-
Mains	Lorne Ave E Lorne Ave E	46 30		100 100	2091 2091	15,898 8,364		419 220	<u>-</u>
Mains Mains	Lorne Ave E	102		100	2091	29,784		761	<u> </u>
Mains	Lorne Ave E	93		100	2096	27,221	77	696	-
Mains	Lorne Ave E	86	1996	100	2096	25,137		643	-
Mains	Lorne Ave E	91	1996	100	2096	26,464	- ' '	677	-
Mains Mains	Lorne Ave E  Lorne Ave E	90	1996 1991	100 100	2096 2091	26,114 20,655		668 544	-
Mains	Lorne Ave W	83		100	2055	43,189		1,694	-
Mains	Lorne Ave W	85		100	2055	43,964		1,725	-
Mains	Lorne Ave W	83		100	2055	43,137		1,692	-
Mains	Lorne Ave W	84		100	2097	43,827 48,282		1,114	-
Mains Mains	Lorne Ave W Lorne Ave W	93 44		100 100	2097 2108	26,068		1,228 629	-
Mains	Lorne Ave W	5		100	2108	2,602		63	-
Mains	Lorne Ave W	33	1987	100	2087	31,385	68	848	-
Mains	Lorne Ave W	141	1987	100	2087	136,121		3,680	-
Mains Mains	Lorne Ave W	110 86		100 100	2087 2097	106,387 41,642		2,876	<u> </u>
Mains Mains	Lorne Ave W Lorne Ave W	4		100	2108			1,059 28	-
Mains	Louise St	93		100	2076			798	
Mains	Louise St	42			2076			359	-
Mains	Louise St	55		100	2117		1	376	-
Mains Mains	Louise St Louise St	76 92		100 100	2117 2117	22,207 26,780		519 625	-
Mains Mains	Louise St Louise St	92		100	2023			suggested for 10 year capital forecast	26,780
Mains	Louise St	55		100	2023			suggested for 10 year capital forecast	16,114
	Louise St	76	1923	100	2023			suggested for 10 year capital forecast	22,207
Mains		1	1908	100	2019	21,795	0	suggested for 10 year capital forecast	21,795
Mains	Louise St	72				00 000	I		
Mains Mains	Louise St	86	1914	100	2019		<u> </u>	suggested for 10 year capital forecast	26,086 30,371
Mains			1914 1914			30,371	0	suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast	26,086 30,371 23,027



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Louise St	15		100	2023	4,276	1	suggested for 10 year capital forecast	4,276
Mains	Louise St	19		100	2019	5,647	0	suggested for 10 year capital forecast	5,647
Mains	Louise St	13		100	2109			94	-
Mains Mains	Louise St Magwood Ct	20 63		100 100	2109 2079	5,799 18,279		139 526	-
Mains	Magwood Ct	64	1979	100	2079	18,694		538	
Mains	Maitland Ave	23		100	2106			163	_
Mains	Makins St	85		100	2085	24,666		676	-
Mains	Makins St	86	1985	100	2085	24,942	66	684	-
Mains	Makins St	86		100	2085	25,061	66	687	-
Mains	Manning Ave	106		100	2019			suggested for 10 year capital forecast	32,185
Mains	Maple Ave	83	1975	100	2075	24,078 13,983		719	-
Mains Mains	Maple Ave Maple Ave	93	1975 1975	100 100	2075 2075	27,184		417 811	-
Mains	Maple Ave	92	1975	100	2075	26,854		801	<u> </u>
Mains	Maple Ave	57	1975	100	2075	16,632		496	_
Mains	Maple Ave	88	1975	100	2075	25,733		768	-
Mains	Maple Ave	90	1975	100	2075	26,324	56	786	-
Mains	Maple Ave	75		100	2075	21,886		653	-
Mains	Maple Ave	100		100	2092	105,048		2,749	-
Mains	Maple Ave	30		100	2088	8,746 6,166		235	-
Mains Mains	Maple Ave Maple Ave	22 39		100 100	2106 2065	11,477	87 46	150 384	-
Mains Mains	Maple Ave	107	1965	100	2065	-		1,026	<u> </u>
Mains	Maple Ave	95		100	2066	-		917	_
Mains	Maple Ave	60		100	2066		47	574	-
Mains	Martin St	73	1956	100	2056	21,290	37	820	-
Mains	Martin St	73	2017	100	2117	21,290		497	-
Mains	Martin St	5		100	2110	1,488		36	-
Mains	Martin St	5		100	2117	1,488		35	-
Mains	Matilda St	62 16		100	2068 2068			687 171	-
Mains Mains	Matilda St Matilda St	31	1968	100 100	2068			342	
Mains	Matilda St	98		100	2068		49	1,080	
Mains	Matilda St	100	1968	100	2068		49	1,098	-
Mains	Matilda St	99	1968	100	2068	34,007	49	1,095	-
Mains	Matilda St	49	2000	100	2100	14,288		358	-
Mains	Matilda St	90		100	2100	26,308	<u> </u>	659	-
Mains	Matilda St	8		100	2091	2,388		63	-
Mains	Matilda St	66		100	2091	22,567 23,377	72	594	-
Mains Mains	Matilda St Matilda St	68 98		100 100	2091 2091	34,886	72 72	615 918	-
Mains	Matilda St	93		100	2091	33,051	72	870	<u> </u>
Mains	Matilda St	94		100	2091	33,414		880	-
Mains	Matilda St	90		100	2091	30,837		812	-
Mains	Mayberry PI	92	1968	100	2068	26,766		862	-
Mains	Mccann Dr	80		100	2087	23,350		631	-
Mains	Mccarthy Rd E	82		100	2067	25,081 22,978	48	818	-
Mains Mains	Mccarthy Rd E  Mccarthy Rd E	76 76		100 100	2067 2067	23,105	_	749 753	<u>-</u>
Mains	Mccarthy Rd E	76	1967	100	2067	23,423		764	<u> </u>
Mains	Mccarthy Rd E	76		100	2067	23,206		757	
Mains	Mccarthy Rd E	17	2006	100	2106	4,844		118	-
Mains	Mccarthy Rd E	20	2010	100	2110	5,782	91	138	-
Mains	Mccarthy Rd W	12		100	2076	3,522		104	-
Mains	Mccarthy Rd W	89		100	2107	25,987		630	-
Mains Mains	Mccarthy Rd W	28		100	2087	8,625 878		233	-
Mains Mains	Mccarthy Rd W Mccarthy Rd W	91	2007 2007	100 100	2107 2107	26,589	00	21 645	-
Mains	Mccarthy Rd W	8		100	2107	2,318		56	
Mains	Mccarthy Rd W	32		100	2091	9,667		255	-
Mains	Mccarthy Rd W	81	1991	100	2091	23,695		624	-
Mains	Mcculloch St	102		100	2055	60,551	36	2,376	-
Mains	Mcculloch St	100		100	2055	59,724		2,343	-
Mains	Mcculloch St	200		100	2055	118,987	l	4,668	-
Mains	Mcculloch St	100		100	2022	29,210 24,749	-	suggested for 10 year capital forecast	29,210
Mains Mains	Mcdonald St Mcdonald St	81 81	1956 1956	100 100	2056 2056			953 954	<u> </u>
Mains	Mcdonald St	81		100	2056			920	-
	Mcfarlane St	34		100	2050			398	-
Mains		61	1968	100	2068			573	-
	Mcfarlane St			100	2068	20,383	49	656	-
Mains	Mcfarlane St Mcfarlane St	70				20.445	49	050	
Mains Mains		70	1968	100	2068			658	-
Mains Mains Mains Mains Mains	Mcfarlane St Mcfarlane St Mcfarlane St	70 61	1968 1968	100 100	2068	17,661	49	569	-
Mains Mains Mains Mains Mains Mains Mains	Mcfarlane St Mcfarlane St Mcfarlane St Mcgregor St	70 61 70	1968 1968 1990	100 100 100	2068 2090	17,661 20,463	49 71	569 542	-
Mains Mains Mains Mains Mains Mains Mains Mains Mains	Mcfarlane St Mcfarlane St Mcfarlane St Mcgregor St Mcgregor St	70 61 70 73	1968 1968 1990 1990	100 100 100 100	2068 2090 2090	17,661 20,463 21,177	49 71 71	569 542 561	
Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains Mains	Mcfarlane St Mcfarlane St Mcfarlane St Mcgregor St Mcgregor St Mcgregor St	70 61 70 73 57	1968 1968 1990 1990	100 100 100 100 100	2068 2090 2090 2090	17,661 20,463 21,177 16,671	49 71 71 71	569 542 561 442	- - -
Mains Mains Mains Mains Mains Mains Mains Mains Mains	Mcfarlane St Mcfarlane St Mcfarlane St Mcgregor St Mcgregor St	70 61 70 73	1968 1968 1990 1990	100 100 100 100	2068 2090 2090	17,661 20,463 21,177	49 71 71 71 71 68	569 542 561	



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Mckenzie St	115	1912	100	2019	34,982	0	suggested for 10 year capital forecast	34,982
Mains	Mckenzie St	117	1912	100	2019	35,432	0	suggested for 10 year capital forecast	35,432
Mains	Mclagan Dr	13	2004	100	2104	31,126	85	765	-
Mains	Mclagan Dr	50	2004	100	2104	68,821	85	1,690	-
Mains	Mclagan Dr	6	2004	100	2104	2,184	85	54	-
Mains	Mclagan Dr	48	2004	100	2104	115,867	85	2,846	-
Mains	Mclagan Dr	93	2004	100	2104	224,286	85	5,509	-
Mains	Mclagan Dr	100	2004	100	2104	241,242	85	5,926	-
Mains	Mclagan Dr	3	2004	100	2104	3,918	85	96	-
Mains	Mclagan Dr	16	2004	100	2104	39,578	85	972	-
Mains	Mclagan Dr	38	2004	100	2104	11,014	85	271	-
Mains	Mclagan Dr	24	2004	100	2104	6,970	85	171	-
Mains	Mclagan Dr	22	2004	100	2104	6,678	85	164	-
Mains	Mcmanus Rd	23	2014	100	2114	6,770	95	160	-
Mains	Mcnab St	100	2018	100	2118	30,443	99	709	-
Mains	Mcnab St	121	2018	100	2118	36,814 35,538	99	857	-
Mains	Monab St	117	2018	100	2118	25,685	99	827	-
Mains	Monab St	84	2018	100	2118	30,443	99	598	- 20 440
Mains Mains	Monab St	100	1916 1916	100	2019	36,814	0	suggested for 10 year capital forecast	30,443
Mains Mains	Mcnab St Mcnab St	121 19	1916 1913	100 100	2019 2019	6,682	0	suggested for 10 year capital forecast	36,814 6,682
Mains	Mcnab St	117	1913 1914	100	2019	35,538	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	35,538
Mains	Mcnab St	84	1914	100	2019	25,685	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	25,685
Mains	Mcnab St	71	2003	100	2103	20,765	84	suggested for 10 year capital forecast	25,065
Mains	Mcnab St	69	2003	100	2103	20,703	84	499	-
Mains	Mcqueen Ct	53	1992	100	2092	15,480	73	405	-
Mains	Mcqueen Ct	34	1992	100	2092	9,874	73	258	-
Mains	Mcqueen Ct	62	1992	100	2092	18,166	73	475	_
Mains	Meighen Mews	44	1976	100	2076	12,715	57	376	-
Mains	Meighen Mews	21	1976	100	2076	6,122	57	181	-
Mains	Meighen Mews	77	1976		2076	22,403	57	662	-
Mains	Mercer St	73	1924	100	2024	21,329	5	suggested for 10 year capital forecast	21,329
Mains	Mercer St	22	1907	100	2019	6,688	0	suggested for 10 year capital forecast	6,688
Mains	Mercer St	59	1907	100	2019	17,836	0	suggested for 10 year capital forecast	17,836
Mains	Mercer St	11	1907	100	2019	3,351	0	suggested for 10 year capital forecast	3,351
Mains	Mercer St	8	2003	100	2103	2,403	84	59	-
Mains	Mercer St	11	2009	100	2109	3,094	90	74	-
Mains	Mercer St	101	2013	100	2113	29,402	94	696	-
Mains	Milton St	82	1920	100	2020	25,046	1	suggested for 10 year capital forecast	25,046
Mains	Milton St	106	2000	100	2100	30,772	81	770	-
Mains	Milton St	102	2000	100	2100	29,708	81	744	-
Mains	Milton St	115	1920	100	2020	33,603	1	suggested for 10 year capital forecast	33,603
Mains	Milton St	114	1920	100	2020	34,797	1	suggested for 10 year capital forecast	34,797
Mains	Moderwell St	9	1955	100	2055	5,539	36	217	-
Mains	Moderwell St	148	1955	100	2055	87,937	36	3,450	-
Mains	Moderwell St	45	1986	100	2086		67	641	-
Mains	Monteith Ave	13	1958	100	2058		39	162	-
Mains	Monteith Ave	101	1958	100	2058	34,682 38,702	39	1,289	-
Mains	Monteith Ave	113	1958	100	2058	36,283	39	1,439	-
Mains	Monteith Ave	106	1958	100	2058	37,433	39 39	1,349	-
Mains	Monteith Ave	109	1958	100	2058 2058	22,590	39	1,391	-
Mains	Monteith Ave	66	1958	100		22,293	39	840	-
Mains Mains	Monteith Ave	65 43	1958 2002	100 100	2058 2102	12,421	83	829 308	-
Mains Mains	Monteith Ave Monteith Ave	90	2002	100	2102	26,279	83	652	_
Mains	Monteith Ave	6	1986		2086		67	46	-
Mains	Moore St	75	2000	100	2100	21,984	81	550	-
Mains	Moore St	80	2000	100	2100	23,442	81	587	-
Mains	Morgan St	85	1991	100	2091	24,905	72	656	-
Mains	Morgan St	90	1991	100	2091	26,303	72	692	-
Mains	Morgan St	50	1991	100	2091	15,265	72	402	-
Mains	Morgan St	36	1991	100	2091	10,883	72	287	-
Mains	Morgan St	53	1991	100	2091	16,214	72	427	-
Mains	Morgan St	54	1991	100	2091	18,467	72	486	-
Mains	Morison St	64	2018	100	2118	18,577	99	432	-
Mains	Morison St	64	1955	100	2055	18,577	36	729	-
Mains	Morison St	28	1958	100	2058	8,048	39	299	-
Mains	Morison St	89	1958	100	2058	25,857	39	961	-
Mains	Mornington St	77	1976	100	2076		57	696	-
Mains	Mornington St	75	1976	100	2076		57	675	-
Mains	Mornington St	45	1972	100	2072	13,091	53	403	-
Mains	Mornington St	17	1972	100	2072	5,044	53	155	-
Mains	Mornington St	39	1976		2076		57	319	-
Mains	Mornington St	71	1972	100	2072	20,587	53	634	-
Mains	Mornington St	58	1976		2076		57	519	-
Mains	Mornington St	7	1976		2076		57	64	-
Mains	Mornington St	9	1969	100	2069	2,599	50	83	
Mains	Mornington St	39	1977	100	2077	10,783	58	316	
Mains	Mornington St	19	1969	100	2069		50	178	
Mains	Mornington St	65	1972	100	2072	18,958	53	583	-



Mains I	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year
Mains I									Forecast
Mains I	Mornington St	76	1972	100	2072	22,017	53	678	-
Mains I	Mornington St	85	1972	100	2072	24,665	1	759	_
	Mornington St	44	1972	100	2072	12,147	53	374	
uvidino	Mornington St	9	1952	100	2052	3,103		129	
	Mornington St	93	1967	100	2067	31,877	48	1,039	
h	Mornington St	28	1967	100	2067	9,413	+	307	_
						24,466			
	Mornington St	55	1964	100	2064	9,918		830	-
	Mornington St	22	1964	100	2064		1	336	-
	Mornington St	75	1964	100	2064	33,454		1,134	-
	Mornington St	63	1964	100	2064	27,875		945	-
	Mornington St	91	1967	100	2067	31,015		1,011	-
	Mornington St	89	1967	100	2067	30,413		992	-
	Mornington St	93	1967	100	2067	31,924	48	1,041	-
	Mornington St	13	2005	100	2105	4,558		111	-
	Mornington St	55	2014	100	2114	19,396		458	-
Mains I	Mornington St	22	2017	100	2117	7,842	98	183	-
Mains I	Mornington St	98	2017	100	2117	34,760	98	812	-
Mains I	Mornington St	98	2017	100	2117	28,562	98	667	-
Mains I	Mornington St	95	2017	100	2117	33,568	98	784	-
	Mornington St	94	2017	100	2117	27,524	98	643	·
	Mornington St	64	1970	100	2070	18,537	51	583	-
	Mornington St	76	1970	100	2070	22,057	51	694	-
	Mornington St	61	1970	100	2070	17,858		562	-
	Mornington St	72	1970	100	2070	20,856		656	_
	Mornington St	39	1970	100	2070	11,412	<u> </u>	359	-
	Mowat St	110	1970	100	2070	33,433		suggested for 10 year capital forecast	33,433
			1920			41,306		, ,	·
	Mowat St	136		100	2020	29,477	· ·	suggested for 10 year capital forecast	41,306
	Mowat St	97	1920	100	2020	2,736	1	suggested for 10 year capital forecast	29,477
	Mowat St	9	1961	100	2061		·-	97	
	Mowat St	78	1920	100	2020	23,638		suggested for 10 year capital forecast	23,638
T	Mowat St	14	1992	100	2092	4,110		108	-
	Mowat St	8	1992	100	2092	2,418		63	-
	Mowat St	17	2009	100	2109	4,822		116	-
Mains I	Mowat St	17	2009	100	2109	5,047	90	121	-
Mains I	Mowat St	81	1965	100	2065	23,732		794	-
Mains I	Mowat St	81	1965	100	2065	23,573		789	-
Mains I	Mowat St	63	1965	100	2065	18,399		616	-
Mains I	Mowat St	17	1965	100	2065	4,929		165	-
Mains I	Murray Hill Rd	73	1971	100	2071	21,265		662	
Mains I	Murray Hill Rd	78	1971	100	2071	22,723		707	-
Mains I	Murray Hill Rd	59	2000	100	2100	17,053	81	427	-
Mains I	Neal Ave	84	1979	100	2079	24,400	60	702	
Mains I	Neal Ave	80	1979	100	2079	23,190	60	667	-
Mains I	Neal Ave	63	1979	100	2079	18,237	60	525	_
Mains I	Neal Ave	94	1979	100	2079	27,329	60	786	_
Mains I	Neal Ave	102	1965	100	2065	29,682	46	993	-
Mains I	Neal Ave	72	1965	100	2065	20,906	46	699	-
Mains I	Neal Ave	91	1965	100	2065	26,564	46	889	-
Mains I	Nelson St	72	1992	100	2092	75,878	73	1,985	
Mains I	Nelson St	108	1916	100	2019	32,970	0	suggested for 10 year capital forecast	32,970
Mains I	Nelson St	98	1915	100	2019	29,804	0	suggested for 10 year capital forecast	29,804
	Nelson St	101	1915	100	2019	30,617	0	suggested for 10 year capital forecast	30,617
	Nelson St	94	1915	100	2019	28,699		suggested for 10 year capital forecast	28,699
	Nelson St	93	1915	100	2019	28,347	0	suggested for 10 year capital forecast	28,347
	Nelson St	45	1915	100	2019	13,741	0	suggested for 10 year capital forecast	13,741
	Nelson St	34	1992	100	2092	9,793		256	-
	Nelson St	67	1992	100	2092	19,545		511	
	Nelson St	68	1992	100	2092	19,804		518	
	Nelson St	36	2007	100	2107	10,525		255	
			2007			59,270			
	Nelson St	62		100	2107	16,978		1,437	-
<u> </u>	Nelson St	58	1992	100	2092	3,355		444	-
	Nelson St	11	2007	100	2107	1,511		81	-
	Nelson St	5	2007	100	2107		88	37	-
	Nelson St	5	2007	100	2107	1,523		37	-
	Nelson St	19	2007	100	2107	5,619		136	-
	Nelson St	39	2007	100	2107	37,179		901	-
	Nelson St	64	2007	100	2107	18,718		454	-
	Nelson St	57	1992	100	2092	16,755		438	-
	Nelson St	135	1923	100	2023	40,911	4	suggested for 10 year capital forecast	40,911
	Nelson St	109	1922	100	2022	33,051		suggested for 10 year capital forecast	33,051
	Nelson St	106	1922	100	2022	32,112		suggested for 10 year capital forecast	32,112
Mains I	Nethercott Dr	41	1976	100	2076	14,082	57	416	-
Mains I	Nethercott Dr	63	1976	100	2076	21,401	57	633	•
Mains I	Nethercott Dr	46	1976	100	2076	15,730	57	465	-
Mains I	Nethercott Dr	50	1976	100	2076	17,050	57	504	-
	Nethercott Dr	38	1976	100	2076	13,073		386	1
Mains I			1976			22,826			-
	Nethercott Dr	67	1970	100	2076	22,020	57	675	
Mains I	Nethercott Dr	46	1976	100	2076	15,783		467	-
Mains I							57		



				Sa	nitary Sev	/Ars			
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Nightingale PI	73	1991	100	2091	21,398	72	563	-
Mains	Nile St	31	1948	100	2048	8,897	29	407	-
Mains	Nile St	14		100	2048	4,204	29	192	-
Mains Mains	Nile St Nile St	67 10	1958 1913	100 100	2058 2019	19,616 2,970	39 0	729 suggested for 10 year capital forecast	2,970
Mains	Nile St	86		100	2019	24,922	3	suggested for 10 year capital forecast	24,922
Mains	Nile St	82		100	2021	23,981	2	suggested for 10 year capital forecast	23,981
Mains	Nile St	86		100	2019	29,279	0	suggested for 10 year capital forecast	29,279
Mains	Nile St	9		100	2022	2,678 25,760	3	suggested for 10 year capital forecast	2,678
Mains Mains	Nile St	88 13		100 100	2096 2100	3,809	77 81	659 95	-
Mains	Nile St	78		100	2096	22,766	77	582	-
Mains	Nile St	82		100	2096	23,964	77	613	-
Mains	Nile St	64		100	2086	18,684	67	509	-
Mains	Nile St	104		100	2086	30,199	67	822	-
Mains Mains	Nile St	13 15		100 100	2113 2048	3,847 4,433	94 29	91 203	-
Mains	Nile St	81	1948	100	2048	23,506	29	1,076	-
Mains	Nile St	12		100	2080	3,496	61	100	-
Mains	Norfolk St	17	1914	100	2019		0	suggested for 10 year capital forecast	5,680
Mains	Norfolk St	96		100	2019	32,822	0	suggested for 10 year capital forecast	32,822
Mains	Norfolk St	51	1914	100	2019	17,492 16,227	0	suggested for 10 year capital forecast	17,492
Mains Mains	Norfolk St Norfolk St	47 56	1914 1914	100 100	2019 2019	16,227 18,990	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	16,227 18,990
Mains	Norfolk St	188		100	2019	64,190	0	suggested for 10 year capital forecast	64,190
Mains	Norfolk St	171	1914	100	2019	58,593	0	suggested for 10 year capital forecast	58,593
Mains	Norfolk St	8	1993	100	2093	2,310	74	60	-
Mains	Norfolk St	3		100	2093	853	74	22	-
Mains	Norfolk St	3		100	2102	1,314	83	33	-
Mains	Norfolk St	100	2002 2002	100 100	2102 2102	8,193 48,343	83 83	203 1,199	-
Mains Mains	Norfolk St Norfolk St	98		100	2102	47,315	83	1,173	-
Mains	Norman St	42		100	2024	11,781	5	suggested for 10 year capital forecast	11,781
Mains	Norman St	103		100	2054	29,888	35	1,196	-
Mains	Norman St	103		100	2019	31,456	0	suggested for 10 year capital forecast	31,456
Mains	Norman St	140		100	2019	40,928	0	suggested for 10 year capital forecast	40,928
Mains Mains	Norman St Norman St	14 83		100 100	2019 2050	4,003 24,210	0 31	suggested for 10 year capital forecast 1,055	4,003
Mains	Norman St	98		100	2050	29,697	0	suggested for 10 year capital forecast	29,697
Mains	Norman St	120		100	2019	35,061	0	suggested for 10 year capital forecast	35,061
Mains	Norman St	6		100	2105	1,682	86	41	-
Mains	Norman St	10		100	2095	2,965	76	76	-
Mains	Norman St	89		100	2097	25,931	78	659	-
Mains Mains	Norman St Norman St	90		100 100	2097 2105	26,227 486	78 86	667	<u>-</u>
Mains	Norman St	8		100	2105	2,454	86	60	_
Mains	Norman St	0		100	2105	60	86	1	-
Mains	Norman St	1	2005	100	2105	283	86	7	-
Mains	Norman St	1	2005	100	2105	245	86	6	-
Mains	Norman St	18		100	2105	5,233 1,421	86	128	-
Mains Mains	Norman St Norman St	5 11	1997 2005	100 100	2097 2105	3,343	78 86	<u>36</u> 82	<u>-</u>
Mains	Norman St	75		100	2110	21,855	91	523	-
Mains	Norman St	75		100	2110	21,845	91	523	-
Mains	Norman St	75		100	2110	21,812	91	522	-
Mains	Norman St	74		100	2110	21,482	91	515	-
Mains Mains	Normandy Dr Normandy Dr	36 76		100 100	2084 2084	10,407 22,182	65 65	<u>288</u> 613	-
Mains	Normandy Dr	40		100	2084	11,618	65	321	-
Mains	Normandy Dr	67	1984	100	2084	19,454	65	537	-
Mains	Normandy Dr	38		100	2084	10,974	65	303	-
Mains	Normandy Dr	22	1984	100	2084	6,528	65	180	-
Mains	Normandy Dr	109		100	2084	31,754 20,216	65	877	-
Mains Mains	Nornabell Ct Nornabell Ct	69 36		100 100	2104 2104	10,622	85 85	497 261	-
Mains	Nornabell Ct	20		100	2104	5,829	85	143	-
Mains	North St	35		100	2019	10,668	0	suggested for 10 year capital forecast	10,668
Mains	North St	16	1987	100	2087	4,765	68	129	-
Mains	Northway Crcl	93			2089		70	724	-
Mains	Norwood Ct	24		100	2088		69	189	-
Mains Mains	Norwood Ct Norwood Ct	79 29		100 100	2088 2088		69 69	617 226	-
Mains	Norwood Ct	95		100	2088	28,787	68	778	-
Mains	Norwood Ct	58		100	2087	17,523	68	474	-
Mains	Norwood Ct	88	1987	100	2087	26,645	68	720	-
	lou o	118	1973	100	2073	34,408	54	1,048	-
Mains	Oak St								
Mains Mains	Oak St	78	1973	100	2073	22,600 23,962	<u> </u>	688	-
Mains			1973 1973			22,600 23,962 11,332	54 54 54	688 730 345	-



				Sa	nitary Sew	ers			
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Oak St	109	2017	100	2117	37,177	98	868	_
Mains	Oak St	107	1966	100	2066	36,728	47	1,213	_
Mains	Oak St	109	1966	100	2066	37,177	47	1,228	-
Mains	Oak St	86	2008	100	2108	44,742	89	1,080	-
Mains	Oak St	30	2008	100	2108	15,793	89	381	-
Mains	Oak St	85	2008	100	2108	44,118	89	1,065	-
Mains	Oak St	3	2008	100	2108	832	89	20	-
Mains	Oak St	5	2008	100	2108	2,220	89	54	-
Mains	Oak St	11	2008	100	2108	4,951	89	120	-
Mains	Oak St	34	2008	100	2108	9,941	89	240	-
Mains	Oak St	88	2008	100	2108	25,553	89	617	-
Mains	Oak St	89	2008	100	2108	25,960	89	627	-
Mains	Oak St	12	2009	100	2109	5,700 13,131	90	137	-
Mains Mains	Oak St Oak St	45 10	2009 2009	100 100	2109 2109	5,040	90 90	316 121	-
Mains	Oakdale Ave	70	1991	100	2091	20,461	72	539	-
Mains	Oakdale Ave	25	1991	100	2091	7,386	72	194	
Mains	Oakdale Ave	66	1991	100	2091	19,096	72	503	<u> </u>
Mains	Oakdale Ave	90	1991	100	2091	26,369	72	694	
Mains	Oakdale Ave	68	1991	100	2091	19,851	72	523	-
Mains	Oakdale Ave	22	1991	100	2091	6,454	72	170	-
Mains	O'Loane Ave	20	2004	100	2104	11,877	85	292	-
Mains	O'Loane Ave	18		100	2109	9,444	90	227	-
Mains	O'Loane Ave	91	2009	100	2109	47,212	90	1,135	-
Mains	O'Loane Ave	89	2009	100	2109	46,113	90	1,109	-
Mains	O'Loane Ave	92	2009	100	2109	47,667	90	1,146	-
Mains	O'Loane Ave	95	2009	100	2109	49,367	90	1,187	-
Mains	O'Loane Ave	89	2009	100	2109	46,246	90	1,112	-
Mains	O'Loane Ave	95	2009	100	2109	49,405	90	1,188	-
Mains	O'Loane Ave	107	2009	100	2109	55,360	90	1,331	-
Mains	O'Loane Ave	14	2009	100	2109	3,937	90	95	-
Mains	O'Loane Ave	92	2009	100	2109	47,928	90	1,152	-
Mains	O'Loane Ave	15		100	2109	4,454	90	107	-
Mains	O'Loane Ave	75	2009	100	2109	39,222	90	943	-
Mains	O'Loane Ave	70		100	2109	36,112	90	868	-
Mains	Ontario St	84	1912	100	2019	24,355	0	suggested for 10 year capital forecast	24,355
Mains	Ontario St	103	1912	100	2019	29,948 22,389	0	suggested for 10 year capital forecast	29,948
Mains Mains	Ontario St Ontario St	77 1	1912 1919	100 100	2019 2019	365	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	22,389 365
Mains	Ontario St	82	1919	100	2019	23,811	0	suggested for 10 year capital forecast	23,811
Mains	Ontario St	83	1912	100	2019	35,570	35	1,423	23,011
Mains	Ontario St	66	1912	100	2019	19,356	0	suggested for 10 year capital forecast	19,356
Mains	Ontario St	117	1913	100	2019	34,225	0	suggested for 10 year capital forecast	34,225
Mains	Ontario St	82	1954	100	2054	35,253	35	1,410	-
Mains	Ontario St	128	1913	100	2019	37,311	0	suggested for 10 year capital forecast	37,311
Mains	Ontario St	122	1919	100	2019	37,071	0	suggested for 10 year capital forecast	37,071
Mains	Ontario St	29	1954	100	2054	12,497	35	500	-
Mains	Ontario St	30	1954	100	2054	13,120	35	525	-
Mains	Ontario St	57	1954	100	2054	24,604	35	984	-
Mains	Ontario St	75	1912	100	2019	21,986	0	suggested for 10 year capital forecast	21,986
Mains	Ontario St	18	1957	100	2057	5,071	38	192	-
Mains	Ontario St	120	1919	100	2019	36,587	0	suggested for 10 year capital forecast	36,587
Mains	Ontario St	47	1912	100	2019	13,752	0	suggested for 10 year capital forecast	13,752
Mains	Ontario St	90	2008	100	2108	38,663	89	933	-
Mains Mains	Ontario St	90 20	2008 2008	100	2108	40,034 8,782	89 89	967 212	-
Mains Mains	Ontario St Ontario St	85	2008	100 100	2108 2108	37,585	89 89	907	-
Mains	Ontario St Ontario St	52	2008	100	2108		89 89	560	<u>-</u> -
Mains	Ontario St	60		100	2108	26,752	89	646	<u> </u>
Mains	Ontario St	40	2008	100	2108	13,636	89	329	_
Mains	Ontario St	78	2008	100	2108	23,732	89	573	<u> </u>
Mains	Ontario St	53	2008	100	2108	15,439	89	373	-
Mains	Ontario St	34	2008	100	2108	10,425	89	252	
Mains	Ontario St	16	2008	100	2108	5,353	89	129	-
Mains	Ontario St	17	1982	100	2082	4,954	63	139	-
Mains	Ontario St	25	1984	100	2084	7,360	65	203	-
Mains	Ontario St	89	2008	100	2108	26,916	89	650	-
Mains	Ontario St	75	1966	100	2066	22,827	47	754	-
Mains	Ontario St	82	1966	100	2066	24,819	47	819	-
Mains	Ontario St	72	1966				47	722	-
Mains	Ontario St	95	1966		2066	32,664	47	1,078	-
Mains	Ontario St	90		100	2066	30,957	47	1,022	-
Mains	Ontario St	75	1966		2066	22,687	47	749	-
Mains	Ontario St	82	1966		2066	23,921	47	790	-
Mains	Ontario St	85	1966		2066	25,740 26,100	47	850	-
Mains	Ontario St	86	1966		2066	26,199 22,891	47	865	-
Mains Mains	Ontario St	79 27	1966 1954	100 100	2066 2054	7,986	47 35	756 319	<u> </u>
Mains	Ontario St Ontario St	93	1954		2054	27,156	0	suggested for 10 year capital forecast	27,156
Mains	Ontario St	93			2019	2,624	0	suggested for 10 year capital forecast	2,624
17101110	Toritano ot	<u> </u>	1312	100	2019	2,024	U	ouggosted for 10 year capital forecast	2,024



Amount to Replace **Total Main** Length Year Estimated Years until be included Replacement **Annual Lifecycle Contribution** Street Asset ment Replacement Installed Life in 10 year (m) Year Costs Forecast 24,069 Mains Ontario St 83 1912 100 suggested for 10 year capital forecast 24,069 23,932 Mains Oxford St 82 1965 100 46 23,657 Mains Oxford St 81 1965 100 2065 46 791 Oxford St 25,686 Mains 88 1965 100 2065 46 859 16,471 Mains Oxford St 57 1965 100 2065 46 551 23,440 Oxford St 100 Mains 80 1965 2065 46 784 7,491 100 Mains Oxford St 26 1965 2065 46 251 7,248 100 Mains Oxford St 25 2017 2117 98 169 22,559 100 Mains Oxford St 74 2017 2117 98 527 27,357 Mains Oxford St 90 2017 100 2117 98 639 38,100 100 Mains Packham Ave 88 1998 2098 79 964 37,479 100 79 Mains Packham Ave 87 1998 2098 948 21,081 100 79 Mains Packham Ave 49 1998 2098 533 39,030 91 Mains Packham Ave 1998 100 2098 79 987 38,845 79 Mains Packham Ave 90 1998 100 2098 982 38,217 Mains 89 1998 100 2098 79 967 Packham Ave 39,922 79 Mains 93 1998 100 2098 1,010 Packham Ave 7,471 Palmer Sq 26 1953 100 2053 34 305 Mains 8,382 100 342 Mains Palmer Sq 29 1953 2053 34 18,634 Palmer Sq 64 100 34 Mains 1953 2053 761 Mains 8,829 Park Lane Dr 30 1971 100 2071 52 275 26,300 Mains Park Lane Dr 90 1971 100 2071 52 818 Park Lane Dr 18,454 Mains 63 1973 100 2073 54 562 Park Lane Dr 22,348 Mains 77 1973 100 2073 54 681 20,758 Park St 100 49 Mains 68 1968 2068 668 23,173 Park St 100 49 Mains 76 1968 2068 746 16,371 Mains Park St 56 1996 100 2096 77 419 Mains Park St 91 100 26,517 77 1996 2096 678 25,916 Mains Parkview Dr 25,916 85 1914 100 2019 suggested for 10 year capital forecast 28,065 suggested for 10 year capital forecast Mains Parkview Dr 92 1913 100 2019 28,065 20,554 Mains Patricia Rd 71 1973 100 2073 54 626 5,910 Mains Patricia Rd 20 1973 100 2073 54 180 Mains Patricia Rd 46 1973 100 2073 13,519 54 412 22,361 Mains Patricia Rd 77 1968 100 2068 49 720 20,724 Mains Patricia Rd 71 1968 100 2068 49 667 19,193 54 Mains Patricia Rd 66 1973 100 2073 584 4,137 2074 Mains Patricia Rd 14 1974 100 55 125 9,856 Mains Patricia Rd 34 1974 100 2074 55 297 11,122 Mains Patricia Rd 38 100 2073 54 339 1973 21,325 Mains Patricia Rd 73 1974 100 2074 55 643 21,811 Mains Patricia Rd 75 1974 100 2074 55 657 22,310 Mains Patricia Rd 77 1974 100 2074 55 672 1,474 Mains Patricia Rd 5 1968 100 2068 49 47 5,226 Mains Patricia Rd 18 1968 100 2068 49 168 2,477 100 Mains Patterson St 9 1982 2082 63 70 33,461 100 Mains Perth Line 33 120 1996 2096 77 855 23,311 Mains Perth Line 33 80 1996 100 2096 77 596 37,637 Mains Perth Line 33 135 1996 100 2096 77 962 44,607 Perth Line 33 Mains 160 1996 100 2096 77 1,140 44,607 Perth Line 33 100 77 1,140 Mains 160 1996 2096 Perth Line 36 9,878 100 2117 98 Mains 28 2017 231 23,681 Perth St Mains 78 1922 100 2022 suggested for 10 year capital forecast 23,681 28,269 Perth St Mains 93 1916 100 2019 suggested for 10 year capital forecast 28,269 28,048 Mains Perth St 92 1914 100 2019 suggested for 10 year capital forecast 28,048 28,550 Mains Perth St 94 1914 100 2019 28,550 suggested for 10 year capital forecast 27,339 Perth St 90 1914 100 2019 27,339 Mains suggested for 10 year capital forecast 26,151 Perth St 86 1914 100 2019 26,151 Mains suggested for 10 year capital forecast 26,555 Mains Perth St 87 1914 100 2019 26,555 suggested for 10 year capital forecast 4,441 1920 100 suggested for 10 year capital forecast 4,441 Mains Peter St 15 2020 20,211 1920 100 2020 suggested for 10 year capital forecast 20,211 Mains Peter St 69 Pine St 1947 2047 27,108 28 Mains 93 100 1,274 Mains Pine St 1928 2028 36,251 119 100 36,251 suggested for 10 year capital forecast 2019 30,514 Mains Player St 100 1916 100 30,514 suggested for 10 year capital forecast Player St 31,278 103 1921 100 2021 31,278 Mains suggested for 10 year capital forecast 2,793 Pleasant Dr 1977 100 2077 Mains 10 58 82 28,067 Pleasant Dr 96 1954 100 2054 35 1,123 Mains Pleasant Dr 47 1954 100 2054 13,692 35 548 Mains Pleasant Dr 5,583 Mains 19 1954 100 2054 35 223 Pleasant Dr 100 2054 26,053 Mains 89 1954 35 1,042 Pleasant Dr 100 28,554 Mains 98 1954 2054 35 1,142 Polley PI 100 2078 14,649 425 Mains 50 1978 59 9,033 Portia Blvd Mains 31 2016 100 2116 97 212 Portia Blvd 5 2016 100 2116 1,436 97 34 Mains 2,938 Portia Blvd 10 2016 100 2116 97 69 Mains 3,407 Portia Blvd 11 100 2100 81 85 Mains 2000 8,107 1947 100 2047 28 381 Mains Portia Blvd 29 29,875 Mains Portia Blvd 103 1947 100 2047 28 1,404 24,991 Mains Portia Blvd 86 1947 100 2047 28 1,174 4,502 Mains Portia Blvd 15 1924 100 2024 suggested for 10 year capital forecast 4,502 4,274 Portia Blvd Mains 15 1947 100 2047 28 201



				Sa	nitary Sau	ore			
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Portia Blvd	27	2000	100	2100	7,728		193	-
Mains	Preston St	23	2006	100	2106	6,704	ű.	163	-
Mains Mains	Princess St Princess St	110 68		100 100	2052 2052	31,920 19,845		1,331 827	-
Mains	Princess St	91	1952	100	2052	26,398		1,100	<u> </u>
Mains	Princess St	31	1952	100	2052	8,894		371	-
Mains	Princess St	107	1907	100	2019	32,421	0	suggested for 10 year capital forecast	32,421
Mains	Princess St	116		100	2019	35,195		suggested for 10 year capital forecast	35,195
Mains Mains	Princess St Princess St	76 16		100 100	2019 2070	22,016 4,699		suggested for 10 year capital forecast	22,016
Mains	Queen St	15		100	2024	7,882		suggested for 10 year capital forecast	7,882
Mains	Queen St	124	1918	100	2019	37,702	0	suggested for 10 year capital forecast	37,702
Mains	Queen St	75		100	2024	22,861	5	suggested for 10 year capital forecast	22,861
Mains Mains	Queen St Queen St	94		100 100	2024 2019	32,242 28,475		suggested for 10 year capital forecast suggested for 10 year capital forecast	32,242 28,475
Mains	Queen St	92		100	2019	28,062		suggested for 10 year capital forecast	28,062
Mains	Queen St	82		100	2019	23,873	0	suggested for 10 year capital forecast	23,873
Mains	Queen St	10		100	2024	2,994	5	suggested for 10 year capital forecast	2,994
Mains	Queen St	111	1924	100	2024	57,551 7,857	5	suggested for 10 year capital forecast	57,551
Mains Mains	Queen St Queen St	15 92		100 100	2024 2019	28,089		suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 28,089
Mains	Queen St	83		100	2019	42,882		suggested for 10 year capital forecast	42,882
Mains	Queen St	131	1924	100	2024	67,968	5	suggested for 10 year capital forecast	67,968
Mains	Queen St	113		100	2019	34,418		suggested for 10 year capital forecast	34,418
Mains	Queen St	95		100	2024	49,306 39,217		suggested for 10 year capital forecast	49,306
Mains Mains	Queen St Queen St	129 129		100 100	2019 2019	39,166	_	suggested for 10 year capital forecast suggested for 10 year capital forecast	39,217 39,166
Mains	Queen St	19		100	2053	5,353		219	-
Mains	Queensland Rd	57		100	2077	55,170	58	1,616	-
Mains	Queensland Rd	87	1977	100	2077	83,421	58	2,443	-
Mains	Queensland Rd	68		100	2077	65,217 80,978		1,910	-
Mains Mains	Queensland Rd Queensland Rd	84 77	1977 1977	100 100	2077 2077	74,114		2,372 2,171	
Mains	Queensland Rd	73		100	2077	69,930		2,048	-
Mains	Queensland Rd	61	1977	100	2077	58,755		1,721	-
Mains	Queensland Rd	60		100	2077	58,125		1,702	-
Mains Mains	Queensland Rd Queensland Rd	73 33		100 100	2077 2109	70,662 9,478		2,069 228	-
Mains	Queensland Rd	46		100	2109	13,284		319	<u> </u>
Mains	Queensland Rd	22		100	2109	6,497	90	156	-
Mains	Railway Ave	99		100	2076	30,074	-	889	-
Mains	Railway Ave	43		100	2075	13,160 30,875		393	-
Mains Mains	Railway Ave Railway Ave	102 91	1975 2017	100 100	2075 2117	27,621	56 98	922 645	<u> </u>
Mains	Railway Ave	85		100	2117	25,799		603	-
Mains	Railway Ave	143		100	2019	43,368		suggested for 10 year capital forecast	43,368
Mains	Railway Ave	91	1910	100	2019	27,621	0	suggested for 10 year capital forecast	27,621
Mains	Railway Ave	85 118		100 100	2019 2019	25,799 35,878		suggested for 10 year capital forecast	25,799 35,878
Mains Mains	Railway Ave Railway Ave	104		100	2019	31,761	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	31,761
Mains	Railway Ave	70		100	2107	67,098	_	1,627	-
Mains	Railway Ave	108	2007	100	2107	104,299	88	2,529	-
Mains	Railway Ave	45		100	2091	13,067	72	344	-
Mains Mains	Railway Ave Railway Ave	5 18		100 100	2091 2107	1,514 6,199		40 150	-
Mains	Railway Ave	70		100	2107	67,162		1,628	-
Mains	Railway Ave	70		100	2107	67,207	88	1,629	-
Mains	Railway Ave	56		100	2107	16,465		399	-
Mains	Railway Ave	57 72	2007 2007	100	2107	16,529 21,041		401	-
Mains Mains	Railway Ave Railway Ave	73		100 100	2107 2107	21,346		510 518	<u> </u>
Mains	Railway Ave	73		100	2107	21,176		513	-
Mains	Railway Ave	93	2011	100	2111	31,940	92	762	-
Mains	Railway Ave	96		100	2111	27,941	92	667	-
Mains Mains	Railway Ave	90		100 100	2111 2111	30,800 27,189	~=	735 649	<u>-</u>
Mains Mains	Railway Ave Railway Ave	43		100	2111	12,417		296	-
Mains	Railway Ave	39		100	2111	13,355		319	
Mains	Rankin St	106			2084			850	-
Mains	Rankin St	4		100	2103	1,272	1	31	
Mains Mains	Rebecca St Rebecca St	89 110		100 100	2019 2021	30,435 150,046		suggested for 10 year capital forecast	30,435 150,046
Mains Mains	Rebecca St	88		100	2021			suggested for 10 year capital forecast suggested for 10 year capital forecast	30,259
ivialis	Rebecca St	79		100	2019		_	suggested for 10 year capital forecast	27,925
Mains				100	2019	1,273	0	suggested for 10 year capital forecast	1,273
	Rebecca St	4		100					
Mains Mains Mains	Rebecca St	136	1921	100	2021	186,402	<del>                                     </del>	suggested for 10 year capital forecast	
Mains Mains Mains Mains	Rebecca St Rebecca St	136 126	1921 1921	100 100	2021 2021	172,383	2	suggested for 10 year capital forecast	172,383
Mains Mains Mains	Rebecca St	136	1921 1921 1897	100	2021		2	, ,	186,402 172,383 30,548 26,290



				Sa	nitary Sew	/ers			
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Rebecca St	140	1921	100	2021	191,162	2	suggested for 10 year capital forecast	191,162
Mains	Redford Cres	78		100	2059	22,641	40	828	-
Mains	Redford Cres	69		100	2064	20,052		680	-
Mains	Redford Cres	65		100	2063	18,984	44	653	-
Mains	Redford Cres	76	1959	100	2059	22,208	40	812	-
Mains	Redford Cres	77	1959	100	2059	22,385	40	818	-
Mains	Redford Cres	111	1964	100	2064	32,446	45	1,100	-
Mains	Redford Cres	7	1965	100	2065	1,924	46	64	-
Mains	Redford Cres	90	1965	100	2065	26,264	46	879	-
Mains	Redford Cres	101	1965	100	2065	29,302		980	-
Mains	Redford Cres	69		100	2064	20,020		679	-
Mains	Redford Cres	91	1963	100	2063	26,593		914	-
	Redford Cres	92		100	2063	26,883		924	-
	Regent St	93		100	2022	28,369		suggested for 10 year capital forecast	28,369
	Regent St	89		100	2025	26,036 28,043		suggested for 10 year capital forecast	26,036
	Regent St	92		100	2025	27,810		suggested for 10 year capital forecast	28,043
	Regent St	91	1922	100	2022	23,760	_	suggested for 10 year capital forecast	27,810
	Riehl Ct	82		100	2068	2,006,183		765	-
	Romeo St N Romeo St N	1,139 1,120		100 100	2098 2098	1,973,035	10	50,739 49,900	<u> </u>
Mains Mains	Romeo St N	1,120 1,126		100	2098	1,983,245		49,900 50,159	<u> </u>
Mains Mains	Romeo St N	1,126		100	2098	5,465		50,159	<u>-</u>
	Romeo St N	48		100	2098	20,843		138 527	<u> </u>
Mains	Romeo St N	28		100	2098	12,093		306	<u> </u>
	Romeo St N	34		100	2098	14,645		370	
	Romeo St N	90		100	2098	30,639		775	<u>-</u>
	Romeo St N	47	1998	100	2098	16,248		411	-
	Romeo St N	62		100	2098	21,070		533	-
	Romeo St N	82		100	2098	27,934		706	-
	Romeo St N	90		100	2098	30,626		775	-
Mains	Romeo St N	71	1998	100	2098	21,588		546	-
Mains	Romeo St N	13		100	2098	4,072		103	-
Mains	Romeo St N	50	1998	100	2098	17,095	79	432	-
Mains	Romeo St N	63	1998	100	2098	21,403	79	541	-
Mains	Romeo St N	93	2006	100	2106	39,885	87	971	-
Mains	Romeo St N	91	1998	100	2098	31,294	79	791	-
Mains	Romeo St N	90	1998	100	2098			781	-
Mains	Romeo St N	18	1998	100	2098			193	-
Mains	Romeo St N	70	1998	100	2098		_	539	-
Mains	Romeo St N	37	1998	100	2098		_	285	-
Mains	Romeo St N	19		100	2104	5,462		134	-
Mains	Romeo St N	23		100	2105			238	-
Mains	Romeo St N	111		100	2060			1,216	-
Mains	Romeo St S	15		100	2098		_	213	-
Mains	Romeo St S	242		100	2098		_	14,276	-
Mains	Romeo St S	299		100	2098		_	13,304	-
Mains	Romeo St S Romeo St S	301	1998 1998	100 100	2098 2098			13,411 13,554	
Mains Mains	Romeo St S	304 95		100	2096	49,274		1,471	
Mains	Romeo St S	71	1975	100	2075	36,971	56	1,103	
Mains	Romeo St S	31	1975	100	2075	15,942		476	
Mains	Romeo St S	86		100	2075	44,792		1,337	_
Mains	Romeo St S	96		100	2116		97	1,173	-
Mains	Romeo St S	86		100	2116			1,052	-
Mains	Romeo St S	90		100	2117	46,761	98	1,092	
Mains	Romeo St S	162		100	2117	84,200	98	1,966	-
Mains	Romeo St S	86		100	2117	44,792	98	1,046	
Mains	Romeo St S	95	2017	100	2117	49,274		1,151	-
Mains	Romeo St S	31	2017	100	2117	15,942		372	-
Mains	Romeo St S	71	2017	100	2117	36,971		863	-
Mains	Romeo St S	76		100	2076			795	-
Mains	Romeo St S	86		100	2076			901	-
Mains	Romeo St S	68	1976	100	2076	24,173		715	-
Mains	Romeo St S	52	1976	100	2076	18,276	_	540	-
Mains	Romeo St S	162	1914	100	2019	84,200	_	suggested for 10 year capital forecast	84,200
Mains	Romeo St S	90		100	2019	46,761 30,558	0	suggested for 10 year capital forecast	46,761
Mains	Romeo St S	89		100	2053			1,247	- 04.040
Mains	Romeo St S	98		100	2019			suggested for 10 year capital forecast	34,943
	Romeo St S Romeo St S	98		100 100	2019 2053			suggested for 10 year capital forecast	34,769
Mains Mains	Romeo St S	113 93		100	2053			1,579 1,300	
	Romeo St S	93		100	2053			suggested for 10 year capital forecast	28,321
	Romeo St S	93	1914	100	2019			suggested for 10 year capital forecast	27,545
	Romeo St S	28		100	2019			198	21,040
	Romeo St S	34			2096			252	
	Romeo St S	26		100	2108			376	
	Romeo St S	16			2108			230	-
	Romeo St S	11		100	2108			154	-
	Romeo St S	55		100	2108		89	784	
	Romeo St S	28						400	-
<u> </u>	<del>.</del>					, , ,		400	



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Romeo St S	27	1998	100	2098	7,412	79	187	-
Mains	Romeo St S	72	1998	100	2098	20,860	79	528	-
Mains	Romeo St S	4		100	2098	1,187 8,032	79	30	
Mains Mains	Romeo St S Romeo St S	28 14		100 100	2098 2103	3,935	79 84	203 97	-
Mains	Romeo St S	6		100	2099	1,817	80	46	
Mains	Romeo St S	6	1999	100	2099	1,880	80	47	-
Mains	Romeo St S	11	1998	100	2098	3,914	79	99	
Mains	Romeo St S Romeo St S	27 33		100 100	2105 2067	8,104 9,154	86 48	198 298	
Mains Mains	Romeo St S	26		100	2057	8,827	34	360	
Mains	Romeo St S	80		100	2073	24,209	54	737	-
Mains	Romeo St S	11	1973	100	2073	3,479	54	106	-
Mains	Ross St	98		100	2019	29,944	0	suggested for 10 year capital forecast	29,944
Mains	Russell Dr Rutherford Dr	12		100	2110	3,548 22,268	91	85	-
Mains Mains	Rutherford Dr	76 75		100 100	2106 2106	21,889	87 87	542 533	-
Mains	Rutherford Dr	23		100	2106	6,767	87	165	-
Mains	Rutherford Dr	59	2006	100	2106	17,109	87	417	-
Mains	Rutherford Dr	60		100	2106	17,488	87	426	-
Mains	Sanitary Sewer Line	16		100	2073	4,435 19,421	54	135 625	-
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	64 49		100 100	2068 2076	14,841	49 57	439	
Mains	Sanitary Sewer Line	32		100	2076	9,795	57	290	
Mains	Sanitary Sewer Line	95	1971	100	2071	27,796	52	865	-
Mains	Sanitary Sewer Line	61	1976	100	2076	18,587	57	549	-
Mains	Sanitary Sewer Line Sanitary Sewer Line	56 104		100 100	2075 2080	16,263 30,320	56 61	485 865	-
Mains Mains	Sanitary Sewer Line	77	1976	100	2076	23,363	57	691	-
Mains	Sanitary Sewer Line	58		100	2079	17,778	60	511	-
Mains	Sanitary Sewer Line	40		100	2076	12,272	57	363	-
Mains	Sanitary Sewer Line	77	1976	100	2076	33,326	57	985	-
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	61 17	1979 1976	100 100	2079 2076	18,616 5,268		536 156	-
Mains	Sanitary Sewer Line	70		100	2076	30,186		892	
Mains	Sanitary Sewer Line	54		100	2078	15,794	59	458	-
Mains	Sanitary Sewer Line	61	1975	100	2075	17,856	56	533	-
Mains	Sanitary Sewer Line	80		100	2075	23,327	56	696	-
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	41	1976 1976	100 100	2076 2076	14,567 13,183	57 57	431 390	-
Mains	Sanitary Sewer Line	56		100	2076	16,182		478	-
Mains	Sanitary Sewer Line	89		100	2076	27,113	57	801	-
Mains	Sanitary Sewer Line	77		100	2063	27,147		934	-
Mains	Sanitary Sewer Line	90		100	2116	26,304	97	616	
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	65 127	2018 2017	100 100	2118 2117	19,064 122,549	99 98	2,862	-
Mains	Sanitary Sewer Line	48		100	2117	14,490	l	338	-
Mains	Sanitary Sewer Line	42		100	2118	12,217	99	284	-
Mains	Sanitary Sewer Line	47	2018	100	2118	14,317	99	333	-
Mains	Sanitary Sewer Line	22		100	2118	6,643 9,161		155	
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	30 78		100 100	2118 2118	23,807	99 99	213 554	-
Mains	Sanitary Sewer Line	29		100	2092	31,027	73	812	-
Mains	Sanitary Sewer Line	80		100	2092	47,364	73	1,239	-
Mains	Sanitary Sewer Line	113		100	2064	58,627	45	1,988	-
Mains	Sanitary Sewer Line	116		100	2064	60,116 50,583		2,039	
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	53 103		100 100	2029 2059	53,594	10 40	suggested for 10 year capital forecast 1,959	50,583
Mains	Sanitary Sewer Line	25		100	2059	12,994	40	475	-
Mains	Sanitary Sewer Line	76		100	2077	73,217	58	2,144	-
Mains	Sanitary Sewer Line	25		100	2024	7,005	_	suggested for 10 year capital forecast	7,005
Mains	Sanitary Sewer Line	92		100	2077	88,654 19,040	58	2,596	-
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	65 52		100 100	2046 2055	31,015		920 1,217	-
Mains	Sanitary Sewer Line	99		100	2064	51,438		1,744	-
Mains	Sanitary Sewer Line	84	1934	100	2034	154,852	15	12,051	-
Mains	Sanitary Sewer Line	127	1934	100	2034	122,549	_	9,537	-
Mains Mains	Sanitary Sewer Line	48		100	2023	14,490 45,625	40	suggested for 10 year capital forecast	14,490
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	56		100	2059 2055	33,172		1,668 1,301	-
Mains	Sanitary Sewer Line	16		100	2029	15,603		suggested for 10 year capital forecast	15,603
Mains	Sanitary Sewer Line	83	1959	100	2059	43,124	40	1,576	
Mains	Sanitary Sewer Line	70		100	2055	41,818		1,641	-
Mains	Sanitary Sewer Line	19		100	2077	18,298		536	
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	70 51	1924 2004	100 100	2024 2104	21,322 53,203		suggested for 10 year capital forecast 1,307	21,322
Mains	Sanitary Sewer Line Sanitary Sewer Line	42		100	2056	12,217	37	1,307	-
Mains	Sanitary Sewer Line	137	1929	100	2029	131,745	10	suggested for 10 year capital forecast	131,745
Mains	Sanitary Sewer Line	55		100	2059	28,534		1,043	-
Mains	Sanitary Sewer Line	37	2004	100	2104	39,174	85	962	-



				Sa	nitary Sew	/ers			
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Sanitary Sewer Line	93	1959	100	2059	48,453	40	1,771	-
Mains	Sanitary Sewer Line	88	1977	100	2077	84,696	58	2,480	-
Mains	Sanitary Sewer Line	47	1977	100	2077	45,377	58	1,329	-
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	6	1952 2004	100 100	2052 2104	2,132 6,686	33 85	<u>89</u> 164	-
Mains	Sanitary Sewer Line	125	1959	100	2059	64,767	40	2,368	-
Mains	Sanitary Sewer Line	14	1963	100	2063	7,103	44	244	-
Mains	Sanitary Sewer Line	79	1959	100	2059	41,177	40	1,505	-
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	75 20	1952 1977	100 100	2052 2077	26,745 19,369	33 58	1,115 567	-
Mains	Sanitary Sewer Line Sanitary Sewer Line	72	1907	100	2019	31,890	0	suggested for 10 year capital forecast	31,890
Mains	Sanitary Sewer Line	100	1955	100	2055	59,516	36	2,335	-
Mains	Sanitary Sewer Line	203	1929	100	2029	195,743	10	suggested for 10 year capital forecast	195,743
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	106	1929 1955	100 100	2029 2055	84,486 55,048	10 36	suggested for 10 year capital forecast 2,160	84,486
Mains	Sanitary Sewer Line Sanitary Sewer Line	91	1955	100	2055	47,248	36	1,854	-
Mains	Sanitary Sewer Line	96	1955	100	2055	49,866	36	1,956	-
Mains	Sanitary Sewer Line	99	1955	100	2055	51,183	36	2,008	-
Mains	Sanitary Sewer Line	2	1923	100	2023	556 19,064	4	suggested for 10 year capital forecast	556
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	65 114	1955 1897	100 100	2055 2019	34,745	36	748 suggested for 10 year capital forecast	34,745
Mains	Sanitary Sewer Line	88	1915	100	2019	37,839	0	suggested for 10 year capital forecast	37,839
Mains	Sanitary Sewer Line	80	1914	100	2019	24,395	0	suggested for 10 year capital forecast	24,395
Mains	Sanitary Sewer Line	92	1949	100	2049	27,957	30	1,248	-
Mains	Sanitary Sewer Line	30	1924 1924	100 100	2024	9,161 23,807	5	suggested for 10 year capital forecast suggested for 10 year capital forecast	9,161
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	78 47	1924	100	2024 2024	14,317	5	suggested for 10 year capital forecast	23,807 14,317
Mains	Sanitary Sewer Line	22	1924	100	2024	6,643	5	suggested for 10 year capital forecast	6,643
Mains	Sanitary Sewer Line	53	1897	100	2019	16,214	0	suggested for 10 year capital forecast	16,214
Mains	Sanitary Sewer Line	134	1914	100	2019	40,794	0	suggested for 10 year capital forecast	40,794
Mains	Sanitary Sewer Line	91 92	1929 1929	100 100	2029 2029	47,351 47,602	10	suggested for 10 year capital forecast	47,351 47,602
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	89	1929	100	2029	46,357	10	suggested for 10 year capital forecast suggested for 10 year capital forecast	47,602 46,357
Mains	Sanitary Sewer Line	70	1900	100	2019	24,097	0	suggested for 10 year capital forecast	24,097
Mains	Sanitary Sewer Line	95	1897	100	2019	28,934	0	suggested for 10 year capital forecast	28,934
Mains	Sanitary Sewer Line	132	1900	100	2019	45,330 49,393	0	suggested for 10 year capital forecast	45,330
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	95 66	1929 1913	100 100	2029 2019	34,058	10	suggested for 10 year capital forecast suggested for 10 year capital forecast	49,393 34,058
Mains	Sanitary Sewer Line	76	1915	100	2019	32,873	0	suggested for 10 year capital forecast	32,873
Mains	Sanitary Sewer Line	100	1923	100	2023	30,527	4	suggested for 10 year capital forecast	30,527
Mains	Sanitary Sewer Line	78	1949	100	2049	26,537	30	1,185	-
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	9 21	1949 1924	100 100	2049 2024	3,104 6,347	30 5	139	6,347
Mains	Sanitary Sewer Line	76	1913	100	2019	39,321	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	39,321
Mains	Sanitary Sewer Line	95	1929	100	2029	49,258	10	suggested for 10 year capital forecast	49,258
Mains	Sanitary Sewer Line	136	1915	100	2019	41,393	0	suggested for 10 year capital forecast	41,393
Mains	Sanitary Sewer Line	18	1900	100	2019	6,201 11,148	0	suggested for 10 year capital forecast	6,201
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	40 67	1920 1920	100 100	2020 2020	18,780	1	suggested for 10 year capital forecast suggested for 10 year capital forecast	11,148 18,780
Mains	Sanitary Sewer Line	100	1913	100	2019	51,863	0	suggested for 10 year capital forecast	51,863
Mains	Sanitary Sewer Line	97	1916	100	2019	29,486	0	suggested for 10 year capital forecast	29,486
Mains	Sanitary Sewer Line	111	1920	100	2020		1	suggested for 10 year capital forecast	33,885
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	108 90	1913 1929	100 100	2019 2029		10	suggested for 10 year capital forecast suggested for 10 year capital forecast	38,383 46,951
Mains	Sanitary Sewer Line	6	1912	100	2019		0	suggested for 10 year capital forecast	1,791
Mains	Sanitary Sewer Line	117	1900	100	2019		0	suggested for 10 year capital forecast	39,983
Mains	Sanitary Sewer Line	14	1929	100	2029			suggested for 10 year capital forecast	7,248
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	55 53	1929 1929	100 100	2029 2029		10 10	suggested for 10 year capital forecast	28,751 27,718
Mains	Sanitary Sewer Line	105	1929	100	2029		0	suggested for 10 year capital forecast suggested for 10 year capital forecast	35,963
Mains	Sanitary Sewer Line	90	1910		2019		0	suggested for 10 year capital forecast	30,715
Mains	Sanitary Sewer Line	23	1910	100	2019		0	suggested for 10 year capital forecast	7,750
Mains	Sanitary Sewer Line	2	1913	100	2019		0	suggested for 10 year capital forecast	877
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	53 53	1897 1986	100 100	2019 2086		0 67	suggested for 10 year capital forecast 404	9,407
Mains	Sanitary Sewer Line	53	1981	100	2081	15,528	62	439	
Mains	Sanitary Sewer Line	41	1982	100	2082	11,984	63	336	-
Mains	Sanitary Sewer Line	64	1982	100	2082	18,566	63	521	-
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	80 90	1982 1982	100 100	2082 2082	23,317 26,232	63 63	654 736	-
Mains	Sanitary Sewer Line Sanitary Sewer Line	100	1982	100	2082	29,146		824	-
Mains	Sanitary Sewer Line	38	1982	100	2082	11,049		310	-
Mains	Sanitary Sewer Line	100	1981	100	2081	29,146		824	-
Mains	Sanitary Sewer Line	80	1982	100	2082	23,254	63	652	-
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	100 75	1981 1981	100 100	2081 2081	29,268 21,860	62 62	828 618	-
Mains	Sanitary Sewer Line Sanitary Sewer Line	75 75	1981	100	2081	21,860	62	618	-
Mains	Sanitary Sewer Line	80	1982	100	2082	23,194	63	651	-
Mains	Sanitary Sewer Line	82	1982	100	2082	23,922	63	671	-
Mains	Sanitary Sewer Line	50	1981	100	2081	14,573	62	412	-



				Sa	nitary Sew	/ers			
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Sanitary Sewer Line	91	1982	100	2082	26,523	63	744	-
Mains	Sanitary Sewer Line	50	1982	100	2082	14,629	63	410	-
Mains	Sanitary Sewer Line	5	2004	100	2104	5,206	85	128	-
Mains	Sanitary Sewer Line	4	2004	100	2104	3,734	85	92	-
Mains	Sanitary Sewer Line	178	2004	100	2104	429,552	85	10,551	-
Mains	Sanitary Sewer Line	170	2004	100	2104	408,227	85	10,027	-
Mains	Sanitary Sewer Line	160	2004	100	2104	385,240	85	9,463	-
Mains	Sanitary Sewer Line	96	2004	100	2104	56,928	85	1,398	-
Mains	Sanitary Sewer Line	90	2004	100	2104	53,609	85	1,317	-
Mains	Sanitary Sewer Line	82	2004	100	2104	48,799	85	1,199	-
Mains	Sanitary Sewer Line	5	2004	100	2104	5,312	85	130	-
Mains	Sanitary Sewer Line	59	2004	100	2104	35,091	85	862	-
Mains	Sanitary Sewer Line	22	2004	100	2104	54,120	85	1,329	-
Mains	Sanitary Sewer Line	9	2004	100	2104	27,970 171,446	85	687	-
Mains	Sanitary Sewer Line	71	2004	100	2104	5,461	85 47	4,211	-
Mains Mains	Sanitary Sewer Line	15 37	1966 2004	100 100	2066	39,178		180 962	-
Mains	Sanitary Sewer Line Sanitary Sewer Line	73	1966	100	2104 2066	25,751	47	850	-
Mains	Sanitary Sewer Line	41	2004	100	2104	99,659		2,448	-
Mains	Sanitary Sewer Line	93	2004	100	2104	292,352	85	7,181	
Mains	Sanitary Sewer Line	24	2004	100	2104	44,894	85	1,103	
Mains	Sanitary Sewer Line	55	1999	100	2099	16,607	80	418	-
Mains	Sanitary Sewer Line	37	1986	100	2086	10,444	67	284	-
Mains	Sanitary Sewer Line	21	1993	100	2093	5,922	74	154	-
Mains	Sanitary Sewer Line	43	1987	100	2087	12,982	68	351	-
Mains	Sanitary Sewer Line	21	1978	100	2078	6,408	59	186	-
Mains	Sanitary Sewer Line	72	1999	100	2099	24,795	80	624	ı
Mains	Sanitary Sewer Line	100	1981	100	2081	29,019	62	821	-
Mains	Sanitary Sewer Line	47	1999	100	2099	16,042	80	404	-
Mains	Sanitary Sewer Line	108	1981	100	2081	31,446		889	-
Mains	Sanitary Sewer Line	12	1978	100	2078	3,719		108	-
Mains	Sanitary Sewer Line	91	1987	100	2087	27,543	55	745	-
Mains	Sanitary Sewer Line	13	1978	100	2078	3,897	59	113	-
Mains	Sanitary Sewer Line	14	1993	100	2093	4,027	74	105	-
Mains	Sanitary Sewer Line	14	1993	100	2093	4,135		108	-
Mains	Sanitary Sewer Line	39	1991	100	2091	11,316		298	-
Mains	Sanitary Sewer Line	24	1978	100	2078	7,256 14,873		211	-
Mains Mains	Sanitary Sewer Line Sanitary Sewer Line	53 17	1997 2007	100 100	2097 2107	5,091	78 88	378 123	-
Mains	Sanitary Sewer Line Sanitary Sewer Line	14	1991	100	2091	4,028		123	
Mains	Sanitary Sewer Line Sanitary Sewer Line	120	1952	100	2052	53,044	33	2,211	
Mains	Sanitary Sewer Line	75	1964	100	2064	20,958		711	
Mains	Sanitary Sewer Line	74	1956	100	2056	20,517	37	790	-
Mains	Sanitary Sewer Line	22	1957	100	2057	6,458		244	-
Mains	Sanitary Sewer Line	99	1952	100	2052	43,877	33	1,829	-
Mains	Sanitary Sewer Line	76	1964	100	2064	22,253	45	755	-
Mains	Sanitary Sewer Line	104	1952	100	2052	46,190	33	1,926	-
Mains	Sanitary Sewer Line	76	1964	100	2064	22,214	45	753	ì
Mains	Sanitary Sewer Line	117	1910	100	2019	33,986	0	suggested for 10 year capital forecast	33,986
Mains	Sanitary Sewer Line	92	1962	100	2062	32,471	43	1,133	-
Mains	Sanitary Sewer Line	14	1976	100	2076	3,922	57	116	-
Mains	Sanitary Sewer Line	14	1976	100	2076	3,994	57	118	-
Mains	Sanitary Sewer Line-1286	15	1897	100	2019	5,184	0	suggested for 10 year capital forecast	5,184
Mains	Sanitary Sewer Line-2201	104	1897	100	2019	35,582	0	suggested for 10 year capital forecast	35,582
Mains	Sargint St	28	1976	100	2076	8,513	57	252	-
Mains	Sargint St	83	1976	100	2076	25,245 22,931	57 57	746	-
Mains Mains	Sargint St	75 76	1976 1976	100 100	2076 2076	23,200	57 57	678 686	-
Mains	Sargint St Sargint St	76 76	1976 1976	100	2076	23,200	57 57	683	-
Mains	Scott St	79	1976	100	2076	26,948		797	
Mains	Scott St	78	1976	100	2076	26,550		797	-
Mains	Scott St	59	1976	100	2076	20,224	57	598	-
Mains	Scott St	17	1976	100	2076	5,170		153	-
Mains	Shakespeare St	143	1917	100	2019	43,427	0	suggested for 10 year capital forecast	43,427
Mains	Shakespeare St	120	1917	100	2019	36,578	0	suggested for 10 year capital forecast	36,578
Mains	Shakespeare St	87	1916	100	2019	26,332	0	suggested for 10 year capital forecast	26,332
Mains	Shakespeare St	136	1916	100	2019	41,505	0	suggested for 10 year capital forecast	41,505
Mains	Shakespeare St	91	2013	100	2113	26,544	94	629	-
Mains	Shakespeare St	81	2013	100	2113	23,579		558	-
Mains	Shakespeare St	79	2013		2113		1	547	-
Mains	Shakespeare St	37	2013	100		10,783		255	-
Mains	Shakespeare St	91	2013	100		26,435		626	-
Mains	Shakespeare St	91	2013	100		26,507	94	628	-
Mains	Sharman St	79	1987	100	2087	24,041	68	650	-
Mains	Sharman St	65	1987	100	2087	19,646 15,157	1	531	-
Mains	Short St	52	2015	100	2115	15,157 16,868	96	356	-
Mains Mains	Short St Shrewsbury St	58	2015	100	2115	16,868 9,352		suggested for 10 year capital forecast	0.050
Mains Mains	•	31 92	1918 1918	100 100	2019 2019	27,935	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	9,352
Mains	Shrewsbury St	80	1918 1918					, ,	27,935
iviaii15	Shrewsbury St	8U	1918	100	2019	24,430	U	suggested for 10 year capital forecast	24,438



Mains   Sircox P    46   1987   100   2007   13.078   68	354 ear capital forecast ear capital forecast ear capital forecast ear capital forecast ear capital forecast ear capital forecast 376 1,027 987 353 305 465 385 290 210 376 106 430 237 508 527 228 610 85	
Mains Simcoe St 661 1925 100 2025 17.785 6 suggested for 10 yr Mains Simcoe St 99 1925 100 2025 17.278 6 suggested for 10 yr Mains Simcoe St 99 1925 100 2025 17.278 6 suggested for 10 yr Mains Simcoe St 94 1925 100 2025 27.326 6 suggested for 10 yr Mains Simcoe St 94 1925 100 2025 27.326 6 suggested for 10 yr Mains Simcoe St 94 1925 100 2025 27.326 6 suggested for 10 yr Mains Simcoe St 97 1926 100 2026 27.326 6 suggested for 10 yr Mains Simcoe St 92 1997 100 2026 22.5492 6 suggested for 10 yr Mains Simcoe St 92 1997 100 2026 22.5492 6 suggested for 10 yr Mains Simpson Ct 92 1997 100 2007 25.881 48 148 148 148 148 148 148 148 148 1	par capital forecast par capit	17,278 19,266 27,326 25,452
Mains Simcoe St 661 1925 100 2025 17.785 6 suggested for 10 yr Mains Simcoe St 99 1925 100 2025 17.276 6 suggested for 10 yr Mains Simcoe St 99 1925 100 2025 17.276 6 suggested for 10 yr Mains Simcoe St 94 1925 100 2025 17.276 6 suggested for 10 yr Mains Simcoe St 94 1925 100 2025 27.326 6 suggested for 10 yr Mains Simcoe St 94 1925 100 2025 27.326 6 suggested for 10 yr Mains Simcoe St 97 1926 100 2026 27.326 6 suggested for 10 yr Mains Simcoe St 97 1926 100 2026 22.3452 6 suggested for 10 yr Mains Simcoe St 92 1967 100 2026 25.452 6 suggested for 10 yr Mains Simcoe St 67 1926 100 2026 22.3452 6 suggested for 10 yr Mains Simcoe St 67 2004 100 2026 25.452 6 suggested for 10 yr Mains Simcoe St 67 2004 100 2104 40.188 8 st 67 2004 100 2104 40.188 8 st 74 2004 100 2104 40.188 8 st 74 2004 100 2104 40.188 8 st 74 2004 100 2104 40.188 8 st 74 2004 100 2104 40.188 8 st 74 2004 100 2104 40.188 8 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 100 2104 11.380 25 st 74 2004 2004 100 2104 11.380 25 st 74 2004 2004 2004 2004 100 2104 15.315 85 st 74 2004 2004 2004 2004 100 2104 15.315 85 st 74 2004 2004 2004 2004 100 2104 15.315 85 st 74 2004 2004 2004 2004 2004 2004 2004 2	par capital forecast par capit	17,278 19,266 27,326 25,452
Mains   Simcoe St   59   1925   100   2025   17.278   6   suggested for 10 yr Mains   Simcoe St   66   1925   100   2025   19.286   6   suggested for 10 yr Mains   Simcoe St   71   1925   100   2025   27.388   6   suggested for 10 yr Mains   Simcoe St   87   1925   100   2025   27.382   6   suggested for 10 yr Mains   Simcoe St   87   1925   100   2025   25.432   6   suggested for 10 yr Mains   Simcoe St   87   1925   100   2026   25.432   6   suggested for 10 yr Mains   Simcoe St   87   1925   100   2026   25.432   6   suggested for 10 yr Mains   Sir Adam Beck Rd   70   2004   100   2104   41,817   85   85   85   85   85   85   85   8	ear capital forecast ear capit	17,278 19,266 27,326 25,452
Mains   Simoos St   96   1925   100   2025   19,266   6   suggested for 10 ys	ear capital forecast ear capit	19,266 27,326 25,452 - - - - - - - - - - - - - - - - - - -
Mains         Sincoe St         94         1925         100         2025         27,326         6         suggested for 10 ye           Mains         Simcoe St         87         1925         100         2005         25,452         6         suggested for 10 ye           Mains         Simpson Ct         92         1967         100         2004         2004         40         28,861         48           Mains         Sir Adam Beck Rd         70         2004         100         2104         41,817         85           Mains         Sir Adam Beck Rd         49         2004         100         2104         41,817         85           Mains         Sir Adam Beck Rd         49         2004         100         2104         14,300         85           Mains         Sir Adam Beck Rd         45         2004         100         2104         15,581         85           Mains         Sir Adam Beck Rd         40         2004         100         2104         15,581         85           Mains         Sir Adam Beck Rd         40         2004         100         2104         15,581         85           Mains         Sir Adam Beck Rd         53         2004 <td>ear capital forecast ear capital forecast 876 1,027 987 353 305 465 385 290 210 376 106 430 237 508 527 228 610</td> <td>27,326 25,452</td>	ear capital forecast ear capital forecast 876 1,027 987 353 305 465 385 290 210 376 106 430 237 508 527 228 610	27,326 25,452
Mains   Simoco St   97   1925   100   2026   25,452   6   suggested for 10 ye	ear capital forecast 876 1,027 987 353 305 465 385 290 210 376 106 430 237 508 527 228 610 85	25,452 
Mains   Simpson Ct   92   1967   100   2067   226,861   48   Mains   Sir Adam Beck Rd   70   2004   100   2104   41,817   85   Mains   Sir Adam Beck Rd   67   2004   100   2104   41,360   85   Mains   Sir Adam Beck Rd   49   2004   100   2104   11,360   85   Mains   Sir Adam Beck Rd   49   2004   100   2104   12,437   85   Mains   Sir Adam Beck Rd   66   2004   100   2104   12,437   85   Mains   Sir Adam Beck Rd   66   2004   100   2104   13,945   85   Mains   Sir Adam Beck Rd   66   2004   100   2104   15,681   86   Mains   Sir Adam Beck Rd   40   2004   100   2104   11,801   85   Mains   Sir Adam Beck Rd   40   2004   100   2104   11,801   85   Mains   Sir Adam Beck Rd   40   2004   100   2104   8,554   85   Mains   Sir Adam Beck Rd   53   2004   100   2104   8,554   85   Mains   Sir Adam Beck Rd   15   2004   100   2104   13,315   85   Mains   Sir Adam Beck Rd   15   2004   100   2104   17,402   85   Mains   Sir Adam Beck Rd   15   2004   100   2104   17,402   85   Mains   Sir Adam Beck Rd   17   2004   100   2104   17,402   85   Mains   Sir Adam Beck Rd   33   2004   100   2104   20,672   85   Mains   Sir Adam Beck Rd   71   2004   100   2104   20,672   85   Mains   Sir Adam Beck Rd   71   2004   100   2104   20,672   85   Mains   Sir Adam Beck Rd   71   2004   100   2104   21,448   85   Mains   Sir Adam Beck Rd   74   2004   100   2104   21,448   85   Mains   Sir Adam Beck Rd   74   2004   100   2104   21,448   85   Mains   Sir Adam Beck Rd   74   2004   100   2105   21,448   85   Mains   Sir Adam Beck Rd   74   2004   100   2105   21,448   85   Mains   Sir Adam Beck Rd   74   2004   100   2105   21,448   85   Mains   Sir Adam Beck Rd   74   2004   100   2105   21,448   85   Mains   Sir Adam Beck Rd   74   2004   100   2105   21,448   85   Mains   Sir Adam Beck Rd   74   2004   100   2105   21,448   85   Mains   Sir Adam Beck Rd   74   2004   100   2105   21,448   85   44   44   44   44   44   44	876 1,027 987 353 305 465 385 290 210 376 106 430 237 508 527 228 610 85	
Mains   Sir Adam Beck Rd   70   2004   100   2104   41,817   85   85   86   86   86   86   86   86	1,027 987 353 305 465 385 290 210 376 106 430 237 508 527 228 610 85	
Mains   Sir Adam Beck Rd	987 353 305 465 385 290 210 376 106 430 237 508 527 228 610 85	
Mains   Sir Adam Beck Rd   49   2004   100   2104   14,360   85   85   85   86   86   86   86   86	305 465 385 290 210 376 106 430 237 508 527 228 610 85	
Mains         Sir Adam Beck Rd         65         2004         100         2104         18,945         85           Mains         Sir Adam Beck Rd         54         2004         100         2104         15,681         85           Mains         Sir Adam Beck Rd         40         2004         100         2104         15,681         85           Mains         Sir Adam Beck Rd         40         2004         100         2104         8,554         85           Mains         Sir Adam Beck Rd         29         2004         100         2104         8,554         85           Mains         Sir Adam Beck Rd         15         2004         100         2104         15,315         85           Mains         Sir Adam Beck Rd         16         2004         100         2104         17,492         85           Mains         Sir Adam Beck Rd         60         2004         100         2104         17,492         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         17,492         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         21,458         85 </td <td>465 385 290 210 376 106 430 237 508 527 228 610 85</td> <td></td>	465 385 290 210 376 106 430 237 508 527 228 610 85	
Mains         Sir Adam Beck Rd         66         2004         100         2104         18,945         85           Mains         Sir Adam Beck Rd         54         2004         100         2104         15,681         85           Mains         Sir Adam Beck Rd         40         2004         100         2104         8,554         85           Mains         Sir Adam Beck Rd         29         2004         100         2104         8,554         85           Mains         Sir Adam Beck Rd         53         2004         100         2104         18,315         85           Mains         Sir Adam Beck Rd         15         2004         100         2104         17,315         85           Mains         Sir Adam Beck Rd         60         2004         100         2104         17,492         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         17,492         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         20,672         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         21,748         85 </td <td>465 385 290 210 376 106 430 237 508 527 228 610 85</td> <td></td>	465 385 290 210 376 106 430 237 508 527 228 610 85	
Mains         Sir Adam Beck Rd         40         2004         100         2104         11,801         85           Mains         Sir Adam Beck Rd         29         2004         100         2104         8,554         85           Mains         Sir Adam Beck Rd         53         2004         100         2104         8,531         85           Mains         Sir Adam Beck Rd         15         2004         100         2104         4,306         85           Mains         Sir Adam Beck Rd         60         2004         100         2104         17,492         85           Mains         Sir Adam Beck Rd         60         2004         100         2104         9,641         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         20,672         85           Mains         Smith St         33         2015         100         2115         9,708         96           Mains         Smith St         89         2015         100         2115         9,708         96           Mains         Smith St         89         2015         100         2115         3,602         96           Main	290 210 376 106 430 237 508 527 228 610 85	
Mains         Sir Adam Beck Rd         29         2004         100         2104         8,554         85           Mains         Sir Adam Beck Rd         53         2004         100         2104         15,315         85           Mains         Sir Adam Beck Rd         15         2004         100         2104         4,306         85           Mains         Sir Adam Beck Rd         60         2004         100         2104         17,492         85           Mains         Sir Adam Beck Rd         33         2004         100         2104         9,641         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         20,672         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         21,458         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         21,458         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         21,458         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         21,458         85 <td>210 376 106 430 237 508 527 228 610 85</td> <td>-</td>	210 376 106 430 237 508 527 228 610 85	-
Mains         Sir Adam Beck Rd         53         2004         100         2104         15.315         85           Mains         Sir Adam Beck Rd         15         2004         100         2104         4,306         85           Mains         Sir Adam Beck Rd         60         2004         100         2104         17,492         85           Mains         Sir Adam Beck Rd         33         2004         100         2104         9,641         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         20,672         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         21,458         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         21,458         85           Mains         Smith St         32         2015         100         2115         25,922         96           Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Smith St         12         2015         100         2135         3,602         96           M	376 106 430 237 508 527 228 610 85	-
Mains         Sir Adam Beck Rd         15         2004         100         2104         4,306         85           Mains         Sir Adam Beck Rd         60         2004         100         2104         17,492         85           Mains         Sir Adam Beck Rd         33         2004         100         2104         20,672         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         20,672         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         21,458         85           Mains         Sir Adam Beck Rd         74         2004         100         2115         9,708         96           Mains         Smith St         33         2015         100         2115         9,708         96           Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Smith St         12         2015         100         2155         3,602         96           Mains	106 430 237 508 527 228 610 85	
Mains         Sir Adam Beck Rd         60         2004         100         2104         17,492         85           Mains         Sir Adam Beck Rd         33         2004         100         2104         9,641         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         22,672         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         21,458         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         21,458         85           Mains         Sir Adam Beck Rd         74         2004         100         2115         9,708         96           Mains         Smith St         12         2015         100         2115         25,922         96           Mains         Smith St         12         2015         100         2115         25,922         96           Mains         Somerset St         59         1953         100         2053         17,060         34           Mains         Somerset St         50         1953         100         2053         14,245         34           M	430 237 508 527 228 610 85	
Mains         Sir Adam Beck Rd         33         2004         100         2104         9,641         85           Mains         Sir Adam Beck Rd         71         2004         100         2104         20,672         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         20,672         85           Mains         Smith St         33         2015         100         2115         9,708         96           Mains         Smith St         12         2015         100         2115         25,922         96           Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Somerset St         59         1953         100         2053         14,589         34           Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         64         1946         100         2046         18,705         27           Mains         S	237 508 527 228 610 85 696	-
Mains         Sir Adam Beck Rd         71         2004         100         2104         20,672         85           Mains         Sir Adam Beck Rd         74         2004         100         2104         21,458         85           Mains         Smith St         33         2015         100         2115         9,708         96           Mains         Smith St         89         2015         100         2115         25,922         96           Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Somerset St         59         1953         100         2053         17,060         34           Mains         Somerset St         50         1953         100         2053         14,289         34           Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         64         1946         100         2046         18,705         27           Mains         Somer	508 527 228 610 85 696	-
Mains         Sir Adam Beck Rd         74         2004         100         2104         21,458         85           Mains         Smith St         33         2015         100         2115         9,708         96           Mains         Smith St         89         2015         100         2115         9,708         96           Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Somerset St         59         1953         100         2053         17,060         34           Mains         Somerset St         50         1953         100         2053         14,589         34           Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         49         1953         100         2063         14,245         34           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Sorung	527 228 610 85 696	
Mains         Smith St         33         2015         100         2115         9,708         96           Mains         Smith St         89         2015         100         2115         25,922         96           Mains         Smith St         12         2015         100         2115         25,922         96           Mains         Smith St         12         2015         100         2115         25,922         96           Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Somerset St         59         1953         100         2053         14,599         34           Mains         Somerset St         49         1953         100         2053         14,599         34           Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         64         1946         100         2046         18,705         27           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Sprung Ct	228 610 85 696	l - <sup>-</sup>
Mains         Smith St         89         2015         100         2115         25,922         96           Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Somerset St         59         1953         100         2053         17,060         34           Mains         Somerset St         50         1953         100         2053         14,589         34           Mains         Somerset St         49         1953         100         2053         14,589         34           Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         64         1946         100         2046         18,705         27           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Sprung Ct         23         1987         100         2089         18,881         70           Mains         Sprung Ct	610 85 696	+
Mains         Smith St         12         2015         100         2115         3,602         96           Mains         Somerset St         59         1953         100         2053         17,060         34           Mains         Somerset St         59         1953         100         2053         14,589         34           Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         49         1964         100         2046         18,705         27           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         65         1989         100         2089         18,881         70           Mains         Sprung Ct         23         1987         100         2087         6,560         68           Mains         St. Dav	85 696	-
Mains         Somerset St         59         1953         100         2053         17,060         34           Mains         Somerset St         50         1953         100         2053         14,589         34           Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         64         1946         100         2046         18,705         27           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         65         1989         100         2089         18,881         70           Mains         Sprung Ct         51         1987         100         2087         6,560         68           Mains         Sprung Ct         81         1987         100         2087         23,622         68           Mains         St. D	696	-
Mains         Somerset St         50         1953         100         2053         14,589         34           Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         49         1953         100         2046         18,705         27           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         65         1989         100         2087         6,560         68           Mains         Sprung Ct         23         1987         100         2087         14,734         68           Mains         Sprung Ct         81         1987         100         2087         23,622         68           Mains         St. David St         84         1979         100         2079         24,592         60           Mains         St.		
Mains         Somerset St         49         1953         100         2053         14,245         34           Mains         Somerset St         64         1946         100         2046         18,705         27           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         65         1989         100         2089         18,881         70           Mains         Sprung Ct         23         1987         100         2087         6,560         68           Mains         Sprung Ct         51         1987         100         2087         14,734         68           Mains         Sprung Ct         81         1987         100         2087         23,622         68           Mains         St. David St         84         1979         100         2079         24,592         60           Mains         St. David St         88         1979         100         2079         25,591         60           Mains         St. David St         95         1979         100         2079         27,688         60           Mains         St.		-
Mains         Somerset St         64         1946         100         2046         18,705         27           Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         65         1989         100         2089         18,881         70           Mains         Sprung Ct         23         1987         100         2087         6,560         68           Mains         Sprung Ct         51         1987         100         2087         14,734         68           Mains         Sprung Ct         81         1987         100         2087         23,622         68           Mains         Sprung Ct         81         1987         100         2087         24,592         60           Mains         St. David St         84         1979         100         2079         24,592         60           Mains         St. David St         88         1979         100         2079         25,591         60           Mains         St. David St         95         1979         100         2079         25,669         60           Mains         St. Da	596	-
Mains         Somerset St         49         2017         100         2117         14,245         98           Mains         Somerset St         65         1989         100         2089         18,881         70           Mains         Sprung Ct         23         1987         100         2087         6,560         68           Mains         Sprung Ct         51         1987         100         2087         14,734         68           Mains         Sprung Ct         81         1987         100         2087         23,622         68           Mains         St. David St         84         1979         100         2079         24,592         60           Mains         St. David St         88         1979         100         2079         25,591         60           Mains         St. David St         87         1979         100         2079         25,469         60           Mains         St. David St         95         1979         100         2079         27,688         60           Mains         St. David St         91         1979         100         2079         26,613         60           Mains         St	581	-
Mains         Somerset St         65         1989         100         2089         18,881         70           Mains         Sprung Ct         23         1987         100         2087         6,560         68           Mains         Sprung Ct         51         1987         100         2087         14,734         68           Mains         Sprung Ct         81         1987         100         2087         23,622         68           Mains         St. David St         84         1979         100         2079         24,592         60           Mains         St. David St         88         1979         100         2079         25,591         60           Mains         St. David St         87         1979         100         2079         25,469         60           Mains         St. David St         95         1979         100         2079         27,688         60           Mains         St. David St         91         1979         100         2079         26,613         60           Mains         St. David St         99         1979         100         2079         28,814         60           Mains         S	903	-
Mains         Sprung Ct         23         1987         100         2087         6,560         68           Mains         Sprung Ct         51         1987         100         2087         14,734         68           Mains         Sprung Ct         81         1987         100         2087         23,622         68           Mains         St. David St         84         1979         100         2079         24,592         60           Mains         St. David St         88         1979         100         2079         25,591         60           Mains         St. David St         87         1979         100         2079         25,469         60           Mains         St. David St         95         1979         100         2079         27,688         60           Mains         St. David St         91         1979         100         2079         26,613         60           Mains         St. David St         99         1979         100         2079         28,814         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains	333	-
Mains         Sprung Ct         51         1987         100         2087         14,734         68           Mains         Sprung Ct         81         1987         100         2087         23,622         68           Mains         St. David St         84         1979         100         2079         24,592         60           Mains         St. David St         88         1979         100         2079         25,591         60           Mains         St. David St         87         1979         100         2079         25,469         60           Mains         St. David St         95         1979         100         2079         27,688         60           Mains         St. David St         91         1979         100         2079         26,613         60           Mains         St. David St         99         1979         100         2079         28,814         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains	504	-
Mains         Sprung Ct         81         1987         100         2087         23,622         68           Mains         St. David St         84         1979         100         2079         24,592         60           Mains         St. David St         88         1979         100         2079         25,591         60           Mains         St. David St         87         1979         100         2079         25,469         60           Mains         St. David St         95         1979         100         2079         27,688         60           Mains         St. David St         91         1979         100         2079         26,613         60           Mains         St. David St         99         1979         100         2079         28,814         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains         St. David St         60         2017         100         2117         17,428         98           Mains	177	-
Mains         St. David St         84         1979         100         2079         24,592         60           Mains         St. David St         88         1979         100         2079         25,591         60           Mains         St. David St         87         1979         100         2079         25,469         60           Mains         St. David St         95         1979         100         2079         27,688         60           Mains         St. David St         91         1979         100         2079         26,613         60           Mains         St. David St         99         1979         100         2079         28,814         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains         St. David St         60         2017         100         2117         17,428         98           Mains         St. David St         36         2017         100         2117         10,622         98           Mains         St. David St         60         1922         100         2022         17,428         3         suggested for 10 yet <td>398</td> <td></td>	398	
Mains         St. David St         88         1979         100         2079         25,591         60           Mains         St. David St         87         1979         100         2079         25,469         60           Mains         St. David St         95         1979         100         2079         27,688         60           Mains         St. David St         91         1979         100         2079         26,613         60           Mains         St. David St         99         1979         100         2079         28,814         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains         St. David St         60         2017         100         2117         17,428         98           Mains         St. David St         36         2017         100         2117         10,622         98           Mains         St. David St         60         1922         100         2022         17,428         3         suggested for 10 yet           Mains         St. David St         15         1922         100         2022         4,350         3         <	639	-
Mains         St. David St         87         1979         100         2079         25,469         60           Mains         St. David St         95         1979         100         2079         27,688         60           Mains         St. David St         91         1979         100         2079         26,613         60           Mains         St. David St         99         1979         100         2079         28,814         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains         St. David St         60         2017         100         2117         17,428         98           Mains         St. David St         36         2017         100         2117         10,622         98           Mains         St. David St         60         1922         100         2022         17,428         3         suggested for 10 yet           Mains         St. David St         36         1922         100         2022         10,622         3         suggested for 10 yet           Mains         St. David St         15         1922         100         2022         4,	707	-
Mains         St. David St         95         1979         100         2079         27,688         60           Mains         St. David St         91         1979         100         2079         26,613         60           Mains         St. David St         99         1979         100         2079         28,814         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains         St. David St         60         2017         100         2117         17,428         98           Mains         St. David St         36         2017         100         2117         10,622         98           Mains         St. David St         60         1922         100         2022         17,428         3 suggested for 10 ye           Mains         St. David St         36         1922         100         2022         10,622         3 suggested for 10 ye           Mains         St. David St         15         1922         100         2022         4,350         3 suggested for 10 ye           Mains         St. David St         15         1922         100         2022         4,412         <	736	
Mains         St. David St         91         1979         100         2079         26,613         60           Mains         St. David St         99         1979         100         2079         28,814         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains         St. David St         60         2017         100         2117         17,428         98           Mains         St. David St         36         2017         100         2117         10,622         98           Mains         St. David St         60         1922         100         2022         17,428         3         suggested for 10 yet           Mains         St. David St         36         1922         100         2022         10,622         3         suggested for 10 yet           Mains         St. David St         15         1922         100         2022         4,350         3         suggested for 10 yet           Mains         St. David St         15         1922         100         2022         4,412         3         suggested for 10 yet	733	1
Mains         St. David St         99         1979         100         2079         28,814         60           Mains         St. David St         88         1979         100         2079         25,562         60           Mains         St. David St         60         2017         100         2117         17,428         98           Mains         St. David St         36         2017         100         2117         10,622         98           Mains         St. David St         60         1922         100         2022         17,428         3         suggested for 10 yet           Mains         St. David St         36         1922         100         2022         10,622         3         suggested for 10 yet           Mains         St. David St         15         1922         100         2022         4,350         3         suggested for 10 yet           Mains         St. David St         15         1922         100         2022         4,412         3         suggested for 10 yet	797	
Mains         St. David St         88         1979         100         2079         25,562         60           Mains         St. David St         60         2017         100         2117         17,428         98           Mains         St. David St         36         2017         100         2117         10,622         98           Mains         St. David St         60         1922         100         2022         17,428         3         suggested for 10 yet           Mains         St. David St         36         1922         100         2022         10,622         3         suggested for 10 yet           Mains         St. David St         15         1922         100         2022         4,350         3         suggested for 10 yet           Mains         St. David St         15         1922         100         2022         4,412         3         suggested for 10 yet	766	
Mains         St. David St         60         2017         100         2117         17,428         98           Mains         St. David St         36         2017         100         2117         10,622         98           Mains         St. David St         60         1922         100         2022         17,428         3         suggested for 10 ye           Mains         St. David St         36         1922         100         2022         10,622         3         suggested for 10 ye           Mains         St. David St         15         1922         100         2022         4,350         3         suggested for 10 ye           Mains         St. David St         15         1922         100         2022         4,412         3         suggested for 10 ye	829	
Mains         St. David St         36         2017         100         2117         10,622         98           Mains         St. David St         60         1922         100         2022         17,428         3 suggested for 10 ye           Mains         St. David St         36         1922         100         2022         10,622         3 suggested for 10 ye           Mains         St. David St         15         1922         100         2022         4,350         3 suggested for 10 ye           Mains         St. David St         15         1922         100         2022         4,412         3 suggested for 10 ye	735	-
Mains         St. David St         60         1922         100         2022         17,428         3         suggested for 10 year           Mains         St. David St         36         1922         100         2022         10,622         3         suggested for 10 year           Mains         St. David St         15         1922         100         2022         4,350         3         suggested for 10 year           Mains         St. David St         15         1922         100         2022         4,412         3         suggested for 10 year	407	-
Mains         St. David St         36         1922         100         2022         10,622         3         suggested for 10 ye           Mains         St. David St         15         1922         100         2022         4,350         3         suggested for 10 ye           Mains         St. David St         15         1922         100         2022         4,412         3         suggested for 10 ye	248	
Mains         St. David St         15         1922         100         2022         4,350         3         suggested for 10 years           Mains         St. David St         15         1922         100         2022         4,412         3         suggested for 10 years		17,428
Mains St. David St 15 1922 100 2022 4,412 3 suggested for 10 ye	•	10,622 4,350
	•	4,330
Mains   St. David St   61   1922   100   2022   17,880   3   suggested for 10 years	ear capital forecast	17,880
Mains St. David St 1 1922 100 2022 374 3 suggested for 10 years.		374
Mains St. David St 4 2006 100 2106 1,294 87	32 32	1
Mains St. Patrick St 49 1965 100 2065 17,512 46	586	
Mains St. Patrick St 21 1965 100 2065 7,293 46	244	_
Mains St. Patrick St 41 1912 100 2019 14,467 0 suggested for 10 years		14,467
Mains St. Patrick St 78 1921 100 2021 106,764 2 suggested for 10 ye		106,764
Mains St. Patrick St 74 1912 100 2019 32,008 0 suggested for 10 years		32,008
Mains St. Patrick St 37 1912 100 2019 16,009 0 suggested for 10 years		16,009
Mains St. Patrick St 16 2006 100 2106 22,329 87	544	-
Mains St. Patrick St 23 2005 100 2105 42,266 86	1,034	-
Mains St. Patrick St 13 2006 100 2106 17,820 87	434	_
Mains St. Patrick St 64 2006 100 2106 116,967 87	2,848	
Mains St. Patrick St 78 2005 100 2105 143,962 86	3,520	
Mains St. Patrick St 7 2005 100 2105 13,548 86	331	-
Mains St. Patrick St 23 1989 100 2089 6,296 70	168	-
Mains St. Patrick St 6 2006 100 2106 2,515 87	61	
Mains St. Patrick St 11 2010 100 2110 3,289 91	79	-
Mains St. Patrick St 26 2010 100 2110 7,534 91	180	-
Mains St. Patrick St 12 2010 100 2110 3,432 91	82	-
Mains St. Patrick St 24 2010 100 2110 6,983 91	167	-
Mains         St. Patrick St         40         2010         100         2110         12,181         91		-
Mains         St. Vincent St N         84         1930         100         2030         28,888         11	292	-
Mains         St. Vincent St N         31         1929         100         2029         10,966         10         suggested for 10 years	292 2,952	10,966
Mains         St. Vincent St N         73         1930         100         2030         25,127         11	2,952	-
Mains         St. Vincent St N         122         1930         100         2030         43,325         11	2,952	-
Mains         St. Vincent St N         98         1930         100         2030         34,784         11	2,952 ear capital forecast	
Mains         St. Vincent St N         11         1930         100         2030         3,848         11	2,952 ear capital forecast 2,567	-
Mains St. Vincent St N 68 1992 100 2092 20,712 73	2,952 ear capital forecast 2,567 4,427	
Mains         St. Vincent St N         94         1992         100         2092         28,437         73	2,952 ear capital forecast 2,567 4,427 3,554	-
Mains         St. Vincent St N         41         1992         100         2092         12,511         73	2,952 ear capital forecast 2,567 4,427 3,554 393	-
Mains         St. Vincent St N         20         2005         100         2105         6,712         86	2,952 ear capital forecast 2,567 4,427 3,554 393 542	
Mains         St. Vincent St N         11         2009         100         2109         3,781         90	2,952 ear capital forecast 2,567 4,427 3,554 393 542 744	
Mains St. Vincent St S 11 1971 100 2071 3,320 52	2,952 ear capital forecast 2,567 4,427 3,554 393 542 744 327	



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	St. Vincent St S	35	1974	100	2074	10,335	55	312	-
Mains	St. Vincent St S	89	1971	100	2071	25,886	52	805	-
Mains	St. Vincent St S	29	1974	100	2074	8,389	55	253	-
Mains	St. Vincent St S	28	1971	100	2071	8,279	52	258	-
Mains	St. Vincent St S	8	1953	100	2053	2,688	34	110	-
Mains	St. Vincent St S	76	1913	100	2019	23,005	0	suggested for 10 year capital forecast	23,005
Mains	St. Vincent St S	93	1953	100	2053	33,170	34	1,354	-
Mains	St. Vincent St S	98	1953	100	2053	34,694	34	1,416	-
Mains	St. Vincent St S	103	1959	100	2059	35,387	40	1,294	-
Mains	St. Vincent St S	109	1918		2019	33,029	0	suggested for 10 year capital forecast	33,029
Mains	St. Vincent St S	130	1918		2019	39,423	0	suggested for 10 year capital forecast	39,423
Mains	St. Vincent St S	107	1918		2019	32,529	0	suggested for 10 year capital forecast	32,529
Mains	St. Vincent St S	15	1918		2019	4,486	0	suggested for 10 year capital forecast	4,486
Mains	St. Vincent St S	5	1913	1	2019	1,655	0	suggested for 10 year capital forecast	1,655
Mains	St. Vincent St S	32	2004	100	2104	57,902	85	1,422	-
Mains	St. Vincent St S	15	2004	100	2104	26,780	85	658	-
Mains	St. Vincent St S	32	1996		2096	9,279	77	237	-
Mains	St. Vincent St S	30	2004	100	2104	8,608	85	211	-
Mains	St. Vincent St S	8	2004	100	2104	2,189 2,140	85	54	-
Mains	St. Vincent St S	7	2004	100	2104	7,073	85 85	53	-
Mains Mains	St. Vincent St S	24	2004	100	2104	7,073 13,551	85 85	174	-
Mains Mains	St. Vincent St S	46	2004 2004	100	2104	3,244	85 85	333 80	-
Mains Mains	St. Vincent St S St. Vincent St S	9		100 100	2104 2082	2,558	63		-
Mains	St. Vincent St S	110		100	2082	32,033	93	72	
Mains	St. Vincent St S St. Vincent St S	7	1966	100	2066	2,055	93 47	68	-
Mains	St. Vincent St S	100	1965	100	2065	34,202	46	1,144	-
Mains	St. Vincent St S	100	1965	100	2065	34,110	46	1,141	_
Mains	St. Vincent St S	69	1966	100	2066	21,088	47	696	-
Mains	St. Vincent St S	74	1966	100	2066	22,637	47	747	-
Mains	St. Vincent St S	50			2065	17,021	46	569	-
Mains	Strachan St	79	2017	100	2117	24,141	98	564	_
Mains	Strachan St	81	2017	100	2117	24,624	98	575	-
Mains	Strachan St	63	2017	100	2117	19,193	98	448	-
Mains	Strachan St	81	1955		2055	24,624	36	966	-
Mains	Strachan St	63	1955	100	2055	19,193	36	753	-
Mains	Strachan St	79	1955	100	2055	24,141	36	947	-
Mains	Strachan St	17	1955	100	2055	5,265	36	207	-
Mains	Strachan St	129	1914	100	2019	39,240	0	suggested for 10 year capital forecast	39,240
Mains	Strachan St	133	1914	100	2019	40,468	0	suggested for 10 year capital forecast	40,468
Mains	Strachan St	15	1914	100	2019	4,634	0	suggested for 10 year capital forecast	4,634
Mains	Strachan St	117	1914	100	2019	35,715	0	suggested for 10 year capital forecast	35,715
Mains	Strachan St	18	2009	100	2109	5,255	90	126	-
Mains	Strachan St	15	2009	100	2109	4,233	90	102	-
Mains	Strachan St	89	2014	100	2114	25,924	95	612	-
Mains	Strachan St	65	2014	100	2114	19,017	95	449	
Mains	Strachan St	55	2014	100	2114	16,084	95	380	
Mains	Strachan St	89	2014	100	2114	25,827	95	609	-
Mains	Strachan St	82	2014	100	2114	23,762	95	561	-
Mains	Stratford St	112	1897	100	2019	34,055	0	suggested for 10 year capital forecast	34,055
Mains	Stratford St	120		100	2019	35,044 19,765	0	suggested for 10 year capital forecast	35,044
Mains	Sutter St	68	1988	1	2088	17,788	69	531	-
Mains	Sutter St	61	1988		2088	19,627	69	478	-
Mains Mains	Sutter St T.J. Dolan Dr	67 74	1988 1907	100 100	2088 2019	32,851	69 0	527 suggested for 10 year capital forecast	32,851
Mains		92	1907	100	2019	40,968	0		•
Mains	T.J. Dolan Dr Taylor St	92 87	2002		2102	49,687	83	suggested for 10 year capital forecast 1,232	40,968
Mains	Taylor St	5	1964	100	2064	2,816	45	95	_
Mains	Taylor St	87	1964	100	2064	25,358	45	860	_
Mains	Taylor St	20	2018		2118	5,801	99	135	-
Mains	Taylor St	94	1917	100	2019	28,455	0	suggested for 10 year capital forecast	28,455
Mains	Taylor St	20	1917	100	2019	5,801	0	suggested for 10 year capital forecast	5,801
Mains	Taylor St	95	1917	100	2019	28,942	0	suggested for 10 year capital forecast	28,942
Mains	Taylor St	82	1915		2019	25,043	0	suggested for 10 year capital forecast	25,043
Mains	Taylor St	10		100	2064	3,050	45	103	-
Mains	Taylor St	10		100	2087	3,018	68	82	_
Mains	Thomas St	13	2009		2109	3,844	90	92	-
Mains	Thomas St	15	2010	100	2110	4,304	91	103	-
Mains	Thomas St	23			2110	6,599	91	158	-
Mains	Thomas St	71	2010		2110	20,754	91	497	-
Mains	Thomas St	89	2010	100	2110	25,838	91	619	-
Mains	Thomas St	2	2010	100	2110	444	91	11	-
Mains	Trinity St	13	1977	100	2077	4,038	58	118	-
Mains	Trinity St	75	2005	100	2105	22,786	86	557	-
	Trinity St	79	2005	100	2105	24,076	86	589	-
Mains			2005	100	2105	22,500	86	550	-
Mains Mains	Trinity St	74	2003						+
Mains Mains	Trinity St	117	1921	100	2021	35,532	2	suggested for 10 year capital forecast	35,532
Mains Mains Mains	Trinity St Trinity St	117 111	1921 1921	100 100	2021 2021	35,532 33,619	2 2	suggested for 10 year capital forecast	33,619
Mains Mains	Trinity St	117	1921	100 100 100	2021	35,532 33,619 25,180	2		



				Sa	nitary Sev	/ers			
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Tweedsmuir PI	71	1968	100	2068	20,815	49	670	-
Mains	Tweedsmuir PI	61	1968	100	2068	1	49	577	-
Mains	Vanevery Way	66		100	2104	19,091	85	469	-
Mains	Vanevery Way	66	2004	100	2104	19,265	85	473	-
Mains	Vanevery Way	66	2004	100	2104	19,091	85	469	•
Mains	Vanevery Way	66	2004	100	2104	19,237	85	473	-
Mains	Vanevery Way	39	2004	100	2104	11,368	85	279	-
Mains	Vanevery Way	66	2004	100	2104	19,312		474	-
Mains	Vanevery Way	13		100	2104	3,846		94	-
Mains	Vanevery Way	74	2004	100	2104	21,595		530	-
Mains	Vanevery Way	14	2004	100	2104	3,939		97	-
Mains	Verona Pk	4		100	2064	1,297	45	44	-
Mains	Verona Pk	4		100	2064	1,264	45	43	-
Mains	Verona Pk	4	1990	100	2090	1,353 20,254		36	-
Mains	Verona Pk	67	1990	100	2090	16,224	71	537	40.004
Mains	Veterans Dr	53		100	2019	29,804	0	suggested for 10 year capital forecast	16,224
Mains	Veterans Dr	98		100	2019	29,804	0	suggested for 10 year capital forecast	29,804
Mains	Veterans Dr	71	1897	100	2019	2,463		suggested for 10 year capital forecast	21,570
Mains	Victoria St	8		100	2079	20,627		71	20,627
Mains Mains	Victoria St Victoria St	68 116		100 100	2019 2019	35,241	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	20,627 35,241
Mains	Victoria St	25		100	2019	8,539	l	suggested for 10 year capital forecast	8,539
Mains	Viola Ct	78		100	2019	22,832		suggested for 10 year capital forecast	- 8,539
Mains	Vivian Line 37	86		100	2106	37,159		905	-
Mains	Vivian Line 37	50		100	2106	21,457	87	522	-
Mains	Vivian Line 37	86		100	2106	36,839	1	897	-
Mains	Vivian Line 37	57	2006	100	2106	24,688	Ű.	601	-
Mains	Vivian Line 37	26		100	2106	9,225		225	-
Mains	Vivian Line 37	85		100	2106	36,623		892	-
Mains	Vivian Line 37	57	2006	100	2106	24,473	87	596	-
Mains	Vivian Line 37	89	2006	100	2106	25,796	87	628	-
Mains	Vivian Line 37	52	2006	100	2106	15,201	87	370	-
Mains	Vivian Line 37	59	2006	100	2106	17,062	87	415	-
Mains	Vivian Line 37	28	2006	100	2106	8,271	87	201	-
Mains	Vivian Line 37	60	2006	100	2106		87	422	-
Mains	Vivian Line 37	88	2006	100	2106		87	624	-
Mains	Vivian Line 37	88			2106			624	-
Mains	Vivian Line 37	45			2114	15,912		375	-
Mains	Vivian Line 37	42			2114			354	-
Mains	Vivian Line 37	89			2114			743	-
Mains	Vivian Line 37	85			2114			708	-
Mains	Vivian Line 37	91	2014	100	2114			759	-
Mains	Vivian Line 37	94 87	2014 2014	100 100	2114 2114	1	95 95	644 601	-
Mains Mains	Vivian Line 37 Vivian Line 37	92			2114			630	-
Mains	Waddell St	72		100	2052	20,865		870	-
Mains	Waddell St	74		100	2052	21,438		894	-
Mains	Waddell St	109		100	2052	31,735		1,323	-
Mains	Waddell St	72		100	2117	20,865		487	-
Mains	Waddell St	52	1987	100	2087	15,680		424	-
Mains	Waddell St	30		100	2087	8,995		243	-
Mains	Waddell St	71	1987	100	2087	21,488		581	-
Mains	Waldie'S Lnwy	45	1921	100	2021	12,622	2	suggested for 10 year capital forecast	12,622
Mains	Waldie'S Lnwy	20	1921	100	2021	5,460	2	suggested for 10 year capital forecast	5,460
Mains	Walsh Cres	43		100	2068			404	-
Mains	Walsh Cres	56		100	2096			418	-
Mains	Walsh Cres	56		100	2096		1	417	-
Mains	Walsh Cres	19		100	2096			138	-
Mains	Walsh Cres	66		100	2096			494	-
Mains	Walsh Cres	48		100	2096			361	-
Mains	Walsh Cres	17	1996	100	2096		1	127	-
Mains	Walsh Cres	29		100	2096		1	217	-
Mains	Walsh Cres	18		100	2096	6,373		135	-
Mains	Walsh Cres	22	1996	100	2096	4,593	ł	163	-
Mains	Walsh Cres Walsh Cres	16 27	1996 1996	100 100	2096 2096	-	1	117 202	-
Mains Mains	Warwick Rd	78		100	2096	22,835	l	952	-
Mains	Warwick Rd	78		100	2052	22,743		952	-
Mains	Warwick Rd	40		100	2052	11,798		492	
Mains	Warwick Rd	86						1,096	
Mains	Warwick Rd	87				25,296	<b>†</b>	1,055	-
Mains	Water St	13					1	113	-
Mains	Water St	2						16	
Mains	Water St	92					l	791	-
Mains	Water St	151	1924			43,972	1	suggested for 10 year capital forecast	43,972
Mains	Water St	41	1906				1	suggested for 10 year capital forecast	12,386
Mains	Water St	95					0	suggested for 10 year capital forecast	29,001
Mains	Water St	68					0	suggested for 10 year capital forecast	20,704
Mains	Water St	91	1924	100	2024	27,745	5	suggested for 10 year capital forecast	27,745
Mains	Water St	102	1913	100	2019	30,975	0	suggested for 10 year capital forecast	30,975



					y of Stratf	ore			
Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Water St	60	1906	100	2019	18,256	0	suggested for 10 year capital forecast	18,256
Mains	Water St	88	1906	100	2019	26,802	0	suggested for 10 year capital forecast	26,802
Mains	Water St	42		100	2019	12,924	0	suggested for 10 year capital forecast	12,924
Mains	Water St	49	1906 1984	100	2019 2084	14,823 3,250	,	suggested for 10 year capital forecast 90	14,823
Mains Mains	Water St Water St	97	1	100 100	2084	29,570		817	-
Mains	Water St	66		100	2084	20,224	65	559	-
Mains	Water St	9	1983	100	2083	2,728	-	76	-
Mains	Water St	79		100	2084	23,973		662	
Mains Mains	Waterloo St N Waterloo St N	5 44		100 100	2106 2106	1,535 12,701	87 87	37	
Mains	Waterloo St N	100		100	2071	30,426		947	-
Mains	Waterloo St N	100		100	2071	30,425		946	-
Mains	Waterloo St S	33		100	2019	10,098		suggested for 10 year capital forecast	10,098
Mains	Waterloo St S	8		100	2050	2,142		93	
Mains Mains	Waterloo St S Waterloo St S	102 45		100 100	2019 2019	31,131 13,584	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	31,131 13,584
Mains	Waterloo St S	43		100	2013	58,927	2	suggested for 10 year capital forecast	58,927
Mains	Waterloo St S	50	1	100	2019	15,293		suggested for 10 year capital forecast	15,293
Mains	Waterloo St S	34		100	2050	9,374	31	409	
Mains	Waterloo St S	31	1896	100	2019	11,053 5,224	0	suggested for 10 year capital forecast	11,053
Mains Mains	Waterloo St S Waterloo St S	17 28		100 100	2019 2051	5,224 8,134	0 32	suggested for 10 year capital forecast 347	5,224
Mains	Waterloo St S	8		100	2051	2,189	1	93	
Mains	Waterloo St S	73		100	2051	21,219		904	-
Mains	Waterloo St S	73		100	2020	20,290	1	suggested for 10 year capital forecast	20,290
Mains	Waterloo St S	12		100	2094	3,271 24,306	75	85	-
Mains Mains	Waterloo St S Waterloo St S	83 10		100 100	2087 2094	24,306	68 75	657 69	-
Mains	Waterloo St S	42		100	2087	12,138		328	
Mains	Well St	123	1915	100	2019	37,537	0	suggested for 10 year capital forecast	37,537
Mains	Well St	104		100	2019	31,480		suggested for 10 year capital forecast	31,480
Mains	Well St	102		100	2020	29,790 29,518		suggested for 10 year capital forecast	29,790
Mains Mains	Well St Wellington St	97 115		100 100	2020 2117	35,063		suggested for 10 year capital forecast 819	29,518
Mains	Wellington St	110		100	2117	33,369		779	
Mains	Wellington St	122	1927	100	2027	37,190		suggested for 10 year capital forecast	37,190
Mains	Wellington St	11	1915	100	2019	3,443	<u> </u>	suggested for 10 year capital forecast	3,443
Mains	Wellington St	36 115		100 100	2019 2019	10,046 35,063	_	suggested for 10 year capital forecast	10,046
Mains Mains	Wellington St Wellington St	7		100	2019	3,745	_	suggested for 10 year capital forecast suggested for 10 year capital forecast	35,063 3,745
Mains	Wellington St	110		100	2019	33,369	_	suggested for 10 year capital forecast	33,369
Mains	Wellington St	69	2006	100	2106	66,580	87	1,621	-
Mains	Wellington St	4		100	2106	3,821	87	93	
Mains Mains	Wellington St Wellington St	89		100 100	2106 2107	85,247 7,137		2,076 173	
Mains	Wellington St	12		100	2107	11,083		270	
Mains	Wellington St	21	2006	100	2106	19,874		484	-
Mains	Wellington St	92		100	2019	31,441	0	suggested for 10 year capital forecast	31,441
Mains	Wellington St	33		100	2019	11,178	_	suggested for 10 year capital forecast	11,178
Mains Mains	Wellington St West Gore St	88 188		100 100	2019 2117	29,946 180,832	_	suggested for 10 year capital forecast 4,223	29,946
Mains	West Gore St	108		100	2117	103,957		2,428	
Mains	West Gore St	119		100	2117	34,813		813	
Mains	West Gore St	90		100	2118	26,098		607	-
Mains	West Gore St	31	2018	100	2118	8,902		207	-
Mains	West Gore St	180 161	1934 1934	100 100	2034 2034	173,449 155,383		13,499 12,093	
Mains Mains	West Gore St West Gore St	92		100	2034	88,898		6,919	
Mains	West Gore St	188		100	2034	180,832		14,073	
Mains	West Gore St	108	1	100	2034	103,957	15	8,091	-
Mains	West Gore St	85		100	2034	81,980		6,380	
Mains Mains	West Gore St West Gore St	18 85		100 100	2022 2022	5,435 28,913		suggested for 10 year capital forecast suggested for 10 year capital forecast	5,435 28,913
Mains	West Gore St	22		100	2022	6,675		suggested for 10 year capital forecast	6,675
Mains	West Gore St	90		100	2054	26,098	35	1,044	-
Mains	West Gore St	119		100	2054	34,813		1,393	-
Mains	West Gore St	12		100	2049	4,002 8,902		179	
Mains Mains	West Gore St West Gore St	31 147		100 100	2054 2024	8,902 44,791	35 5	356 suggested for 10 year capital forecast	- 44,791
Mains	West Gore St	56		100	2107	53,732		1,303	
Mains	West Gore St	13		100	2106	12,952	87	315	
Mains	West Gore St	56		100	2107	53,556		1,298	-
Mains	West Gore St	80		100	2087	23,213		627	-
Mains Mains	West Gore St West Gore St	81 14	1987 2007	100 100	2087 2107	23,610 4,918		638 119	
Mains	West Gore St	26		100	2019	8,961	0	suggested for 10 year capital forecast	8,961
Mains	West Gore St	109		100	2019	37,141	0	suggested for 10 year capital forecast	37,141
Mains	West Gore St	11	1914	100	2019	3,657		suggested for 10 year capital forecast	3,657
Mains	West Gore St	102	1915	100	2019	31,008	0	suggested for 10 year capital forecast	31,008



Asset Street Length Year Estimated (m) Installed Life Street (m) Installed Life Year Costs Replacement Year Costs						y of Stratfo nitary Sew				
Maries   Verse Gen St   97   1964   100   2008   24   24   24   3   3   3   3   3   3   3   3   3	Asset	Street			Estimated	Replace ment	Total Main Replacement		Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Marrie   Marce Game S	Mains	West Gore St	113	1915	100	2019	34,438	0	suggested for 10 year capital forecast	34,438
Part   Versi Goro St	Mains	West Gore St	97	1964	100	2064	29,562	45	1,002	-
Maries   Versi Score   77   1964   100   2001   2,2500   1   1   1   1   1   1   1   1   1	Mains	West Gore St	110	1914	100	2019	39,090	0	suggested for 10 year capital forecast	39,090
Marie   Verein Core   Marie   196   209   1977   100   2091   1978   1978   1979   1979   2097   2098   1979   1979   1979   2098   1977   1979   2097   2098   1979   1979   1979   1979   2098   2	Mains	West Gore St	97	1914	100	2019	34,389	0	suggested for 10 year capital forecast	34,389
Marie   Wysie S	Mains	West Gore St	77	1914	100	2019	23,360	0	suggested for 10 year capital forecast	23,360
Description   Security   Securi	Mains	West Gore St	44	1914	100	2019	13,450	0	suggested for 10 year capital forecast	13,450
Marie   White St	Mains	White St	32	1977	100	2077	-		289	-
Maries	Mains	White St	94	1977	100	2077			835	-
Marie   Whiteles St	Mains				1					-
Marie							-, -	Ü,		-
Marie   Wheles 61										-
Maries   Willeach St   94   2016   100   2116   2016   107   611								0.		-
Merine Writecke 5: 90 2016 100 2116 2013 37 97 91 91 91 91 91 91 91 91 91 91 91 91 91					1		-,	01		-
Marie					1			ű.		-
Maries   Wheeleach St   90   1910   100   2019   30,120   0   suggested for 10 year capital forecast										-
Marie Whyte Ace								<b>.</b>		30,123
Marie   Wyles Ave							-	-		41,249
Marie		† <i>*</i>			1			_		41,243
Marie   William 91		<b>'</b>			1			- 55		-
Marie No.   Williams St							-			-
Mains   Williams St										-
Manie Nilliams St										-
Mains   William St   88   9122   100   2029   37,588   10   suggested for 10 year capital forcests   Mains   William St   37   1202   100   2029   12,980   10   suggested for 10 year capital forcests   Mains   William St   48   1292   100   2029   12,980   10   suggested for 10 year capital forcests   Mains   William St   48   1292   100   2029   30,112   10   suggested for 10 year capital forcests   Mains   William St   48   1292   100   2029   30,112   10   suggested for 10 year capital forcests   Mains   William St   49   1292   100   2029   30,112   10   suggested for 10 year capital forcests   Mains   William St   49   1292   100   2029   30,112   10   suggested for 10 year capital forcests   Mains   William St   49   1292   100   2029   30,112   10   suggested for 10 year capital forcests   Mains   William St   40   20   1292   100   2029   30,112   10   suggested for 10 year capital forcests   Mains   William St   40   20   1292   100   2029   31,863   10   suggested for 10 year capital forcests   Mains   William St   57   2005   100   2020   31,863   10   suggested for 10 year capital forcests   Mains   William St   57   2005   100   2006   100   2006   31,863   10   suggested for 10 year capital forcests   Mains   William St   10   2006   100   2006   37,803   37   2,2774   4294					1					29,612
Mains William St					1					31,536
Mairis   William St   49	Mains	William St		1923	100	2023	27,089	4		27,089
Maine William St	Mains	William St	37	1929	100	2029	12,980	10		12,980
Maries   William St   88   1929   100   2029   20,870   10   suggested for 10 year capital forecast   Maries   William St   90   1929   100   2029   23,1471   10   suggested for 10 year capital forecast   Maries   William St   90   1929   100   2029   23,1471   10   suggested for 10 year capital forecast   Maries   William St   22   1929   100   2029   31,800   10   suggested for 10 year capital forecast   Maries   William St   22   1929   100   2029   31,800   10   suggested for 10 year capital forecast   Maries   William St   57   2005   100   2006   97,500   87   22,374   10   100   2009   97,500   87   22,374   10   100   2009   97,500   87   22,374   10   100   2009   97,500   87   22,374   10   100   2009   97,500   87   22,374   10   100   2009   100   2009   97,500   87   22,374   100   2009   100   2009   97,500   87   22,374   100   2009   100   2009   97,500   87   22,404   100   2009   100   2009   97,500   87   22,404   100   2009   100   2009   97,500   87   22,404   100   2009   100   2009   97,500   87   22,404   100   100   2009   97,500   87   22,404   100   100   2009   100   2009   97,500   87   22,404   100   10	Mains	William St	49	1929	100	2029	17,273	10		17,273
Maries   William St   98   1928   1900   2028   39.1.12   10   3uggested for 10 year captal forecast Maries   William St   77   1929   100   2029   23.4.7.1   10   3uggested for 10 year captal forecast Maries   William St   90   1928   100   2029   23.4.7.1   10   3uggested for 10 year captal forecast Maries   William St   22   100   2029   18.8.18   10   3uggested for 10 year captal forecast Values   100   2009   18.8.18   10   3uggested for 10 year captal forecast Values   100   2009   18.8.18   10   3uggested for 10 year captal forecast Values   100   2009   19.8.18   10   3uggested for 10 year captal forecast Values   100   2009   19.8.18   10   3uggested for 10 year captal forecast Values   100   2009   19.8.18   100   2009   19.9.18   19.	Mains	William St	105	1929	100	2029	32,006	10		32,006
Mains William St	Mains	William St	88	1929	100	2029	26,870	10	suggested for 10 year capital forecast	26,870
Mains   William St   90   1929   100   2029   31,862   10   suggested for 10 year capital forenest	Mains	William St	99	1929	100	2029	30,112	10	suggested for 10 year capital forecast	30,112
Mains   William St   28   1928   100   2029   10   10   100   2029   10   10   2029   10   2029   10   2029   20	Mains	William St	77	1929	100	2029	23,471	10	suggested for 10 year capital forecast	23,471
Mains   William St   101   2005   100   2106   106,237   86   2,573	Mains	William St	90	1929	100	2029			suggested for 10 year capital forecast	31,863
Mains   William St   101   2006   100   2106   97.509   87   2.374   Mains   William St   102   2006   100   2106   97.855   87   2.383   Mains   William St   102   2006   100   2106   97.855   87   2.204   Mains   William St   102   2006   100   2106   187.022   87   4.555	Mains	William St	28	1929	100	2029		10	suggested for 10 year capital forecast	8,409
Mains   William St   102   2006   100   2106   98,720   87   2,388   4,555   4,055	Mains	William St	57	2005	100	2105			2,573	-
Mains   William St   100   2006   100   2106   187,092   87   2,464   4,555	Mains	William St	101	2006	100	2106			2,374	-
Mains   William St   102   2006   100   2106   187.002   87   4.556   Mains   William St   118   2006   100   2106   217.173   86   5.511   Mains   William St   87   2006   100   2106   22.277   87   616   Mains   William St   96   2006   100   2106   22.5297   87   616   Mains   William St   96   2006   100   2106   22.5297   87   626   626   Mains   William St   96   2006   100   2106   22.5297   87   626   626   Mains   William St   96   2006   100   2106   23.120   87   7   22   Mains   William St   15   2006   100   2106   4.388   87   106   Mains   William St   3   2005   100   2106   4.388   87   106   Mains   William St   3   2005   100   2106   4.388   87   106   Mains   William St   3   2006   100   2106   5.946   83   417   418   Mains   William St   3   2006   100   2106   880   87   221   418   Mains   William St   3   2006   100   2106   880   87   221   418   Mains   William St   3   2006   100   2106   2406   880   87   221   418   Mains   William St   3   3   2006   100   2106   24.803   87   604   Mains   William St   3   3   2006   100   2106   24.803   87   604   Mains   William St   3   5   2006   100   2106   24.803   87   604   Mains   William St   4   4   2006   100   2106   3.021   87   74   108   Mains   William St   4   4   2006   100   2106   3.021   87   74   4   4   4   4   4   4   4   4	Mains	William St	102	2006	100	2106			2,383	-
Mains         William St         118         2005         100         2105         217.173         86         5,311           Mains         William St         87         2006         100         2106         25,297         87         618           Mains         William St         36         2006         100         2106         87.7         87         688           Mains         William St         3         2006         100         2106         87.7         87         21           Mains         William St         15         200         100         2106         87.7         87         106           Mains         William St         3         2005         100         2105         1,002         88         22           Mains         William St         3         2005         100         2106         880         87         21           Mains         William St         3         2006         100         2106         880         87         22           Mains         William St         3         2006         100         2106         880         87         224           Mains         William St         9					1			ŭ.		-
Mains         William St         87         2006         100         2106         25.297         87         616           Mains         William St         96         2008         100         2106         25.207         87         686           Mains         William St         13         2006         100         2106         877         87         21           Mains         William St         15         2006         100         2106         4,388         87         106           Mains         William St         3         2005         100         2106         4,388         87         106           Mains         William St         3         2005         100         2102         5,946         83         147           Mains         William St         3         2006         100         2106         880         87         224           Mains         William St         3         2006         100         2106         24,803         87         24           Mains         William St         10         0         2106         24,803         87         74         108           Mains         William St         40							-			-
Mains         William St         96         2006         100         2106         28,120         87         688           Mains         William St         3         2006         100         2106         877         87         21           Mains         William St         15         2006         100         2105         1,002         86         25           Mains         William St         20         2002         100         2106         80         87         106           Mains         William St         20         2002         100         2106         89         87         21           Mains         William St         3         2006         100         2106         89         87         24           Mains         William St         3         2006         100         2106         24,803         87         604           Mains         William St         10         2006         100         2106         24,803         87         106           Mains         William St         10         2006         100         2106         4,427         87         106           Mains         William St         10							,			-
Mains         William St         1         2006         100         2106         877         87         21           Mains         William St         15         2006         100         2106         4.368         67         106           Mains         William St         20         2002         100         2102         5.946         83         147           Mains         William St         3         2006         100         2106         880         87         221           Mains         William St         3         2006         100         2106         995         87         24           Mains         William St         65         2006         100         2106         995         87         24           Mains         William St         65         2006         100         2106         4,427         87         106           Mains         William St         10         2006         100         2106         3,021         87         74           Mains         William St         40         2006         100         2106         11,651         87         224           Mains         William St         43										-
Mains         Willam St         15         2006         100         2106         4,388         87         106           Mains         Willam St         3         2005         100         2105         1,002         86         25           Mains         Willam St         20         2002         100         2102         5,946         83         147           Mains         Willam St         3         2006         100         2106         880         87         21           Mains         William St         3         2006         100         2106         985         87         24           Mains         William St         10         2006         100         2106         94,803         87         604           Mains         William St         10         2006         100         2106         4,427         87         108           Mains         William St         9         2006         100         2106         3,021         86         403           Mains         William St         40         2006         100         2106         11,651         87         284           Mains         William St         43					1					-
Mains         William St         3         2005         100         2105         1,002         86         25           Mains         William St         20         2002         100         2102         5,946         83         147           Mains         William St         3         2006         100         2106         880         87         21           Mains         William St         85         2006         100         2106         996         87         24           Mains         William St         85         2006         100         2106         996         87         108           Mains         William St         10         2006         100         2106         3,021         87         108           Mains         William St         9         2006         100         2106         3,021         87         74           Mains         William St         40         2006         100         2106         11,671         86         403           Mains         William St         43         2006         100         2106         11,673         87         284           Mains         William St         43					1					-
Mains         William St         20         2002         100         2102         5,946         83         147           Mains         William St         3         2006         100         2106         995         87         24           Mains         William St         3         2006         100         2106         995         87         24           Mains         William St         85         2006         100         2106         24,803         87         604           Mains         William St         10         2006         100         2106         4,427         77         108           Mains         William St         9         2006         100         2106         3,021         87         74           Mains         William St         57         2005         100         2105         16,472         86         403           Mains         William St         43         2006         100         2106         11,651         87         224           Mains         William St         43         2006         100         2106         12,433         87         303           Mains         William St         43								<b>.</b>		-
Mains         William St         3         2006         100         2106         880         87         21           Mains         William St         3         2006         100         2106         295         87         24           Mains         William St         85         2006         100         2106         24,803         87         604           Mains         William St         10         2008         100         2106         24,803         87         108           Mains         William St         9         2006         100         2106         3,021         87         74           Mains         William St         9         2006         100         2105         16,472         86         403           Mains         William St         40         2006         100         2106         11,651         87         284           Mains         William St         43         2006         100         2106         12,433         87         303           Mains         William St         43         2006         100         2106         28,125         87         685           Mains         William St         36 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>										-
Mains         William St         3         2006         100         2106         995         87         24           Mains         William St         85         2006         100         2106         24,803         87         604           Mains         William St         10         2006         100         2106         4,427         87         108           Mains         William St         9         2006         100         2106         16,472         87         74           Mains         William St         57         2005         100         2106         16,472         86         403           Mains         William St         40         2006         100         2106         11,651         87         284           Mains         William St         43         2006         100         2106         11,651         87         284           Mains         William St         43         2006         100         2106         12,433         87         303           Mains         William St         43         2006         100         2106         72,525         87         685           Mains         William St							-			-
Mains         William St         85         2006         100         2106         24,803         87         604           Mains         William St         10         2006         100         2106         4,427         87         108           Mains         William St         10         2006         100         2106         3,021         87         74           Mains         William St         57         2005         100         2105         16,472         86         403           Mains         William St         40         2006         100         2106         11,651         87         294           Mains         William St         43         2006         100         2106         11,651         87         294           Mains         William St         43         2006         100         2106         22,433         87         303           Mains         William St         96         2006         100         2106         28,125         87         685           Mains         William St         3         2006         100         2106         24,937         87         18           Mains         William St         <					1					-
Mains         William St         10         2006         100         2106         4.427         67         108           Mains         William St         9         2006         100         2106         3.021         87         74           Mains         William St         57         2005         100         2106         16.722         86         403           Mains         William St         40         2006         100         2106         11.651         87         284           Mains         William St         43         2006         100         2106         12.433         87         303           Mains         William St         43         2006         100         2106         12.433         87         303           Mains         William St         96         2006         100         2106         22.125         86         89           Mains         William St         3         2006         100         2106         730         87         685           Mains         William St         3         2006         100         2106         730         87         667           Mains         William St         3 <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>Ű.</td> <td></td> <td></td>					1			Ű.		
Mains         William St         9         2006         100         2106         3.021         87         74           Mains         William St         57         2005         100         2106         16,472         86         403           Mains         William St         40         2006         100         2106         11,851         87         284           Mains         William St         43         2006         100         2106         12,433         87         303           Mains         William St         11         2005         100         2105         3,622         86         89           Mains         William St         96         2006         100         2106         28,125         87         685           Mains         William St         3         2006         100         2106         24,937         87         18           Mains         William St         3         2006         100         2106         24,937         87         607           Mains         William St         3         2006         100         2106         1,007         87         25           Mains         William St         45<										_
Mains         William St         57         2005         100         2105         16,472         86         403           Mains         William St         40         2006         100         2106         11,651         87         224           Mains         William St         43         2006         100         2106         12,433         87         303           Mains         William St         11         2005         100         2106         12,433         87         303           Mains         William St         96         2006         100         2106         28,125         87         685           Mains         William St         96         2006         100         2106         730         87         18           Mains         William St         8         2006         100         2106         730         87         18           Mains         William St         3         2006         100         2106         730         87         607           Mains         William St         3         2006         100         2106         1,007         87         25           Mains         William St         96										_
Mains         William St         40         2006         100         2106         11,651         87         284           Mains         William St         43         2006         100         2106         12,433         87         303           Mains         William St         11         2005         100         2105         3,622         86         89           Mains         William St         96         2006         100         2106         28,125         87         685           Mains         William St         96         2006         100         2106         24,937         87         18           Mains         William St         86         2006         100         2106         24,937         87         607           Mains         William St         86         2006         100         2106         24,937         87         607           Mains         William St         55         2005         100         2106         24,937         87         607           Mains         William St         55         2005         100         2106         28,019         87         682           Mains         William St										_
Mains         William St         43         2006         100         2106         12,433         87         303           Mains         William St         11         2005         100         2105         3,622         86         89           Mains         William St         96         2006         100         2106         28,125         87         685           Mains         William St         3         2006         100         2106         730         87         18           Mains         William St         86         2006         100         2106         24,937         87         607           Mains         William St         3         2006         100         2106         1,007         87         25           Mains         William St         55         2005         100         2105         16,061         86         393           Mains         William St         96         2006         100         2105         16,061         86         331           Mains         William St         4         2005         100         2105         1,264         86         31           Mains         William St         8 <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>-</td>					1					-
Mains         William St         11         2005         100         2105         3,622         86         89           Mains         William St         96         2006         100         2106         28,125         87         685           Mains         William St         3         2006         100         2106         24,937         87         18           Mains         William St         86         2006         100         2106         24,937         87         607           Mains         William St         3         2006         100         2106         1,007         87         25           Mains         William St         55         2005         100         2105         16,061         86         393           Mains         William St         96         2006         100         2105         12,64         86         31           Mains         William St         4         2005         100         2106         23,356         87         57           Mains         William St         8         2006         100         2106         134,397         87         3,272           Mains         William St         9					1					-
Mains         William St         96         2006         100         2106         28,125         87         685           Mains         William St         3         2006         100         2106         730         87         18           Mains         William St         86         2006         100         2106         24,937         87         607           Mains         William St         3         2006         100         2106         1,007         87         25           Mains         William St         55         2005         100         2106         16,061         86         393           Mains         William St         96         2006         100         2106         28,019         87         682           Mains         William St         4         2005         100         2106         23,566         87         57           Mains         William St         8         2006         100         2106         23,566         87         57           Mains         William St         98         2006         100         2106         134,397         87         3,272           Mains         William St         9							3,622			
Mains         William St         86         2006         100         2106         24,937         87         607           Mains         William St         3         2006         100         2106         1,007         87         25           Mains         William St         55         2005         100         2106         16,061         86         393           Mains         William St         96         2006         100         2106         28,019         87         682           Mains         William St         4         2005         100         2105         1,264         86         31           Mains         William St         8         2006         100         2106         2,356         87         57           Mains         William St         98         2006         100         2106         134,397         87         3,272           Mains         William St         92         2006         100         2106         168,389         87         4,100           Mains         William St         45         2006         100         2106         83,447         87         2,2032           Mains         William St	Mains	William St	96		100			87	685	-
Mains         William St         3         2006         100         2106         1,007         87         25           Mains         William St         55         2005         100         2105         16,061         86         393           Mains         William St         96         2006         100         2106         28,019         87         682           Mains         William St         4         2005         100         2105         1,264         86         31           Mains         William St         8         2006         100         2106         2,3566         87         57           Mains         William St         98         2006         100         2106         124,397         87         3,272           Mains         William St         98         2006         100         2106         168,389         87         4,100           Mains         William St         45         2006         100         2106         83,447         87         2,032           Mains         William St         78         2006         100         2106         75,270         87         1,833           Mains         William St	Mains	William St	3	2006	100	2106		87	18	-
Mains         William St         55         2005         100         2105         16,061         86         393           Mains         William St         96         2006         100         2106         28,019         87         682           Mains         William St         4         2005         100         2105         1,264         86         31           Mains         William St         8         2006         100         2106         2,356         87         57           Mains         William St         98         2006         100         2106         134,397         87         3,272           Mains         William St         98         2006         100         2106         168,389         87         4,100           Mains         William St         45         2006         100         2106         83,447         87         2,032           Mains         William St         78         2006         100         2106         83,447         87         2,032           Mains         William St         78         2006         100         2106         75,270         87         1,833           Mains         William St <td>Mains</td> <td>William St</td> <td>86</td> <td>2006</td> <td>100</td> <td>2106</td> <td></td> <td></td> <td>607</td> <td>-</td>	Mains	William St	86	2006	100	2106			607	-
Mains         William St         96         2006         100         2106         28,019         87         682           Mains         William St         4         2005         100         2105         1,264         86         31           Mains         William St         8         2006         100         2106         2,356         87         57           Mains         William St         98         2006         100         2106         134,397         87         3,272           Mains         William St         92         2006         100         2106         168,389         87         4,100           Mains         William St         45         2006         100         2106         83,447         87         2,032           Mains         William St         78         2006         100         2106         75,270         87         1,833           Mains         William St         78         2006         100         2106         75,270         87         1,833           Mains         William St         101         2010         100         2110         29,301         91         702           Mains         William St <td>Mains</td> <td>William St</td> <td>3</td> <td>2006</td> <td>100</td> <td>2106</td> <td>1,007</td> <td>87</td> <td>25</td> <td>-</td>	Mains	William St	3	2006	100	2106	1,007	87	25	-
Mains         William St         4         2005         100         2105         1,264         86         31           Mains         William St         8         2006         100         2106         2,356         87         57           Mains         William St         98         2006         100         2106         134,397         87         3,272           Mains         William St         92         2006         100         2106         168,389         87         4,100           Mains         William St         45         2006         100         2106         75,270         87         2,032           Mains         William St         78         2006         100         2106         75,270         87         1,833           Mains         William St         101         2010         100         2110         29,301         91         702           Mains         William St         5         2010         100         2110         1,437         91         34           Mains         William St         5         2010         100         2110         1,509         91         36           Mains         Willow St	Mains						-			-
Mains         William St         8         2006         100         2106         2,356         87         57           Mains         William St         98         2006         100         2106         134,397         87         3,272           Mains         William St         92         2006         100         2106         168,389         87         4,100           Mains         William St         45         2006         100         2106         83,447         87         2,032           Mains         William St         78         2006         100         2106         75,270         87         1,833           Mains         William St         101         2010         100         2110         29,301         91         702           Mains         William St         5         2010         100         2110         1,437         91         34           Mains         William St         27         2010         100         2110         1,437         91         36           Mains         William St         27         2010         100         2110         1,509         91         36           Mains         Willow St	Mains		96		1					-
Mains         William St         98         2006         100         2106         134,397         87         3,272           Mains         William St         92         2006         100         2106         168,389         87         4,100           Mains         William St         45         2006         100         2106         83,447         87         2,032           Mains         William St         78         2006         100         2106         75,270         87         1,833           Mains         William St         101         2010         100         2110         29,301         91         702           Mains         William St         5         2010         100         2110         1,437         91         34           Mains         William St         27         2010         100         2110         8,010         91         192           Mains         William St         5         2010         100         2110         1,509         91         36           Mains         Willow St         83         1968         100         2068         25,364         49         817           Mains         Willow St	Mains				1					-
Mains         William St         92         2006         100         2106         168,389         87         4,100           Mains         William St         45         2006         100         2106         83,447         87         2,032           Mains         William St         78         2006         100         2106         75,270         87         1,833           Mains         William St         101         2010         100         2110         29,301         91         702           Mains         William St         5         2010         100         2110         1,437         91         34           Mains         William St         27         2010         100         2110         8,010         91         192           Mains         William St         5         2010         100         2110         1,509         91         36           Mains         Willow St         83         1968         100         2068         25,364         49         817           Mains         Willow St         93         1968         100         2068         27,043         49         871           Mains         Willow St					1					-
Mains         William St         45         2006         100         2106         83,447         87         2,032           Mains         William St         78         2006         100         2106         75,270         87         1,833           Mains         William St         101         2010         100         2110         29,301         91         702           Mains         William St         5         2010         100         2110         1,437         91         34           Mains         William St         27         2010         100         2110         8,010         91         192           Mains         William St         5         2010         100         2110         1,509         91         36           Mains         Willow St         83         1968         100         2068         25,364         49         817           Mains         Willow St         93         1968         100         2068         27,043         49         871           Mains         Willow St         94         1968         100         2068         27,280         49         879           Mains         Willow St <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>										-
Mains         William St         78         2006         100         2106         75,270         87         1,833           Mains         William St         101         2010         100         2110         29,301         91         702           Mains         William St         5         2010         100         2110         1,437         91         34           Mains         William St         27         2010         100         2110         8,010         91         192           Mains         William St         5         2010         100         2110         1,509         91         36           Mains         Willow St         83         1968         100         2068         25,364         49         817           Mains         Willow St         93         1968         100         2068         27,043         49         871           Mains         Willow St         94         1968         100         2068         27,280         49         879           Mains         Willow St         96         1968         100         2068         23,029         49         742           Mains         Willow St         7									·	-
Mains         William St         101         2010         100         2110         29,301         91         702           Mains         William St         5         2010         100         2110         1,437         91         34           Mains         William St         27         2010         100         2110         8,010         91         192           Mains         William St         5         2010         100         2110         1,509         91         36           Mains         Willow St         83         1968         100         2068         25,364         49         817           Mains         Willow St         93         1968         100         2068         27,043         49         871           Mains         Willow St         94         1968         100         2068         27,280         49         879           Mains         Willow St         96         1968         100         2068         28,012         49         902           Mains         Willow St         79         1968         100         2068         23,029         49         742           Mains         Willow St         71 </td <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>-</td>			1		1					-
Mains         William St         5         2010         100         2110         1,437         91         34           Mains         William St         27         2010         100         2110         8,010         91         192           Mains         William St         5         2010         100         2110         1,509         91         36           Mains         Willow St         83         1968         100         2068         25,364         49         817           Mains         Willow St         93         1968         100         2068         27,043         49         871           Mains         Willow St         94         1968         100         2068         27,280         49         879           Mains         Willow St         96         1968         100         2068         28,012         49         902           Mains         Willow St         79         1968         100         2068         23,029         49         742           Mains         Willow St         71         1968         100         2068         20,836         49         671           Mains         Willow St         12 <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>-</td>					1					-
Mains         William St         27         2010         100         2110         8,010         91         192           Mains         William St         5         2010         100         2110         1,509         91         36           Mains         Willow St         83         1968         100         2068         25,364         49         817           Mains         Willow St         93         1968         100         2068         27,043         49         871           Mains         Willow St         94         1968         100         2068         27,280         49         879           Mains         Willow St         96         1968         100         2068         28,012         49         902           Mains         Willow St         79         1968         100         2068         23,029         49         742           Mains         Willow St         71         1968         100         2068         20,836         49         671           Mains         Willow St         12         1968         100         2068         3,411         49         110										-
Mains         William St         5         2010         100         2110         1,509         91         36           Mains         Willow St         83         1968         100         2068         25,364         49         817           Mains         Willow St         93         1968         100         2068         27,043         49         871           Mains         Willow St         94         1968         100         2068         27,280         49         879           Mains         Willow St         96         1968         100         2068         28,012         49         902           Mains         Willow St         79         1968         100         2068         23,029         49         742           Mains         Willow St         71         1968         100         2068         20,836         49         671           Mains         Willow St         12         1968         100         2068         3,411         49         110										-
Mains         Willow St         83         1968         100         2068         25,364         49         817           Mains         Willow St         93         1968         100         2068         27,043         49         871           Mains         Willow St         94         1968         100         2068         27,280         49         879           Mains         Willow St         96         1968         100         2068         28,012         49         902           Mains         Willow St         79         1968         100         2068         23,029         49         742           Mains         Willow St         71         1968         100         2068         20,836         49         671           Mains         Willow St         12         1968         100         2068         3,411         49         110										-
Mains         Willow St         93         1968         100         2068         27,043         49         871           Mains         Willow St         94         1968         100         2068         27,280         49         879           Mains         Willow St         96         1968         100         2068         28,012         49         902           Mains         Willow St         79         1968         100         2068         23,029         49         742           Mains         Willow St         71         1968         100         2068         20,836         49         671           Mains         Willow St         12         1968         100         2068         3,411         49         110					1			1		-
Mains         Willow St         94         1968         100         2068         27,280         49         879           Mains         Willow St         96         1968         100         2068         28,012         49         902           Mains         Willow St         79         1968         100         2068         23,029         49         742           Mains         Willow St         71         1968         100         2068         20,836         49         671           Mains         Willow St         12         1968         100         2068         3,411         49         110					1					-
Mains         Willow St         96         1968         100         2068         28,012         49         902           Mains         Willow St         79         1968         100         2068         23,029         49         742           Mains         Willow St         71         1968         100         2068         20,836         49         671           Mains         Willow St         12         1968         100         2068         3,411         49         110										-
Mains         Willow St         79         1968         100         2068         23,029         49         742           Mains         Willow St         71         1968         100         2068         20,836         49         671           Mains         Willow St         12         1968         100         2068         3,411         49         110										-
Mains         Willow St         71         1968         100         2068         20,836         49         671           Mains         Willow St         12         1968         100         2068         3,411         49         110										-
Mains Willow St 12 1968 100 2068 3,411 49 110					1					-
					1					-
										-
Mains Willow St 70 1968 100 2068 21,403 49 689								l		-



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Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	Willow St	71	1968	100	2068	21,453	49	691	-
Mains	Willow St	38	1993	100	2093	10,689	74	278	-
Mains	Willow St	71	1956	100	2056	21,604	37	832	-
Mains	Willow St	81	1956	100	2056	24,712	37	952	-
Mains	Willow St	85	1956	100	2056	25,733	37	991	-
Mains	Wilson Ct	60	1966	100	2066	17,456 23,165	47	576	
Mains Mains	Windemere Cres Windemere Cres	79 52	1966 1966	100 100	2066 2066	15,149	47 47	765 500	1
Mains	Windemere Cres	91	1966	100	2066	26,531	47	876	
Mains	Windernere Cres	91	1966	100	2066	26,579	47	878	
Mains	Windemere Cres	91	1966	100	2066	26,546	47	876	-
Mains	Windemere Cres	92	1966	100	2066	26,803	47	885	-
Mains	Windemere Cres	53	1966	100	2066	15,457	47	510	-
Mains	Wingfield Ave	51	1999	100	2099	14,752	80	371	-
Mains	Wingfield Ave	90	1999	100	2099	26,364	80	663	1
Mains	Wingfield Ave	56	1999	100	2099	16,419	80	413	
Mains Mains	Wingfield Ave Wingfield Ave	59 24	1999 1999	100 100	2099 2099	17,138 6,972	80 80	<u>431</u> 175	-
Mains	Wingfield Ave	49	1999	100	2099	14,179	80 80		-
Mains	Wingfield Ave	33	2006	100	2099	9,207	87	224	
Mains	Woods St	92	1914	100	2019	27,846	0	suggested for 10 year capital forecast	27,846
Mains	Woods St	80	1956	100	2056	23,244	37	895	
Mains	Woods St	67	1914	100	2019	20,375	0	suggested for 10 year capital forecast	20,375
Mains	Woods St	27	1956	100	2056	7,855	37	302	-
Mains	Woods St	57	1956	100	2056	16,720	37	644	-
Mains	Woods St	88	1987	100	2087	25,787	68	697	-
Mains	Woods St	42	1987	100	2087	12,206 15,396	68	330	
Mains Mains	Woods St Woods St	51 43	1987 1987	100 100	2087 2087	12,573	68 68	<u>416</u> 340	
Mains	Woods St	68	1987	100	2087	19,941	68	539	
Mains	Woods St	26	2015		2115	-	96	178	1
Mains	Woods St	90	1953	100	2053	26,136	34	1,067	-
Mains	Woods St	92	1953	100	2053	26,824	34	1,095	-
Mains	Woods St	86	1953	100	2053	24,959	34	1,019	-
Mains	Wooton Ct	46	1976	100	2076	13,412	57	396	
Mains	Wooton Ct	42	1976	100	2076	12,191	57 	360	
Mains	Wooton Ct	19	1976	100	2076	5,663 36,727	57	167	-
Mains Mains	Worsley St Worsley St	20 7	2004 2004	100 100	2104 2104	11,957	85 85	902 294	
Mains	Worsley St	12	2004	100	2104	22,024	85	541	_
Mains	Worsley St	10	2005	100	2105	18,486	86	452	
Mains	Worsley St	59	2005	100	2105	108,934	86	2,664	
Mains	Worsley St	39	2005	100	2105	71,542	86	1,749	-
Mains	Worsley St	86	2005	100	2105	157,340	86	3,848	
Mains	Worsley St	51	2005	100	2105	93,959	86	2,298	-
Mains	Worsley St	66	2005	100	2105	121,506 16,675	86	2,971	-
Mains Mains	Worsley St	9 56	2005 2005	100 100	2105 2105		86 86	408 398	1
Mains	Worsley St Worsley St	46	2005	100	2105	13,435	86	329	
Mains	Worsley St	2	2005	100	2105		86	15	
Mains	Worsley St	2	2005	100	2105		86	15	-
Mains	Worsley St	5	2005	100	2105	2,213	86	54	-
Mains	Wright Blvd	135	1989	100	2089	80,358	70	2,143	-
Mains	Wright Blvd	135	1989	100	2089	80,486	70	2,146	
Mains	Wright Blvd	49	1989	100	2089	23,729	70 70	633	
Mains	Wright Blvd	134	1989	100	2089	69,726 43,861	70 70	1,859	
Mains Mains	Wright Blvd Wright Blvd	91 108	1989 1989	100 100	2089 2089	56,367	70 70	1,170 1,503	
Mains	Wright Blvd	95	1989	100	2089		70 79	1,152	
Mains	Wright Blvd	89	1998	100	2098	38,275	79	968	
Mains	Wright Blvd	91	1998	100	2098	44,051	79	1,114	
Mains	Wright Blvd	91	1998	100	2098	39,282	79	993	
Mains	Wright Blvd	93	1998	100	2098	44,972	79	1,137	-
Mains	Wright Blvd	25	2009	100	2109	7,342	90	177	-
Mains	Wright Blvd	76	2009	100	2109		90	554	1
Mains	Wright Blvd	17	2009	100	2109	5,322 23,633	90	128	İ
Mains Mains	Wright Blvd Wright Blvd	78 70	2009 2009	100 100	2109 2109	23,633	90 90	<u>568</u> 511	-
Mains	Wright Blvd	35	2009				90	258	
Mains	Wright Blvd	90	2009	100	2109		90	658	
Mains	Wright Blvd	90	2009	100	2109		90	657	1
Mains	Wright Blvd	90	2009	100			90	768	
Mains	Wright Blvd	90	2009	100	2109	32,000	90	769	-
Mains	Wright Blvd	90	2009	100	2109	31,828	90	765	-
Mains	Wright Blvd	79	2009	100	2109	27,895	90	671	-
Mains	Wright Blvd	72	2009	100	2109	25,449	90	612	Î
Mains	Wright Blvd	40	2009	100	2109		90	464	
Mains Mains	Wyatt St	49 52	1976 1976		2076 2076		57 57	425 449	
Mains	Wyatt St Wyatt St	69	1976		2076		57 57		1
IVIGIIIO	Try yair Or	09	1970	100	2010	20,202	5/	597	



# Sanitary Sewers

Asset	Street	Length (m)	Year Installed	Estimated Life	Replace ment Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Mains	York St	40	1929	100	2029	12,072	10	suggested for 10 year capital forecast	12,072
Mains	York St	80	1991	100	2091	22,183	72	584	-
Mains	York St	40	1992	100	2092	11,691	73	306	-
Mains	York St	14	1897	100	2019	4,306	0	suggested for 10 year capital forecast	4,306
Mains	York St	34	1897	100	2019	10,209	0	suggested for 10 year capital forecast	10,209
Mains	York St	50	1897	100	2019	15,317	0	suggested for 10 year capital forecast	15,317
Mains	Youngs St	166	1920	100	2020	50,603	1	suggested for 10 year capital forecast	50,603
Mains	Youngs St	26	1925	100	2025	7,946	6	suggested for 10 year capital forecast	7,946
Mains	Youngs St	158	1920	100	2020	47,992	1	suggested for 10 year capital forecast	47,992
Mains	Youngs St	110	2012	100	2112	32,055	93	762	-
Mains	Youngs St	128	2012	100	2112	37,183	93	884	-
Total		185,746				78,087,362		1,744,280	18,567,740



					Manholes			
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Abbey Ct	1968	100	2068	7,857	49	253	-
Manhole	Abbey Ct	1968	100	2068	7,857	49	253	-
Manhole	Abraham Dr	2002	100	2102	7,857	83	195	-
Manhole	Abraham Dr	2002	100	2102	7,857	83	195	-
Manhole	Abraham Dr	2002	100	2102	7,857	83	195	-
Manhole	Abraham Dr	2002	100	2102	7,857	83	195	-
Manhole	Abraham Dr	2002	100		7,857	83	195	-
Manhole	Abraham Dr	2002	100	2102	7,857	83	195	-
Manhole	Abraham Dr	2002	100		7,857	83	195	
Manhole	Abraham Dr	2002	100		7,857	83	195	
Manhole	Albert St	1912	100		7,857 7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Albert St	1913	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Albert St	1913	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Albert St	1915	100 100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Albert St Albert St	1915 1915			7,857	0	suggested for 10 year capital forecast	7,857 7,857
Manhole	Albert St	1915	100		7,857	1	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857
Manhole	Albert St	1920	100		7,857	1	suggested for 10 year capital forecast	7,857
Manhole	Albert St	1920	100		7,857	1	suggested for 10 year capital forecast	7,857
Manhole	Albert St	1920	100		7,857	1	suggested for 10 year capital forecast	7,857
Manhole	Albert St	1920	100		7,857	1	suggested for 10 year capital forecast	7,857
Manhole	Albert St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
Manhole	Albert St	1924	100		7,857	5	suggested for 10 year capital forecast	7,857
Manhole	Albert St	1949	100	2049	7,857	30	351	-
Manhole	Albert St	1982	100	2082	7,857	63	220	-
Manhole	Albert St	1998	100	2098	7,857	79	199	-
Manhole	Albert St	1998	100	2098	7,857	79	199	-
Manhole	Arden Pk	1947	100	2047	7,857	28	369	-
Manhole	Arden Pk	2000	100	2100		81	197	-
Manhole	Arden Pk	2000	100	2100	7,857	81	197	-
Manhole	Arden Pk	2000	100		7,857	81	197	-
Manhole	Argyle St	1916	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Argyle St	1916	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Argyle St	1979	100		7,857	60	226	
Manhole	Arthur St	1953	100		7,857 7,857	34	321	-
Manhole	Arthur St Arthur St	1953	100 100		7,857	34	321	-
Manhole Manhole	Athlone Cres	1953 1994	100		7,857	34 75	321 203	-
Manhole	Athlone Cres	1994	100		7,857	75	203	
Manhole	Athlone Cres	1994	100		7,857	75	203	
Manhole	Athlone Cres	1994	100		7,857	75	203	
Manhole	Athlone Cres	1994	100		7,857	75	203	
Manhole	Athlone Cres	1994	100		7,857	75	203	
Manhole	Athlone Cres	1994	100		7,857	75	203	
Manhole	Athlone Cres	1994	100	2094	7,857	75	203	-
Manhole	Athlone Cres	1994	100	2094	7,857	75	203	-
Manhole	Athlone Cres	1994	100	2094	7,857	75	203	-
Manhole	Avon St	1949	100	2049	7,857	30	351	-
Manhole	Avon St	1985	100	2085	7,857	66	215	-
Manhole	Avon St	1986	100	2086	7,857	67	214	-
Manhole	Avon St	2005	100		7,857	86	192	
Manhole	Avon St	2005	100		7,857	86	192	
Manhole	Avondale Ave	1914	100			0	suggested for 10 year capital forecast	7,857
Manhole	Avondale Ave	1919	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Avondale Ave	1947	100		7,857	28	369	-
Manhole	Avondale Ave	1954			7,857	35	314	-
Manhole	Avondale Ave	1990	100			71	208	
Manhole	Avondale Ave	2017	100		7,857	98	183	
Manhole Manhole	Avenwood Dr	1976	100		7,857 7,857	57 57	232	-
Manhole Manhole	Avenwood Dr	1976			7,857	57 57	232	-
Manhole Manhole	Avonwood Dr	1976					232	
Manhole Manhole	Avonwood Dr Avonwood Dr	1976 1976			7,857	57 57	232 232	
Manhole	Avonwood Dr	1976				57	232	
Manhole	Avonwood Dr	1976				57	232	
Manhole	Avonwood Dr	1976			·	57	232	
Manhole	Avonwood Dr	1976			·	57	232	
Manhole	Babb Cres	1968				49	253	
Manhole	Babb Cres	1968			·	49	253	
Manhole	Babb Cres	1968	100		7,857	49	253	
Manhole	Babb Cres	1968			7,857	49		
-	•	•			•			,



	-				Manholes			
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Baker St	1973	100	2073	7,857	54	239	-
Manhole	Baker St	1973	100	2073	7,857	54	239	-
Manhole	Baker St	1973	100	2073	7,857	54	239	-
Manhole	Baker St	1973	100			54	239	
Manhole	Baker St	1973	100	2073	7,857	54	239	
Manhole Manhole	Ballantyne Ave Ballantyne Ave	1908	100		7,857 7,857	0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Ballantyne Ave	1908 1910	100 100		7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
Manhole	Ballantyne Ave	1987	100		7,857	68	212	
Manhole	Barnsdale St	2004	100		7,857	85	193	
Manhole	Barron St	1977	100	2077	7,857	58	230	-
Manhole	Barron St	1978	100	2078	7,857	59	228	-
Manhole	Barron St	1978	100		7,857	59	228	-
Manhole	Barron St	1978	100	2078	7,857	59	228	-
Manhole	Battershall Ct	1976	100			57	232	-
Manhole	Battershall Ct	1976	100	2076	7,857 7,857	57	232	
Manhole Manhole	Battershall Ct Battershall Ct	1976 1976	100 100			57 57	232 232	-
Manhole	Battershall Ct	1976	100			57	232	
Manhole	Bay St	1919	100			0	suggested for 10 year capital forecast	7,857
Manhole	Bay St	1919	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Bay St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
Manhole	Bay St	1988	100		7,857	69	211	-
Manhole	Bay St	1988	100	2088	7,857	69	211	-
Manhole	Bedford Dr	1965	100	2065	7,857	46	263	-
Manhole	Bedford Dr	1967	100	2067	7,857	48	256	-
Manhole	Bedford Dr	1967	100	2067	7,857	48	256	-
Manhole	Bedford Dr	1967	100	2067	7,857	48	256	-
Manhole	Bedford Dr	1973				54	239	-
Manhole	Bedford Dr	1973	100			54	239	
Manhole	Bedford Dr	1973	100			54	239	
Manhole	Bedford Dr	1973	100		7,857	54	239	
Manhole	Bedford Dr	1973	100		7,857 7,857	54	239	-
Manhole Manhole	Bell Ct	1993 1993	100 100		7,857	74 74	204 204	-
Manhole	Bell Ct	1993	100		7,857	74	204	-
Manhole	Bell Ct	1993	100			74	204	-
Manhole	Bell Ct	2000	100			81	197	_
Manhole	Birmingham St	1910	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Birmingham St	1910	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Birmingham St	1914	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Birmingham St	1914	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Birmingham St	1914	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Birmingham St	1920	100			1	suggested for 10 year capital forecast	7,857
Manhole	Birmingham St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
Manhole	Birmingham St	1922	100		7,857	3	suggested for 10 year capital forecast	7,857
Manhole	Birmingham St	1922	100		7,857 7,857	3	suggested for 10 year capital forecast	7,857
Manhole Manhole	Birmingham St Birmingham St	1927 1982	100 100		7,857	63	suggested for 10 year capital forecast 220	7,857
Manhole	Birmingham St	1982	100		7,857	67	214	-
Manhole	Birmingham St	2005	100		7,857	86	192	
Manhole	Birmingham St	2005	100			86	192	
Manhole	Birmingham St	2005	100			86	192	
Manhole	Birmingham St	2005	100			86	192	
Manhole	Birmingham St	2005	100	2105	7,857	86	192	-
Manhole	Birmingham St	2005	100	2105		86	192	-
Manhole	Birmingham St	2005	100			86	192	
Manhole	Birmingham St	2005	100		7,857	86	192	
Manhole	Blake St	1923	100		7,857	4	suggested for 10 year capital forecast	7,857
Manhole	Blake St	1965	100			46	263	
Manhole Manhole	Blake St	1965	100			46	263	
Manhole Manhole	Blake St	1982				63		
Manhole Manhole	Blake St Blake St	1986	100			67 87	214	-
Manhole Manhole	Blake St Borden St	2006 1914	100 100			0	191 suggested for 10 year capital forecast	7 057
Manhole	Borden St	1914	100			2	suggested for 10 year capital forecast	7,857 7,857
Manhole	Borden St	1964	100			45	266	
		1				95	185	
Manhole	IBorden St	2014	700	7114	7,007	-, .	163	-
Manhole Manhole	Borden St Boyd St	2014 1987	100 100		7,857	68	212	



					Manholes			
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Braemar Cres	1974	100	2074	7,857	55	237	-
Manhole	Braemar Cres	1974	100	2074	7,857	55	237	-
Manhole	Braemar Cres	1974	100			55	237	-
Manhole	Braemar Cres	1974	100			55	237	-
Manhole	Braemar Cres	1974	100			55	237	-
Manhole Manhole	Brant St Brant St	1986 1987	100 100		7,857	67 68	214 212	-
Manhole	Brant St	1987	100		7,857	68	212	
Manhole	Brant St	1987	100		7,857	68	212	_
Manhole	Brett St	1976	100			57	232	-
Manhole	Brett St	1976	100	2076	7,857	57	232	-
Manhole	Brett St	1976	100	2076		57	232	-
Manhole	Briarhill Dr	1966	100			47	259	-
Manhole	Briarhill Dr	1966	100			47	259	-
Manhole	Briarhill Dr	1974	100			55	237	-
Manhole	Briarhill Dr Briarhill Dr	1974	100	-		55 67	237	-
Manhole Manhole	Briarniii Dr Briarhill Dr	1986 1986	100 100			67	214 214	<u>-</u>
Manhole	Briarhill Dr	1986	100		·	67	214	-
Manhole	Briarhill Dr	1986	100			67	214	-
Manhole	Briarhill Dr	1991	100		7,857	72	207	-
Manhole	Briarhill Dr	1991	100	2091	7,857	72	207	-
Manhole	Briarhill Dr	1991	100	2091	7,857	72	207	-
Manhole	Britannia St	1941	100		7,857	22	445	-
Manhole	Britannia St	1959	100		7,857	40	287	-
Manhole	Britannia St	1963	100			44	270	-
Manhole Manhole	Britannia St Britannia St	1963 1963	100			44	270 270	-
Manhole	Britannia St	1963				44	270	
Manhole	Britannia St	1963	100			44	270	_
Manhole	Britannia St	1963				44	270	-
Manhole	Britannia St	1965	100	2065	7,857	46	263	-
Manhole	Britannia St	1965	100			46	263	-
Manhole	Britannia St	1965	100			46	263	-
Manhole	Britannia St	1990	100			71	208	-
Manhole Manhole	Britannia St Britannia St	1990 2003	100 100			71 84	208 194	-
Manhole	Britannia St	2003	100			84	194	
Manhole	Britannia St	2003	100			84	194	_
Manhole	Britannia St	2003	100			84	194	-
Manhole	Britannia St	2003	100	2103	7,857	84	194	-
Manhole	Britannia St	2003	100	2103		84	194	-
Manhole	Britannia St	2003	100			84	194	-
Manhole	Britannia St	2003	100			84	194	-
Manhole	Brown St	2005	100			86	192	-
Manhole Manhole	Brown St Brown St	2005 2005	100 100			86 86	192 192	-
Manhole	Brown St	2005	100		·	86	192	
Manhole	Brown St	2006	100			87	191	-
Manhole	Brown St	2006	100			87	191	-
Manhole	Brown St	2006	100		7,857	87	191	-
Manhole	Bruce St	1964	100	2064		45	266	-
Manhole	Bruce St	1964	100			45	266	-
Manhole	Bruce St	1964	100			45	266	-
Manhole	Bruce St	1976				57	232	- 7.55
Manhole Manhole	Brunswick St Brunswick St	1900 1912	100 100		·	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
Manhole Manhole	Brunswick St	1912	100			0	suggested for 10 year capital forecast	7,857
Manhole	Brunswick St	1913	100			0	suggested for 10 year capital forecast	7,857
Manhole	Brunswick St	1915	100			0	suggested for 10 year capital forecast	7,857
Manhole	Brunswick St	1915			7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Brunswick St	1916	100			0	suggested for 10 year capital forecast	7,857
Manhole	Brunswick St	1916				0	suggested for 10 year capital forecast	7,857
Manhole	Brunswick St	1918				0	suggested for 10 year capital forecast	7,857
Manhole	Brunswick St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
Manhole Manhole	Brunswick St	1921	100			2	suggested for 10 year capital forecast	7,857
Manhole Manhole	Brunswick St	1921	100		7,857 7,857	2	suggested for 10 year capital forecast	7,857
Manhole Manhole	Brunswick St Brunswick St	1924 1924	100 100			5	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
Manhole	Brunswick St	1924				30		
IVIGITIOIS	וס אטואפווטוםן	1 1349	100	2049	1,007	30	331	<u> </u>



	Manholes										
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast			
Manhole	Brunswick St	1977	100	2077	7,857	58	230	-			
Manhole	Brunswick St	1994	100	2094	7,857	75	203	-			
Manhole	Brunswick St	1994	100	2094	7,857	75	203	-			
Manhole	Brunswick St	1994	100		7,857	75	203				
Manhole	Brunswick St	1994	100		7,857	75	203	-			
Manhole	Brunswick St	1995	100		7,857 7,857	76	202	-			
Manhole Manhole	Brunswick St Brunswick St	1997 1998	100 100		7,857	78 79	200 199				
Manhole	Brunswick St	2005	100		7,857	86					
Manhole	Brunswick St	1897	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Brunswick St	1897	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Brydges St	1913	100	2019	7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Brydges St	1913	100	2019	7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Brydges St	1913	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Brydges St	1913	100		7,857	0	7	7,857			
Manhole	Brydges St	1913	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Brydges St	1913	100		7,857 7,857	0	suggested for 10 year capital forecast	7,857			
Manhole Manhole	Brydges St Brydges St	1913 1992	100 100		7,857	73	suggested for 10 year capital forecast 206	7,857			
Manhole	Brydges St Brydges St	1992	100		7,857	80	198				
Manhole	Brydges St	2002	100		7,857	83	195				
Manhole	Brydges St	2004	100		7,857	85	193				
Manhole	Brydges St	2006	100	2106	7,857	87	191	-			
Manhole	Brydges St	2006	100	2106	7,857	87	191	-			
Manhole	Brydges St	2006	100	2106	7,857	87	191	-			
Manhole	Brydges St	2006	100		7,857	87	191	-			
Manhole	Buckingham Dr	1971	100		7,857	52	244	-			
Manhole	Buckingham Dr	2000	100		7,857	81	197	-			
Manhole	Burnham Ct	1992			7,857 7,857	73					
Manhole Manhole	Burnham Ct Burritt St	1992 1950	100 100		·	73 31	206 343				
Manhole	Burritt St	1950	100		7,857	31	343				
Manhole	Burritt St	1950				31	343				
Manhole	Burritt St	1950	100		7,857	31	343				
Manhole	Burritt St	1954	100		7,857	35	314				
Manhole	Burritt St	1956	100	2056	7,857	37	303	-			
Manhole	Burritt St	1956	100		7,857	37	303				
Manhole	Burritt St	1963	100		7,857	44	270				
Manhole	Burritt St	1966	100		7,857	47	259				
Manhole Manhole	Burritt St	1966	100		7,857 7,857	47	259				
Manhole Manhole	Burritt St Burritt St	1966 1967	100 100		7,857	47 48	259 256				
Manhole	Burritt St	1974	100		7,857	55	237	-			
Manhole	Burritt St	2006	100			87	191	-			
Manhole	Burwell Rd	1987	100		7,857	68	212	-			
Manhole	C.H. Meier Blvd	1966	100	2066	7,857	47	259	-			
Manhole	C.H. Meier Blvd	1966	100	2066	7,857	47	259	-			
Manhole	C.H. Meier Blvd	1966	100		7,857	47	259				
Manhole	C.H. Meier Blvd	1966	100		7,857	47	259				
Manhole	C.H. Meier Blvd	1966	100		7,857	47	259				
Manhole Manhole	C.H. Meier Blvd	1966	100		7,857 7,857	47	259				
Manhole Manhole	C.H. Meier Blvd C.H. Meier Blvd	1967 1967	100 100		7,857	48 48	256 256				
Manhole Manhole	C.H. Meier Blvd	1967	100		7,857	48	256				
Manhole	C.H. Meier Blvd	1967	100		7,857	48					
Manhole	Caledonia St	1906	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Caledonia St	1906			7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Caledonia St	1908	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Caledonia St	1930	100	2030	7,857	11	803	-			
Manhole	Caledonia St	1973	100		7,857	54	239				
Manhole	Caledonia St	1986			7,857	67	214				
Manhole	Caledonia St	1992				73					
Manhole	Caledonia St	1998				79					
Manhole	Caledonia St	2006				87	191				
Manhole Manhole	Caledonia St	2006	100 100			87 87	191 191	-			
Manhole Manhole	Caledonia St Cambria St	2006 1919			7,857	0	191 suggested for 10 year capital forecast	- 7,857			
LIVIUI II IUIŪ	Garriona Gt	1919									
	Cambria St	1930	100	2030	7,857	11	ጸበን	٠ -			
Manhole Manhole	Cambria St Cambria St	1930 1992	100 100		7,857 7,857	11 73	803 206				



		Manholes									
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast			
Manhole	Cambria St	1994	100	2094	7,857	75	203	-			
Manhole	Cambria St	1994	100		7,857	75	203	-			
Manhole Manhole	Cambria St	1994 1997	100		7,857 7,857	75 78	203	-			
Manhole Manhole	Cambria St Cambria St	1997	100 100		7,857	78	200	-			
Manhole	Cambria St	1997	100		7,857	78	200	-			
Manhole	Cambria St	2006	100	2106	7,857	87	191	-			
Manhole	Cambria St	2006	100		7,857	87	191	-			
Manhole Manhole	Cambria St	2006	100		7,857 7,857	87 87	191	-			
Manhole Manhole	Cambria St Cambria St	2006 2006	100 100		7,857	87	191 191	-			
Manhole	Campbell Ct	1976	100		7,857	57	232	-			
Manhole	Campbell Ct	1976	100	2076	7,857	57	232	1			
Manhole	Campbell Ct	1976	100		7,857	57	232	-			
Manhole Manhole	Campbell Ct Campbell Ct	1976	100 100		7,857 7,857	57 58	232	-			
Manhole	Campbell Ct Canterbury Ave	1977 1924	100		7,857	5	230 suggested for 10 year capital forecast	7,857			
Manhole	Canterbury Ave	1924	100		7,857	5	suggested for 10 year capital forecast	7,857			
Manhole	Canterbury Ave	1956	100		7,857	37	303	-			
Manhole	Caroline St	1915	100	2019	7,857	0	suggested for 10 year capital forecast	7,857			
Manhole Manhole	Caroline St	1980	100		7,857 7,857	61	224	-			
Manhole Manhole	Caroline St Cawston St	1982 1959	100 100		7,857	63 40	220 287	-			
Manhole	Cawston St	1959	100		7,857	40	287	_			
Manhole	Cawston St	1965	100		7,857	46	263	-			
Manhole	Cedar St	1915	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Cedar St	1964	100	2064	7,857	45	266	-			
Manhole Manhole	Cedar St Cedar St	1975 1975	100 100		7,857 7,857	56 56		-			
Manhole	Cedar St Cedarbrae Dr	1975	100		7,857	67	214				
Manhole	Cedarbrae Dr	1991	100		7,857	72	207	-			
Manhole	Cedarbrae Dr	1991	100	2091	7,857	72	207	-			
Manhole	Centre St	1914	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Centre St	1914	100 100		7,857 7,857	78	suggested for 10 year capital forecast	7,857			
Manhole Manhole	Centre St	1997 2004	100		7,857	85	200				
Manhole	Charles St	1907	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Charles St	1907	100	2019	7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Charles St	1907	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Charles St Charles St	1907 1907	100 100		7,857 7,857	0	suggested for 10 year capital forecast	7,857			
Manhole Manhole	Charles St	1907	100		7,857	28	suggested for 10 year capital forecast 369	7,857			
Manhole	Charles St	1986	100		7,857	67	214	-			
Manhole	Charles St	1986	100	2086	7,857	67	214	-			
Manhole	Cherry St	1925	100		7,857	6	suggested for 10 year capital forecast	7,857			
Manhole	Cherry St	2006	100		7,857 7,857	87	191	-			
Manhole Manhole	Chestnut St Church St	2011 1900	100 100		7,857	92	187 suggested for 10 year capital forecast	7,857			
Manhole	Church St	1915	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Church St	1916	100	2019	7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Church St	1918	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Church St	1920	100		7,857 7,857	1	suggested for 10 year capital forecast	7,857			
Manhole Manhole	Church St	1922 1924	100 100		7,857	5	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857			
Manhole	Church St	1959	100		7,857	40	287				
Manhole	Church St	1962	100		7,857	43	274	-			
Manhole	Church St	1983	100		7,857	64	219	-			
Manhole Manhole	Church St	1984	100		7,857 7,857	65	217	-			
Manhole Manhole	Church St Church St	1986 2005	100 100		7,857	67 86	214 192	-			
Manhole	Church St	2005	100			86		-			
Manhole	Church St	2005	100		7,857	86		-			
Manhole	Church St	2005	100		7,857	86		-			
Manhole	Church St	2005	100			86	192	-			
Manhole Manhole	Church St Churchill Crcl	2012	100			93	187	-			
Manhole Manhole	Churchill Crcl	1986 2001	100 100		7,857	67 82	214 196	<u>-</u>			
Manhole	Cluff Ct	2002	100			83					
Manhole	Cobourg Lane	1916	100	2019	7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Cobourg St	1907	100	2019	7,857	0	suggested for 10 year capital forecast	7,857			



		Manholes										
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast				
Manhole	Cobourg St	1913	100	2019	7,857	0	suggested for 10 year capital forecast	7,857				
Manhole	Cobourg St	1913	100		7,857	0	suggested for 10 year capital forecast	7,857				
Manhole	Cobourg St	1913	100		7,857	0	suggested for 10 year capital forecast	7,857				
Manhole	Cobourg St	1913	100		7,857 7,857	0	suggested for 10 year capital forecast	7,857				
Manhole Manhole	Cobourg St Cobourg St	1913 1913	100 100		7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857				
Manhole	Cobourg St	1913	100		7,857	0	suggested for 10 year capital forecast	7,857				
Manhole	Cobourg St	1924	100	2024	7,857	5	suggested for 10 year capital forecast	7,857				
Manhole	Cobourg St	1997	100		7,857	78	200	-				
Manhole	Cody Dr	2004	100		7,857	85	193					
Manhole Manhole	Cody Dr Cody Dr	2004 2004	100 100		7,857 7,857	85 85	193 193					
Manhole	Cody Dr	2004	100		7,857	85	193					
Manhole	College St	2005	100		7,857	86	192					
Manhole	College St	2005	100		7,857	86	192					
Manhole	College St	2005	100		7,857	86	192					
Manhole Manhole	Copper St	2005 1912	100 100		7,857 7,857	86	192	7,857				
Manhole	Cooper St Cooper St	2010	100		7,857	91	suggested for 10 year capital forecast 188					
Manhole	Corcoran St	1946	100		7,857	27	379					
Manhole	Corcoran St	2008	100	2108	7,857	89	190	-				
Manhole	Corcoran St	2008	100		7,857	89	190	1				
Manhole	Coriano St	1946	100		7,857 7,857	27	379					
Manhole Manhole	Coriano St	1946 2001	100 100		7,857	27 82	379 196					
Manhole	Crane Ave	1961	100		7,857	42	278					
Manhole	Crane Ave	1961	100		7,857	42	278					
Manhole	Crane Ave	1961	100		7,857	42	278	-				
Manhole	Crane Ave	1961	100		7,857	42	278					
Manhole Manhole	Crane Ave	1961 1961	100		7,857 7,857	42 42	278					
Manhole Manhole	Crane Ave	1961	100 100		7,857	50	278 250					
Manhole	Crane Ave	1969	100		7,857	50	250					
Manhole	Crane Ave	2006	100	2106	7,857	87	191	-				
Manhole	Crane Ave	2006	100		7,857	87	191	-				
Manhole	Crane Ave	2006	100		7,857 7,857	87	191	-				
Manhole Manhole	Crane Ave Crawford St	2006 1991	100 100		7,857	87 72	191 207	-				
Manhole	Crehan Cres	1976	100		7,857	57	232					
Manhole	Crehan Cres	1976			7,857	57	232					
Manhole	Crehan Cres	1976	100		7,857	57	232	-				
Manhole	Crehan Cres	1976			7,857	57	232					
Manhole Manhole	Crehan Cres Crehan Cres	1976 1976			7,857 7,857	57 57	232 232					
Manhole	Daly Ave	1920	100		7,857	1	suggested for 10 year capital forecast	7,857				
Manhole	Daly Ave	1920			7,857	1	suggested for 10 year capital forecast	7,857				
Manhole	Daly Ave	1996	100	2096	7,857	77	201	-				
Manhole	Daly Ave	2017	100		7,857	98	183	1				
Manhole	Dannecker Rd	2004 1956	100 100		7,857 7,857	85 37	193 303					
Manhole Manhole	Dawson St  Dawson St	1956	100		7,857	37	303					
Manhole	Dawson St	1956	100		7,857	37	303	1				
Manhole	Dawson St	1958	100		7,857	39	292	-				
Manhole	Dawson St	1958	100		7,857	39	292					
Manhole	Deacon St	1976			7,857	57	232					
Manhole Manhole	Deacon St  Delamere Ave	1989 1948	100 100		7,857 7,857	70 29	210 360					
Manhole	Delamere Ave	1948	100		7,857	33	328					
Manhole	Delamere Ave	1954	100		7,857	35	314					
Manhole	Delamere Ave	1955	100		7,857	36	308					
Manhole	Delamere Ave	1956				37	303					
Manhole Manhole	Delamere Ave Delamere Ave	1956 1956			7,857 7,857	37 37	303 303					
Manhole Manhole	Delamere Ave	1956			·	37	292					
Manhole	Delamere Ave	1958				39	292					
Manhole	Delamere Ave	1958				39	292					
Manhole	Delamere Ave	1958	100		7,857	39	292					
Manhole	Delamere Ave	1963				44	270					
Manhole Manhole	Delamere Ave Demille St	1963 1977				44 58	270 230					
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	Manholes										
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast			
Manhole	Demille St	1978	100	2078	7,857	59	228	-			
Manhole	Demille St	1978	100	2078	7,857	59	228	-			
Manhole	Denison St	1956	100	2056	7,857	37	303	-			
Manhole	Denison St	1956	100		7,857	37	303				
Manhole	Devon St	1925	100		7,857	6	suggested for 10 year capital forecast	7,857			
Manhole	Devon St	1925	100		7,857 7,857	6	suggested for 10 year capital forecast	7,857			
Manhole Manhole	Devon St  Devon St	1925 1925	100 100		7,857	6	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857			
Manhole	Devon St	1925	100		7,857	37	303				
Manhole	Devon St	1968	100		7,857	49	253	-			
Manhole	Devon St	1968	100		7,857	49	253	-			
Manhole	Devon St	1968	100	2068	7,857	49	253	-			
Manhole	Devon St	1968	100	2068	7,857	49	253	-			
Manhole	Devon St	1968	100	2068	7,857	49	253	-			
Manhole	Devon St	1968	100		7,857	49	253				
Manhole	Devon St	1968	100		7,857	49	253				
Manhole	Devon St	1968	100		7,857 7,857	49	253				
Manhole Manhole	Devon St  Devon St	1976 1976	100 100		7,857	57 57	232 232	-			
Manhole	Devon St	1976			7,857	57	232				
Manhole	Devon St	1976	100		7,857	57	232	-			
Manhole	Devon St	1976			7,857	57	232	-			
Manhole	Devon St	1976	100	2076	7,857	57	232	-			
Manhole	Devon St	1976	100		7,857	57	232	-			
Manhole	Devon St	1976	100		7,857	57	232	-			
Manhole	Devon St	1976			7,857	57	232				
Manhole Manhole	Devon St	1976	100		7,857 7,857	57 57	232				
Manhole Manhole	Devon St  Devon St	1976 1976	100 100			57	232 232	-			
Manhole	Devon St	1976			7,857	57	232	-			
Manhole	Devon St	1976			·	57	232	-			
Manhole	Devon St	1976	100	2076	7,857	57	232				
Manhole	Devon St	1977	100	2077	7,857	58	230	-			
Manhole	Devon St	1977	100		7,857	58	230				
Manhole	Devon St	1977	100		7,857	58	230				
Manhole	Devon St	1977	100		7,857 7,857	58	230				
Manhole Manhole	Devon St  Devon St	1998 2006	100 100		7,857	79 87	199 191	-			
Manhole	Diana Ct	1958	100		7,857	39	292	-			
Manhole	Diana Ct	1966	100		7,857	47	259				
Manhole	Dickens PI	1976			7,857	57	232				
Manhole	Dickens PI	1976	100	2076	7,857	57	232	-			
Manhole	Dickens PI	1976	100	2076	7,857	57	232	-			
Manhole	Dickens PI	1976			7,857	57	232	-			
Manhole	Dingman PI	1996	100		7,857	77	201	-			
Manhole	Dingman PI	1996	100		7,857 7,857	77	201	-			
Manhole Manhole	Dingman PI Dingman PI	1996 1996	100 100		7,857	77 77	201 201	-			
Manhole	Dixon Rd	1967	100		7,857	48	256	-			
Manhole	Dixon Rd	1967	100		7,857	48	256				
Manhole	Dixon Rd	1967	100		7,857	48	256				
Manhole	Dixon Rd	1967	100		7,857	48	256				
Manhole	Dorland Dr	1967	100	2067	7,857	48	256	-			
Manhole	Dorland Dr	1967	100		7,857	48	256				
Manhole	Douglas St	1908			7,857	0	7	7,857			
Manhole	Douglas St	1908	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole Manhole	Douglas St	1921 1948	100 100		7,857 7,857	29	suggested for 10 year capital forecast	7,857			
Manhole	Douglas St  Douglas St	1948	100		7,857	29	360 360				
Manhole	Douglas St  Douglas St	1948	100		7,857	43	274				
Manhole	Douglas St	1984	100		7,857	65	217	-			
Manhole	Douglas St	1992				73					
Manhole	Douglas St	2000				81	197				
Manhole	Douglas St	2000	100	2100		81	197	-			
	ĺ	1 2000	100	2100	7,857	81	197	-			
	Douglas St	2000									
Manhole	Douglas St	2002	100	2102		83	195				
Manhole Manhole Manhole	Douglas St Douglas St	2002 2005	100 100	2102 2105	7,857	86	192	-			
Manhole	Douglas St	2002	100 100	2102 2105 2105	7,857		192	-			



	Manholes										
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast			
Manhole	Douglas St	2005	100	2105	7,857	86	192	-			
Manhole	Douglas St	2005	100	2105	7,857	86	192				
Manhole	Douglas St	2005	100		7,857	86	192	-			
Manhole	Douglas St	2011	100		7,857	92	187	-			
Manhole	Douglas St	2011	100		7,857	92	187	-			
Manhole Manhole	Douglas St Douro St	2016	100		7,857 7,857	97	184	7.057			
Manhole	Douro St	1914 1915	100		7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857			
Manhole	Douro St	1915	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Douro St	1924	100		7,857	5	suggested for 10 year capital forecast	7,857			
Manhole	Douro St	1963	100	2063	7,857	44	270				
Manhole	Douro St	1963	100	2063	7,857	44	270	-			
Manhole	Douro St	1963	100		7,857	44	270	-			
Manhole	Douro St	1963	100	2063	7,857	44	270	-			
Manhole	Douro St	1963	100		7,857	44	270				
Manhole	Douro St	1964	100		7,857	45	266	-			
Manhole	Douro St	1964	100		7,857	45	266	-			
Manhole Manhole	Douro St	1964	100		7,857 7,857	45	266	-			
Manhole Manhole	Douro St	1965 1965	100 100		7,857	46 46	263 263	-			
Manhole	Douro St	1965	100		7,857	46	263				
Manhole	Douro St	1965	100		7,857	46		-			
Manhole	Douro St	1965	100		7,857	46	263	_			
Manhole	Douro St	1966	100		7,857	47	259	_			
Manhole	Douro St	1966	100		7,857	47	259	-			
Manhole	Douro St	1966	100	2066	7,857	47	259	-			
Manhole	Douro St	1966	100	2066	7,857	47	259	-			
Manhole	Douro St	1977	100	2077	7,857	58	230	-			
Manhole	Douro St	1980	100	2080		61	224	-			
Manhole	Douro St	1980	100		7,857	61	224	-			
Manhole	Douro St	1981	100		7,857	62		-			
Manhole	Douro St	1981	100		7,857	62	222	-			
Manhole	Douro St	1981	100		7,857 7,857	62		-			
Manhole Manhole	Douro St  Douro St	1982 1982	100 100		7,857	63 63		-			
Manhole Manhole	Douro St	1982	100		7,857	63					
Manhole	Douro St	1982	100		7,857	63					
Manhole	Douro St	1983	100		7,857	64					
Manhole	Douro St	1999	100		7,857	80					
Manhole	Dover St	1923	100	2023	7,857	4	suggested for 10 year capital forecast	7,857			
Manhole	Downie St	1912	100	2019	7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Downie St	1913	100	2019	7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Downie St	1913	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Downie St	1913				0	suggested for 10 year capital forecast	7,857			
Manhole	Downie St	1913	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Downie St	1918				0	suggested for 10 year capital forecast	7,857			
Manhole	Downie St	1921	100		7,857 7,857	2	suggested for 10 year capital forecast	7,857			
Manhole Manhole	Downie St  Downie St	1949 1949	100 100		7,857	30 30		-			
Manhole	Downie St	1949	100		7,857	40	287	-			
Manhole	Downie St	1964	100		7,857	45					
Manhole	Downie St	1969	100		7,857	50					
Manhole	Downie St	1969	100		7,857	50					
Manhole	Downie St	1983	100		7,857	64	219				
Manhole	Downie St	1983	100	2083	7,857	64	219	-			
Manhole	Downie St	1983	100	2083	7,857	64	219				
Manhole	Downie St	1983	100		7,857	64		-			
Manhole	Downie St	1986	100		7,857	67	214	-			
Manhole	Downie St	1986	100			67		-			
Manhole	Downie St	1988	100			69		-			
Manhole Manhole	Downie St	1989	100		7,857 7,857	70					
Manhole Manhole	Downie St	1989				70					
Manhole Manhole	Downie St  Downie St	1989 1989				70 70					
Manhole Manhole	Downie St Downie St	1989				70 74					
Manhole	Downie St	2013				94		-			
Manhole	Dufferin St	1914	100			0		7,857			
		1914	100			0	suggested for 10 year capital forecast	7,857			
Manhole	IDullerin St	1914									
Manhole Manhole	Dufferin St  Dufferin St	1914				0	suggested for 10 year capital forecast	7,857			



	_			•	Manholes			
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Dufferin St	1964	100	2064	7,857	45	266	-
Manhole	Dufferin St	1966	100	2066	7,857	47	259	-
Manhole	Dufferin St	1966	100	2066		47	259	-
Manhole	Dufferin St	1966	100			47	259	-
Manhole	Dufferin St	1966	100			47	259	-
Manhole	Dufferin St	1992	100		7,857 7,857	73	206	-
Manhole Manhole	Dufferin St  Dufferin St	1992 1992	100 100		7,857	73 73	206 206	-
Manhole	Dufferin St	1992	100		7,857	75	203	
Manhole	Dufferin St	2008	100			89	190	_
Manhole	Dufferin St	2008	100			89	190	-
Manhole	Dufferin St	2008	100	2108	7,857	89	190	-
Manhole	Dufferin St	2015	100	2115		96	185	-
Manhole	Dufferin St	2015	100	2115		96	185	-
Manhole	Duke St	1913	100			0	suggested for 10 year capital forecast	7,857
Manhole	Duke St	1970	100			51	247	-
Manhole Manhole	Dunlop PI Dunlop PI	1991	100		7,857 7,857	72 72	207	-
Manhole Manhole	Dunlop PI	1991 1991	100 100		7,857	72	207 207	-
Manhole	Dunlop PI	2006	100			87	191	-
Manhole	Dunn Rd	2001	100		7,857	82	196	-
Manhole	Dunn Rd	2001	100		7,857	82	196	-
Manhole	Dunn Rd	2001	100	2101	7,857	82	196	-
Manhole	Dunn Rd	2001	100		7,857	82	196	-
Manhole	Dunn Rd	2001	100		7,857	82	196	-
Manhole	Dunn Rd	2001	100		7,857	82	196	-
Manhole Manhole	Dunn Rd Dunn Rd	2001	100		7,857 7,857	82 82	196	-
Manhole Manhole	Dunn Rd	2001	100 100		7,857	82	196 196	-
Manhole	Dunn Rd	2001	100		7,857	82	196	-
Manhole	Dunn Rd	2001	100		7,857	82	196	_
Manhole	Eagle Dr	1998	100		7,857	79	199	-
Manhole	Eagle Dr	1998	100	2098		79	199	-
Manhole	Eagle Dr	1998	100			79	199	-
Manhole	Earl St	1909	100			0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Earl St Easson St	1909 1953	100 100			34	suggested for 10 year capital forecast	7,857
Manhole Manhole	Easson St	1953	100			35	321 314	
Manhole	Easson St	1954	100			35	314	-
Manhole	Easson St	1955	100			36	308	-
Manhole	Easson St	1956	100	2056	7,857	37	303	-
Manhole	Easson St	1956	100	2056		37	303	-
Manhole	East Gore St	1914	100			0	suggested for 10 year capital forecast	7,857
Manhole	East Gore St	1914	100			0		7,857
Manhole Manhole	East Gore St	1916				0	suggested for 10 year capital forecast	7,857
Manhole Manhole	East Gore St East Gore St	1986 1987	100 100		7,857	67 68	214 212	-
Manhole	East Gore St	1987	100		7,857	68	212	-
Manhole	East Gore St	1987	100		7,857	68	212	-
Manhole	Edison Cres	1991	100		7,857	72	207	-
Manhole	Edison Cres	1991	100		7,857	72	207	-
Manhole	Edison Cres	1991	100	2091	7,857	72	207	-
Manhole	Egan Crcl	1978				59	228	-
Manhole Manhole	Elgin Cres	1964	100		7,857	45	266	-
Manhole Manhole	Elgin Cres	1964				45 45	266	-
Manhole Manhole	Elgin Cres Elgin Cres	1964 1964	100 100			45 45	266 266	-
Manhole	Elgin Cres	1964	100		7,857	45	266	-
Manhole	Elgin Cres	1964	100			45	266	-
Manhole	Elgin Cres	1964	100			45	266	-
Manhole	Elgin Cres	1964	100	2064		45	266	-
Manhole	Elgin Cres	2002				83		-
Manhole	Elizabeth St	1971	100		7,857	52	244	-
Manhole	Elizabeth St	1995				76	202	-
IN/lopholo	Elizabeth St	1995	100	2095	7,857	76	202	-
Manhole					7 057			
Manhole	Elizabeth St	1995	100			76		-
Manhole Manhole	Elizabeth St Elizabeth St	1995 2002	100 100	2102	7,857	83	195	-
Manhole	Elizabeth St	1995	100 100	2102 2102	7,857 7,857			-



	Manholes										
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast			
Manhole	Elm St	2007	100	2107	7,857	88	190				
Manhole	Elm St	2008	100	2108	7,857	89	190	-			
Manhole	Erie St	1912	100	2019		0	suggested for 10 year capital forecast	7,857			
Manhole	Erie St	1912	100			0	suggested for 10 year capital forecast	7,857			
Manhole	Erie St	1912	100			0	suggested for 10 year capital forecast	7,857			
Manhole	Erie St	1912	100			0	suggested for 10 year capital forecast	7,857			
Manhole Manhole	Erie St Erie St	1912 1913	100 100			0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857			
Manhole	Erie St	1915	100			0	suggested for 10 year capital forecast	7,857			
Manhole	Erie St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857			
Manhole	Erie St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857			
Manhole	Erie St	1921	100	2021	7,857	2	suggested for 10 year capital forecast	7,857			
Manhole	Erie St	1928	100	2028		9	suggested for 10 year capital forecast	7,857			
Manhole	Erie St	1949	100	2049		30	351	-			
Manhole	Erie St	1960	100			41	283	-			
Manhole	Erie St	1960	100			41	283	-			
Manhole	Erie St Erie St	1960	100			41	283	-			
Manhole Manhole	Erie St	1960 1960	100 100			41	283 283	-			
Manhole	Erie St	1960	100			41	283	-			
Manhole	Erie St	1961	100		7,857	42	278	-			
Manhole	Erie St	1961	100		7,857	42	278	-			
Manhole	Erie St	1961	100	2061	7,857	42	278	-			
Manhole	Erie St	1961	100		7,857	42	278	-			
Manhole	Erie St	1963	100			44	270	-			
Manhole	Erie St	1963	100			44	270	-			
Manhole Manhole	Erie St	1964	100			45 45	266	-			
Manhole Manhole	Erie St Erie St	1964 1970	100 100			51	266 247	-			
Manhole	Erie St	1970				51	247	-			
Manhole	Erie St	1970			·	51	247	-			
Manhole	Erie St	1970	100			51	247	-			
Manhole	Erie St	1970	100	2070		51	247	-			
Manhole	Erie St	1979	100			60	226	-			
Manhole	Erie St	1985	100			66	215	-			
Manhole	Erie St	1985	100			66	215	-			
Manhole Manhole	Erie St Erie St	1990 1997	100 100		7,857	71 78	208 200	-			
Manhole	Erie St	1997	100		7,857	78	200	-			
Manhole	Erie St	2001	100		7,857	82	196	-			
Manhole	Erie St	2006	100		7,857	87	191	-			
Manhole	Erie St	2006	100	2106	7,857	87	191	-			
Manhole	Erie St	2006	100	2106		87	191	-			
Manhole	Erie St	2006				87	191	-			
Manhole	Erie St	2006	100			87	191	-			
Manhole	Erie St	2006	100			87	191	-			
Manhole Manhole	Erie St Erie St	2006 2006	100 100		·	87 87	191 191	-			
Manhole Manhole	Erie St	2006	100			87 87	191	-			
Manhole	Erie St	2006	100			87	191	<u> </u>			
Manhole	Erie St	2006	100			87	191	-			
Manhole	Erie St	2006	100		7,857	87	191	-			
Manhole	Erie St	2006	100	2106		87	191	-			
Manhole	Erie St	2006	100			87	191	-			
Manhole	Erie St	2006				87	191	-			
Manhole	Erie St	2011	100		7,857	92	187	-			
Manhole Manhole	Erie St Erie St	2011	100 100		7,857 7,857	92 92	187 187	-			
Manhole Manhole	Erie St	2011	100		7,857	92	187	-			
Manhole	Erie St	1897	100			0	suggested for 10 year capital forecast	7,857			
Manhole	Erie St	1897	100			0	suggested for 10 year capital forecast	7,857			
Manhole	Essex St	1964				45					
Manhole	Essex St	1964				45	266				
Manhole	Essex St	1964	100	2064		45	266	-			
	1 .	2005	100	2105	7,857	86	192	-			
Manhole	Fairfield Dr										
Manhole Manhole	Fairfield Dr	2005	100	2105		86		-			
Manhole Manhole Manhole	Fairfield Dr Fairfield Dr	2005 2005	100 100	2105 2105	7,857	86	192	-			
Manhole Manhole	Fairfield Dr	2005	100 100	2105 2105 2105	7,857 7,857			-			



Number   Part						Manholes			
Number	Asset	Street				Replacement		Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manchele   Farifield Pr   2006   100   2100   7.697   87   191   191   192   192   192   192   192   193	Manhole	Fairfield Dr	2006	100	2106	7,857	87	191	-
Marchele   Fainfield Fr   2000   100   2000   7.657   37   39   39   30   30   30   30   30   30	Manhole	Fairfield Dr	2006	100	2106	7,857	87	191	-
Manchell	Manhole	Fairfield Dr	2006	100	2106		87	191	-
Manchade   Falstaff S	Manhole						87		-
Machobo							1		7,857
Marcholo   Faisk St.   1902   1903   2002   7.887   4.5   7.74							1	, ,	7,857
Mambole   Fasik Cess   1982   100   2082   7.557   4.5   7.547   4.5   7.24   4.5   7.547   4.5									
Manchele   Faick Cres   1962   100   2002   7,857   4.5   7,74   7,857   4.5   7,74   7,857   4.5   7,74   7,857   4.5   7,74   7,857   4.5   7,74   7,857   4.5   7,74   7,857   4.5   7,74   7,857   4.5   7,74   7,857   4.5   7,74   7,857   4.5   7,74   7,757   4.5   7,74   7,757   4.5   7,757   4.5   7,74   7,757   4.5   7,75									
Machole   Falck Cee   1962   190   2002   7,807   45   274   45   274   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474   45   474									
Manched   Perch Cores   1982   100   2002   7,897   43   274   Manched   Perch Cores   1982   100   2002   7,897   45   274   Manched   Perch Cores   1982   100   2002   7,897   86   192   Manched   Perch Cores   1982   100   2105   7,897   86   192   Manched   Perch Cores   1982   100   2105   7,897   86   192   Manched   Perch Cores   1982   100   2105   7,897   86   192   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2205   7,897   46   2207   Manched   Perch Cores   1982   100   2207   7,897   46   2207   Manched   Perch Cores   1982   100   2207   7,897   46   2207   Manched   Perch Cores   1982   100   2207   7,897   46   2207   Manched   Perch Cores   1982   100   2207   7,897   46   2207   Manched   Perch Cores   1982   100   2207   7,897   46   2207   Manched   Perch Cores   1982   100   2207   7,897   46   2207   Manched   Perch Cores   1982   100   2207   7,897   46   2207   Manched   Perch Cores   1982   100   2207   7,897   46   2207   Manched   Perch Cores   1982   100   2207   7,897   45   2207   Manched   Perch Cores   1982   100   2207   7,897   45   2207   Manched   Perch Cores   1982   100   2207   7,897   45   2207   Manched   Perch Cores   1982   100   2207   7,897   45   2207   Ma						7,857			
Manchole Findlay PI 2005 190 2005 7,857 49 192 192 Manchole Findlay PI 2005 190 2105 7,857 89 192 Manchole Findlay PI 2005 190 2105 7,857 89 192 Manchole Findlay PI 2005 190 2105 7,857 89 192 Manchole Findlay PI 2005 190 2205 7,857 40 227 Manchole Findlay PI 2005 190 2005 7,857 40 227 Manchole Forman Ave 1988 190 2005 7,857 40 227 Manchole Forman Ave 1989 190 2005 7,857 40 227 Manchole Forman Ave 1989 190 2005 7,857 40 227 Manchole Forman Ave 1989 190 2005 7,857 40 227 Manchole Forman Ave 1989 190 2005 7,857 40 227 Manchole Forman Ave 1980 190 2005 7,857 40 227 Manchole Forman Ave 1980 190 2005 7,857 40 227 Manchole Forman Ave 1982 190 2005 7,857 40 227 Manchole Forman Ave 1982 190 2005 7,857 40 227 Manchole Forman Ave 1982 190 2005 7,857 40 227 Manchole Forman Ave 1982 190 2005 7,857 40 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 43 227 Manchole Forman Ave 1982 190 2005 7,857 40 227 227 Manchole Forman Ave 1982 190 2005 7,857 40 227 227 Manchole Forman Ave 1982 190 2005 7,857 40 227 227 227 Manchole Forman Ave 1982 190 2005 7,857 40 227 227 227 Manchole Forman Ave 1982 190 2005 7,857 40 227 227 227 227 Manchole Forman Ave 1982 190 2005 7,857 40 227 227 227 227 227 227 227 227 227 22	Manhole	Feick Cres	1962	100	2062	7,857	43	274	-
Mancholo Findlay PI 2005 100 2105 7.857 88 102 102 Mancholo Findlay PI 2005 100 2105 7.857 88 102 Mancholo Findlay PI 2005 100 2005 7.857 88 102 Mancholo Findlay PI 2005 100 2005 7.857 80 102 Mancholo Findlay PI 2005 100 2005 7.857 40 2017 2017 2017 2017 2017 2017 2017 201	Manhole	Feick Cres	1962	100	2062		43	274	-
Marbolo Findley PI 2006 190 2105 7,887 88 102 Marbolo Findley PI 2006 190 2105 7,887 88 102 Marbolo Forman Ave 1959 190 2209 7,887 40 287 Marbolo Forman Ave 1959 190 2209 7,887 40 287 Marbolo Forman Ave 1959 190 2009 7,887 40 287 Marbolo Forman Ave 1959 190 2009 7,887 40 287 Marbolo Forman Ave 1959 190 2009 7,887 40 287 Marbolo Forman Ave 1959 190 2009 7,887 40 287 Marbolo Forman Ave 1959 190 2009 7,887 40 287 287 Marbolo Forman Ave 1959 190 2009 7,887 40 287 287 Marbolo Forman Ave 1950 190 2009 7,887 40 227 287 Marbolo Forman Ave 1950 190 2009 7,887 40 227 287 Marbolo Forman Ave 1950 190 2009 7,887 40 227 287 Marbolo Forman Ave 1950 190 2009 7,887 40 227 287 Marbolo Forman Ave 1950 190 2002 7,887 40 227 287 Marbolo Forman Ave 1950 190 2002 7,887 43 277 40 277 Marbolo Forman Ave 1950 190 2002 7,887 43 277 40 277 Marbolo Forman Ave 1950 190 2002 7,887 43 277 40 277 Marbolo Forman Ave 1950 190 2002 7,887 43 277 40 277 Marbolo Forman Ave 1950 190 2002 7,887 43 277 40 40 40 40 40 40 40 40 40 40 40 40 40	Manhole	Feick Cres	1962	100	2062		43	274	-
Marchele   Fireday P   2005   100   2006   7,897   40   227		1							
Marchola   Forman Ave   1959   100   2006   7,867   40   297		1							
Marchola   Forman Awa   1959   100   2059   7,857   40   287		<u> </u>							
Machael   Forman Ave   1958   100   2058   7,857   40   287									-
Machole   Forman Ave									<b>†</b>
Marchola   Forman Ava   1990   100   2000   7,857   40   227									-
Manhold   Forman Ave   1985   100   2080   7,887   45   277   1,000						7,857			-
Manhold   Forman Ave   1962   100   2082   7.857   43   274	Manhole	Forman Ave	1959	100	2059	7,857	40	287	-
Manhole   Forman Ave   1962   100   2062   7.857   43   274	Manhole						40	287	-
Manhole   Forman Ave   1962   100   2062   7.857   43   274									
Manhole         Forman Ave         1962         100         2082         7.857         43         2274           Manhole         Forman Ave         1962         100         2062         7.857         43         274           Manhole         Forman Ave         1962         100         2062         7.857         43         274           Manhole         Forman Ave         1962         100         2062         7.857         43         274           Manhole         Forman Ave         1962         100         2062         7.857         43         274           Manhole         Forman Ave         1962         100         2062         7.857         43         274           Manhole         Forman Ave         1962         100         2068         7.857         43         274           Manhole         Forman Ave         1969         100         2068         7.857         50         250           Manhole         Forman Ave         1991         100         2061         7.857         56         235           Manhole         Forman Ave         1991         100         2061         7.857         72         207           Manhole									
Manhole         Forman Ave         1962         100         2082         7,857         43         224           Manhole         Forman Ave         1962         100         2062         7,857         43         274           Manhole         Forman Ave         1962         100         2062         7,857         43         2274           Manhole         Forman Ave         1962         100         2062         7,857         43         2274           Manhole         Forman Ave         1962         100         2062         7,857         43         2274           Manhole         Forman Ave         1962         100         2062         7,857         43         2274           Manhole         Forman Ave         1996         100         2069         7,857         50         250           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Manhole Forman Ave 1962 100 2062 7.857 43 274									
Manhole Forman Ave 1982 100 2082 7,857 43 274									
Manhole   Forman Ave   1982   100   2082   7,857   43   274				i		·			
Manhole         Forman Ave         1962         100         2062         7,857         43         274           Manhole         Forman Ave         1986         100         2068         7,857         50         250           Manhole         Forman Ave         1975         100         2075         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1964         100         2064         7,857         45         266           Manhole </td <td></td> <td></td> <td></td> <td>100</td> <td></td> <td></td> <td></td> <td></td> <td></td>				100					
Manhole         Forman Ave         1968         100         2068         7,857         50         250           Manhole         Forman Ave         1975         100         2076         7,857         56         235           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Franklin Dr         1999         100         2059         7,857         40         287           Manhole         Franklin Dr         1999         100         2059         7,857         40         287           Manhole         Franklin Dr         1999         100         2059         7,857         40         287           Manhole         Franklin Dr         1999         100         2069         7,857         40         287           Manhole         Franklin Dr         1996         100         2069         7,857         45         266           Manhole<	Manhole	Forman Ave	1962	100	2062	7,857	43	274	-
Manhole         Forman Ave         1975         100         2075         7,857         56         235           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1969         100         2059         7,857         40         287           Manhole         Franklin Dr         1964         100         2064         7,857         45         266           Manhole         Franklin Dr         1971         100         2071         7,857         52         244           Manhole	Manhole								
Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2093         7,857         72         207           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2064         7,857         40         287           Manhole         Franklin Dr         1964         100         2064         7,857         45         266         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -									
Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1964         100         2064         7,857         45         266         -           Manhole         Franklin Dr         1964         100         2064         7,857         45         2266         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         1971         100         2071         7,857         52			1						
Manhole         Forman Ave         1991         100         2091         7,857         72         207           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1964         100         2064         7,857         45         266         -           Manhole         Franklin Dr         1964         100         2064         7,857         45         266         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         2000         100         2100         7,857									
Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1958         100         2059         7,857         40         287           Manhole         Franklin Dr         1964         100         2064         7,857         45         266         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         1900         100         2100         7,857         81         197         -           Manhole         Franklin Dr         2000         100         2100         7,857									
Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1964         100         2064         7,857         45         266         -           Manhole         Franklin Dr         1964         100         2064         7,857         45         266         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         2000         100         2100         7,857         81         197         -           Manhole         Franklin Dr         2000         100         2100         7,857         81         197         -           Manhole         Franklin Dr         2000         100									
Manhole         Franklin Dr         1959         100         2059         7,857         40         287           Manhole         Franklin Dr         1964         100         2064         7,857         45         266         -           Manhole         Franklin Dr         1964         100         2064         7,857         45         266         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         2000         100         2100         7,857         81         197         -           Manhole         Franklin Dr         2000         100         2100         7,857         81         197         -           Manhole         Franklin Dr         2000         100         2100         7,857         81         197         -           Manhole         Frederick St <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Manhole         Franklin Dr         1964         100         2064         7,857         45         266	Manhole	Franklin Dr	1959	100	2059	7,857	40	287	-
Manhole         Franklin Dr         1964         100         2064         7,857         45         266	Manhole	Franklin Dr	1959	100	2059		40	287	-
Manhole         Franklin Dr         1971         100         2071         7,857         52         244           Manhole         Franklin Dr         1971         100         2071         7,857         52         244           Manhole         Franklin Dr         1971         100         2071         7,857         52         244           Manhole         Franklin Dr         2000         100         2100         7,857         81         197           Manhole         Franklin Dr         2000         100         2100         7,857         81         197           Manhole         Franklin Dr         2000         100         2100         7,857         81         197           Manhole         Franklin Dr         2000         100         2100         7,857         81         197           Manhole         Frederick St         1921         100         2021         7,857         2         suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1927         100         2027         7,857         48         suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1927         100			1						
Manhole         Franklin Dr         1971         100         2071         7,857         52         244			1	i					
Manhole         Franklin Dr         1971         100         2071         7,857         52         244         -           Manhole         Franklin Dr         2000         100         2100         7,857         81         197         -           Manhole         Franklin Dr         2000         100         2100         7,857         81         197         -           Manhole         Franklin Dr         2000         100         2100         7,857         81         197         -           Manhole         Franklin Dr         2000         100         2100         7,857         81         197         -           Manhole         Frederick St         1921         100         2021         7,857         2         suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1921         100         2027         7,857         8         suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1927         100         2027         7,857         8         suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1967         100         2067         7,857         4									
Manhole         Franklin Dr         2000         100         2100         7,857         81         197           Manhole         Franklin Dr         2000         100         2100         7,857         81         197           Manhole         Franklin Dr         2000         100         2100         7,857         81         197           Manhole         Franklin Dr         2000         100         2100         7,857         81         197           Manhole         Frederick St         1921         100         2021         7,857         2 suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1921         100         2021         7,857         2 suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1927         100         2027         7,857         8 suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1927         100         2027         7,857         48         suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1967         100         2067         7,857         48         suggested for 10 year capital forecast         7,8     <									
Manhole         Franklin Dr         2000         100         2100         7,857         81         197			1						
Manhole         Franklin Dr         2000         100         2100         7,857         81         197									
Manhole         Franklin Dr         2000         100         2100         7,857         81         197			1						
Manhole         Frederick St         1921         100         2021         7,857         2 suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1927         100         2027         7,857         8 suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1967         100         2067         7,857         48         256         -           Manhole         Frederick St         1973         100         2073         7,857         54         239         -           Manhole         Frederick St         1976         100         2076         7,857         54         239         -           Manhole         Frederick St         1976         100         2076         7,857         57         232         -           Manhole         Frederick St         1981         100         2081         7,857         62         222         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Freeland Dr         1979         100         2079         7,857         60         226         -	Manhole	Franklin Dr	2000	100	2100	7,857	81	197	-
Manhole         Frederick St         1927         100         2027         7,857         8 suggested for 10 year capital forecast         7,8           Manhole         Frederick St         1967         100         2067         7,857         48         256         -           Manhole         Frederick St         1973         100         2073         7,857         54         239         -           Manhole         Frederick St         1976         100         2076         7,857         57         232         -           Manhole         Frederick St         1981         100         2081         7,857         62         222         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Freeland Dr         1979         100         2079         7,857         60         226         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole<	Manhole	Frederick St	1				2	suggested for 10 year capital forecast	7,857
Manhole         Frederick St         1967         100         2067         7,857         48         256         -           Manhole         Frederick St         1973         100         2073         7,857         54         239         -           Manhole         Frederick St         1976         100         2076         7,857         57         232         -           Manhole         Frederick St         1981         100         2081         7,857         62         222         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Freeland Dr         1979         100         2079         7,857         60         226         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Fr			1				2		7,857
Manhole         Frederick St         1973         100         2073         7,857         54         239         -           Manhole         Frederick St         1976         100         2076         7,857         57         232         -           Manhole         Frederick St         1981         100         2081         7,857         62         222         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Freeland Dr         1979         100         2079         7,857         60         226         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Freeland Dr         1988         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Free			_				8		7,857
Manhole         Frederick St         1976         100         2076         7,857         57         232         -           Manhole         Frederick St         1981         100         2081         7,857         62         222         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Freeland Dr         1984         100         2084         7,857         65         217         -           Manhole         Freeland Dr         1979         100         2079         7,857         60         226         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freela				i					
Manhole         Frederick St         1981         100         2081         7,857         62         222         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Freeland Dr         1979         100         2079         7,857         60         226         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Freeland Dr         1988         100         2089         7,857         69         211         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freela			1						1
Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Freeland Dr         1979         100         2079         7,857         60         226         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freelan									
Manhole         Frederick St         1984         100         2084         7,857         65         217         -           Manhole         Freeland Dr         1979         100         2079         7,857         60         226         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland			1						
Manhole         Freeland Dr         1979         100         2079         7,857         60         226         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -			1						1
Manhole         Freeland Dr         1988         100         2088         7,857         69         211         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -									
Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -			1						
Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -	Manhole	Freeland Dr	1988	100	2088		69	211	-
Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -									
Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -           Manhole         Freeland Dr         1989         100         2089         7,857         70         210         -									
Manhole Freeland Dr 1989 100 2089 7,857 70 210 -									
			1						
Manholo   Freeland Dr.   1000  100  1000  7000  704/  70	Manhole Manhole	Freeland Dr Freeland Dr	1989 1989				70 70		



	Manholes										
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast			
Manhole	Freeland Dr	1989	100	2089	7,857	70	210	-			
Manhole	Freeland Dr	1989	100		7,857	70	210	-			
Manhole	Freeland Dr	1989	100		7,857 7,857	70	210	-			
Manhole Manhole	Freeland Dr Front St	1994 1912	100 100		7,857	75 0	203 suggested for 10 year capital forecast	7,857			
Manhole	Front St	1912	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Front St	1921	100	2021	7,857	2	suggested for 10 year capital forecast	7,857			
Manhole	Front St	1965	100		7,857	46	263	-			
Manhole	Front St	1965	100		7,857 7,857	46	263	-			
Manhole Manhole	Front St Front St	1965 1976	100 100		7,857	46 57	263 232	-			
Manhole	Front St	1981	100		7,857	62	222	-			
Manhole	Front St	1987	100	2087	7,857	68	212	1			
Manhole	Front St	1993	100		7,857	74	204	-			
Manhole Manhole	Galt Rd Galt Rd	1968 1977	100 100		7,857 7,857	49 58	253	-			
Manhole	Galt Rd	1977	100		7,857	68	230 212	-			
Manhole	Galt Rd	1987	100		7,857	68	212	-			
Manhole	Gemmell Ct	1993	100	2093	7,857	74	204	-			
Manhole	General Hospital [		100		7,857	30	351	_			
Manhole	George St E	1921	100		7,857 7,857	2	suggested for 10 year capital forecast	7,857			
Manhole Manhole	George St E George St W	1896 1912	100 100		7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857			
Manhole	George St W	1921	100		7,857	2	suggested for 10 year capital forecast	7,857			
Manhole	George St W	1896	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	George St W	1896	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Glastonbury Cres	1952	100		7,857	33	328	-			
Manhole Manhole	Glastonbury Cres	1952 1952	100 100		7,857 7,857	33 33	328 328	-			
Manhole	Glastonbury Cres Glastonbury Cres	1952	100		7,857	33	328				
Manhole	Glastonbury Cres	1952	100	2052	7,857	33	328	-			
Manhole	Glastonbury Cres	2001	100	2101	7,857	82	196	-			
Manhole	Glastonbury Cres	2001	100		7,857	82	196	-			
Manhole	Glastonbury Dr	1946	100		7,857 7,857	27	379	-			
Manhole Manhole	Glastonbury Dr Glastonbury Dr	1952 1952	100 100		7,857	33 33	328 328	-			
Manhole	Glastonbury Dr	1952	100		7,857	33	328	-			
Manhole	Glastonbury Dr	1952	100	2052	7,857	33	328	-			
Manhole	Glastonbury Dr	1952	100		7,857	33	328	-			
Manhole	Glastonbury Dr	1952 1952	100 100		7,857 7,857	33	328	-			
Manhole Manhole	Glastonbury Dr Glastonbury Dr	1952	100		7,857	33 57	328 232	-			
Manhole	Glastonbury Dr	1976	100		7,857	57	232	-			
Manhole	Glastonbury Dr	1976	100	2076	7,857	57	232	-			
Manhole	Glastonbury Dr	1976	100		7,857	57	232	-			
Manhole	Glastonbury Dr	1976	100		7,857 7,857	57	232	-			
Manhole Manhole	Glastonbury Dr Glastonbury Dr	1976 1976	100 100		7,857	57 57	232 232	-			
Manhole	Glastonbury Dr	1976	100		7,857	57	232	-			
Manhole	Glastonbury Dr	2001	100	2101	7,857	82	196				
Manhole	Glastonbury Dr	2001	100		7,857	82	196	-			
Manhole Manhole	Glastonbury Dr Glastonbury Dr	2001 2001	100 100		7,857 7,857	82 82	196 196	-			
Manhole	Glastonbury Dr	2001	100		7,857	82	196	-			
Manhole	Glendon Rd	1964	100		7,857	45	266	-			
Manhole	Glendon Rd	1965	100	2065	7,857	46	263	-			
Manhole	Glendon Rd	1965	100		7,857	46	263	-			
Manhole	Glendon Rd	1965	100		7,857 7,857	46	263	-			
Manhole Manhole	Glendon Rd Glendon Rd	1966 1966	100 100		7,857	47 47	259 259	-			
Manhole	Glendon Rd	1966	100			47	259	-			
Manhole	Glendon Rd	1966	100		7,857	47	259	-			
Manhole	Glendon Rd	1966	100		7,857	47	259	-			
Manhole	Glendon Rd	1972	100		7,857	53	242	-			
Manhole Manhole	Glendon Rd Glendon Rd	1972 1972	100 100		7,857 7,857	53 53	242 242	-			
Manhole	Glendon Rd Glendon Rd	1972	100		7,857	53	242	-			
Manhole	Gordon St	1956	100		7,857	37	303	-			
Manhole	Gordon St	1956	100		7,857	37	303	-			
Manhole	Gordon St	1956	100	2056	7,857	37	303	-			



Manholes								
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Gordon St	1956	100	2056	7,857	37	303	-
Manhole	Graff Ave	1967	100		7,857	48	256	-
Manhole	Graff Ave	1967	100		7,857 7,857	48	256	-
Manhole Manhole	Graff Ave Graff Ave	1967 1967	100 100		7,857	48 48	256 256	-
Manhole	Graff Ave	1967	100		7,857	48	256	-
Manhole	Graff Ave	1967	100	2067	7,857	48	256	_
Manhole	Graff Ave	1967	100		7,857	48	256	-
Manhole	Graff Ave	1971 1971	100		7,857 7,857	52 52	244	-
Manhole Manhole	Graff Ave Graff Ave	1971	100 100		7,857	52	244 242	-
Manhole	Graham Cres	1976	100		7,857	57	232	-
Manhole	Graham Cres	1976	100	2076	7,857	57	232	
Manhole	Graham Cres	1976			7,857	57	232	-
Manhole Manhole	Graham Cres Graham Cres	1976 1976	100 100		7,857 7,857	57 57	232	-
Manhole	Graham Cres	1976			7,857	57	232 232	-
Manhole	Graham Cres	1976			7,857	57	232	-
Manhole	Grange St	1913	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Grange St	1913	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Grange St	1913	100		7,857 7,857	0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Grange St Grange St	1913 1913	100 100		7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
Manhole	Grange St	1913			7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Grant St	1982	100		7,857	63	220	-
Manhole	Grant St	2003	100		7,857	84	194	-
Manhole	Greenberg PI	2005	100		7,857	86	192	-
Manhole Manhole	Greenberg Pl	2005 2006			7,857 7,857	86 87	192 191	-
Manhole	Greenwood Dr	1976	100		7,857	57	232	
Manhole	Greenwood Dr	1976			7,857	57	232	-
Manhole	Greenwood Dr	1976	100	2076	7,857	57	232	-
Manhole	Greenwood Dr	1977	100		7,857	58	230	-
Manhole	Greenwood Dr	1977	100 100		7,857 7,857	58	230	-
Manhole Manhole	Greenwood Dr Greenwood Dr	1977 1977	100		7,857	58 58	230 230	-
Manhole	Greenwood Dr	1977	100		7,857	58	230	-
Manhole	Greenwood Dr	1987	100	2087	7,857	68	212	-
Manhole	Greenwood Dr	1987	100		7,857	68	212	-
Manhole	Greenwood Dr	1987	100		7,857 7,857	68	212	-
Manhole Manhole	Greenwood Dr Greenwood Dr	1987 1987	100 100		7,857	68 68	212 212	-
Manhole	Greenwood Dr	1987	100		7,857	68	212	-
Manhole	Gregory Cres	2001	100	2101	7,857	82	196	-
Manhole	Gregory Cres	2001	100		7,857	82	196	-
Manhole	Gregory Cres	2001	100		7,857 7,857	82	196	-
Manhole Manhole	Gregory Cres Gregory Cres	2001 2001	100 100		7,857	82 82	196 196	-
Manhole	Gregory Cres	2001	100		7,857	82	196	-
Manhole	Gregory Cres	2001	100	2101	7,857	82	196	-
Manhole	Griffith Rd	1976	100		7,857	57	232	-
Manhole Manhole	Griffith Rd	1976			7,857 7,857	57 57	232	-
Manhole Manhole	Griffith Rd Griffith Rd	1976 1979	100 100		7,857	57 60	232 226	-
Manhole	Griffith Rd	1979	100		7,857	60	226	-
Manhole	Griffith Rd	1979	100		7,857	60	226	-
Manhole	Griffith Rd	1979			7,857	60	226	-
Manhole	Griffith Rd	1987	100		7,857 7,857	68	212	-
Manhole Manhole	Griffith Rd Griffith Rd	1987 1987	100 100		7,857 7,857	68 68	212 212	-
Manhole	Griffith Rd	2005				86	192	<u>-</u>
Manhole	Griffith Rd	2005			7,857	86	192	-
Manhole	Griffith Rd	2005	100		7,857	86	192	-
Manhole	Griffith Rd	2005	100			86	192	-
Manhole Manhole	Griffith Rd W Griffith Rd W	1991 1991	100 100		7,857 7,857	72 72	207 207	-
Manhole	Griffith Rd W	1991	100		7,857	72 72	207	-
Manhole	Griffith Rd W	2006				87	191	-
Manhole	Guelph St	1980			7,857	61	224	-
Manhole	Guelph St	1980	100	2080	7,857	61	224	-



Manholes								
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Guelph St	1980	100	2080	7,857	61	224	-
Manhole	Guelph St	1980	100	2080	7,857	61	224	-
Manhole	Guthrie Ave	1948	100	2048		29	360	-
Manhole	Hahn Ct	1991	100		7,857	72	207	-
Manhole	Haig St	1950		2050		31	343	-
Manhole	Haig St	1950	100			31	343	-
Manhole Manhole	Haig St Haig St	1950 1979				31 60	343 226	
Manhole	Haig St	1979				60	226	
Manhole	Harrison St	2006				87	191	_
Manhole	Harrison St	2006				87	191	-
Manhole	Harrison St	2006	100	2106	7,857	87	191	-
Manhole	Henry Dr	1987	100	2087	7,857	68	212	-
Manhole	Henry Dr	1988	100	2088		69	211	-
Manhole	Hesson St	1948				29	360	
Manhole	Hesson St	1948		2048		29	360	
Manhole Manhole	Hibernia St Hibernia St	1923	100			4	suggested for 10 year capital forecast	7,857
Manhole Manhole	Hibernia St	1930 1962	100		·	11 43	803 274	
Manhole	Hibernia St	1962	100		·	43	274	-
Manhole	Hibernia St	1966				47	259	
Manhole	Hibernia St	1966	100			47	259	-
Manhole	Hibernia St	1966	100	2066	7,857	47	259	-
Manhole	Hibernia St	1966	1			47	259	-
Manhole	Hibernia St	1972	100		7,857	53	242	-
Manhole	Hibernia St	1975				56	235	-
Manhole Manhole	Hibernia St Hibernia St	1988		2088		69 81	211 197	-
Manhole Manhole	Hibernia St	2000	100			81	197	-
Manhole	Hibernia St	2000				81	197	-
Manhole	Hibernia St	2000			·	81	197	-
Manhole	Hibernia St	2000	100			81	197	-
Manhole	Hibernia St	2000	100	2100		81	197	-
Manhole	Hibernia St	2007	100		7,857	88	190	
Manhole	Hibernia St	2007	100		7,857	88	190	
Manhole	Hickory Lane	1968	100			49	253	
Manhole Manhole	Hickory Lane High St	1968 1915				49	253 suggested for 10 year capital forecast	7,857
Manhole	High St	1915				0	suggested for 10 year capital forecast	7,857
Manhole	Hillcrest Dr	1929				10	suggested for 10 year capital forecast	7,857
Manhole	Hillcrest Dr	1951	100		7,857	32	335	
Manhole	Hillcrest Dr	1958	100	2058	7,857	39	292	-
Manhole	Home St	1918	100	2019		0	suggested for 10 year capital forecast	7,857
Manhole	Home St	1918	1			0	suggested for 10 year capital forecast	7,857
Manhole	Home St	1923	1			4	suggested for 10 year capital forecast	7,857
Manhole Manhole	Home St	1964 1965				45 46	266 263	
Manhole	Home St Home St	1965	1		·	46	263	
Manhole	Home St	1965	1			46	263	
Manhole	Home St	1965	100			46	263	
Manhole	Home St	1965				46	263	
Manhole	Home St	1965	100	2065		46	263	-
Manhole	Home St	1965	1			46	263	
Manhole	Home St	1965	1			46	263	
Manhole Manhole	Home St	1983				64	219	
Manhole Manhole	Home St Home St	1998 2004				79 85	199 193	
Manhole	Home St	2004	1			85	193	-
Manhole	Home St	2009				90	189	
Manhole	Home St	2012	100			93	187	_
Manhole	Home St	2012	1			93	187	-
Manhole	Hossie Terr	2004	1			85	193	-
Manhole	Hossie Terr	2004				85	193	
Manhole	Hossie Terr	2004				85	193	
Manhole	Hossie Terr	2004	100	2104	7,857	85	193	-
		1	1					
Manhole	Hossie Terr	2004	100	2104		85	193	
Manhole Manhole	Hossie Terr Hossie Terr	2004 2004	100 100	2104 2104	7,857	85	193	-
Manhole	Hossie Terr	2004	100 100 100	2104 2104 2104	7,857 7,857			-



Manholes								
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Humber St	1979	100	2079	7,857	60	226	-
Manhole	Humber St	2005	100	2105	7,857	86	192	-
Manhole	Huntingdon Ave	1923	100	2023	7,857	4	suggested for 10 year capital forecast	7,857
Manhole	Huntingdon Ave	1948	100		7,857	29	360	
Manhole	Huntingdon Ave	1962	100		7,857	43	274	-
Manhole	Huntingdon Ave	1962	100		7,857 7,857	43	274	-
Manhole Manhole	Huntingdon Ave Huntingdon Ave	1962 1962	100		7,857	43 43	274 274	-
Manhole	Huntingdon Ave	1962	100		7,857	45	263	
Manhole	Huntingdon Ave	1965	100		7,857	46	263	
Manhole	Huntingdon Ave	2005	100		7,857	86	192	
Manhole	Huntingdon Ave	2007	100	2107	7,857	88	190	-
Manhole	Huron St	1906	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Huron St	1906	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Huron St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
Manhole	Huron St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
Manhole Manhole	Huron St	1921 1921	100		7,857 7,857	2	suggested for 10 year capital forecast	7,857
Manhole	Huron St	1921	100 100		7,857	2	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
Manhole	Huron St	1921	100		7,857	10	suggested for 10 year capital forecast	7,857
Manhole	Huron St	1954	100		7,857	35	314	-
Manhole	Huron St	1960	100		7,857	41	283	-
Manhole	Huron St	1960	100	2060	7,857	41	283	-
Manhole	Huron St	1960	100		7,857	41	283	-
Manhole	Huron St	1960	100		7,857	41	283	
Manhole	Huron St	1960	100		7,857	41	283	
Manhole Manhole	Huron St Huron St	1960	100		7,857 7,857	41	283	
Manhole Manhole	Huron St	1960 1960	100			41 41	283 283	
Manhole	Huron St	1960			7,857	41	283	
Manhole	Huron St	1966				47	259	
Manhole	Huron St	1984	100		7,857	65	217	-
Manhole	Hyde Rd	1978	100	2078	7,857	59	228	-
Manhole	Hyde Rd	1999	100		7,857	80	198	
Manhole	Hyde Rd	1999	100		7,857	80	198	
Manhole	Hyde Rd	1999	100		7,857 7,857	80	198	
Manhole Manhole	Hyde Rd Hyde Rd	1999 1999	100 100		7,857	80 80	198 198	
Manhole	Inverness St	2007	100		7,857	88	190	
Manhole	Inverness St	2007	100		7,857	88	190	
Manhole	Inverness St	2007	100		7,857	88	190	-
Manhole	James St	1993	100	2093	7,857	74	204	-
Manhole	Jarvis St	2008	100		7,857	89	190	-
Manhole	Joffre St	1954	100		7,857	35	314	-
Manhole	Joffre St	2016			7,857	97	184	-
Manhole Manhole	Joffre St Joffre St	2016 2016	100 100		7,857 7,857	97 97	184 184	
Manhole Manhole	John St N	1985	100		7,857	66	215	
Manhole	John St N	1985	100		7,857	66	215	
Manhole	John St N	1985	100		7,857	66	215	
Manhole	John St N	1985	100		7,857	66	215	
Manhole	John St N	1985	100	2085	7,857	66	215	-
Manhole	John St N	1985	100		7,857	66	215	-
Manhole	John St N	1986	100		7,857	67	214	-
Manhole Manhole	John St N	2004	100		7,857 7,857	85 85	193	
Manhole Manhole	John St N John St N	2004 2004	100 100		7,857	85 85	193 193	
Manhole Manhole	John St N	2004	100		7,857	85 85	193	
Manhole	John St S	1919				0.0	suggested for 10 year capital forecast	7,857
Manhole	John St S	1956	100		7,857	37	303	
Manhole	John St S	1956			7,857	37	303	
Manhole	John St S	1956				37	303	-
Manhole	John St S	1977	100		7,857	58	230	
Manhole	John St S	1977	100		7,857	58	230	
Manhole	John St S	1977	100		7,857	58	230	
Manhole	John St S	1987	100		7,857	68	212	
Manhole	John St S	1987	100		7,857	68	212	
Manda - La	Jahre Ot O	100-		~~~	7 057	^-		•
Manhole Manhole	John St S John St S	1987 1987	100 100		7,857 7,857	68 68	212 212	



Marchole   Since   Francis   Charles	Manholes								
Marmonic   John St S   1997   100   2097   7.857   08   217	Asset	Street			_	Replacement		Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Martine	Manhole	John St S	1987	100	2087	7,857	68	212	-
Marchole   John St S   1987   000   2097   7.857   98   212	Manhole	John St S	1987	100	2087	·	68	212	-
Marchole   John St S   1997   100   2007   7,567   68   212   Marchole   John St S   2004   100   2104   7,787   86   193   Marchole   John St S   2004   100   2104   7,787   86   113   Marchole   John St S   2004   100   2104   7,787   86   113   Marchole   John St S   2004   100   2104   7,787   86   113   Marchole   John St S   2005   100   2104   7,787   86   113   Marchole   John St S   2005   100   2106   7,787   87   88   113   Marchole   John St S   2006   100   2106   7,877   40   100   100   2006   7,877   40   223   Marchole   John St S   2006   100   2006   7,877   40   223   Marchole   John St S   2008   100   2008   7,877   40   223   Marchole   John Wally Order   1980   100   2006   7,877   40   223   Marchole   John Wally Order   1980   100   2006   7,877   40   223   Marchole   John Wally Order   1980   100   2006   7,877   40   223   Marchole   John Wally Order   1980   100   2006   7,877   40   223   Marchole   John Wally Order   1980   100   2006   7,877   40   223   Marchole   John Wally Order   1980   100   2008   7,877   40   223   Marchole   John Wally Order   1980   100   2008   7,877   40   223   Marchole   John Wally Order   1980   100   2008   7,877   40   223   Marchole   John Wally Order   1980   100   2008   7,877   40   223   Marchole   John Wally Order   1980   100   2008   7,877   40   223   Marchole   John Wally Order   1980   100   2008   7,877   40   223   Marchole   John Wally Order   1980   100   2008   7,877   40   223   Marchole   John Wally Order   1980   100   2007   7,877   40   223   Marchole   John Wally Order   1980   100   2007   7,877   40   223   Marchole   John Wally Order   1980   100   2007   7,877   40   223   Marchole   John Wally Order   1980   100   2007   7,877   40   223   Marchole   John Wally Order   1980   100   2007   7,877   40   223   Marchole   John Wally Order   1980   100   2007   7,877   40   224   Marchole   John Wally Order   1980   100   2007   7,877   40   224   Marchole   John Wally Order   1980   100   2007   7,877   40   200   200   2	Manhole								
Manchel									
Marcheo									
Manched			1			·			
Marchele   Jones St   1906   100   2019   7.657   0   suggested for 10 year capital foreign   Marchele   Kappele Crid   1909   100   2008   7.657   49   223   Marchele   Kathyn Criss   1909   100   2008   7.657   49   223   Marchele   Kathyn Criss   1909   100   2008   7.657   49   223   Marchele   Kathyn Criss   1909   100   2008   7.657   49   223   Marchele   Kathyn Criss   1909   100   2008   7.657   49   225   Marchele   Kathyn Criss   1909   100   2008   7.657   49   225   Marchele   Kathyn Criss   1908   100   2008   7.657   49   225   Marchele   Kathyn Criss   1908   100   2008   7.657   49   225   Marchele   Kathyn Criss   1908   100   2008   7.657   49   225   Marchele   Kathyn Criss   1908   100   2008   7.657   49   225   Marchele   Kathyn Criss   1908   100   2008   7.657   49   225   Marchele   Kathyn Criss   1908   100   2008   7.657   49   225   Marchele   Kathyn Criss   1909   100   2008   7.657   49   225   Marchele   Kathyn Criss   1909   100   2008   7.657   49   225   Marchele   Kathyn Criss   1909   100   2008   7.657   49   225   Marchele   Kathyn Criss   1909   100   2008   7.657   49   225   Marchele   Kathyn Criss   1909   100   2008   7.657   49   225   Marchele   Kathyn Criss   1909   100   2008   7.857   49   225   Marchele   Kamp Criss   1909   100   2008   7.857   49   225   Marchele   Kamp Criss   1909   100   2007   7.657   49   225   Marchele   Kamp Criss   1907   100   2007   7.657   49   226   Marchele   Kamp Criss   1907   100   2007   7.657   49   226   Marchele   Kamp Criss   1907   100   2007   7.657   49   226   Marchele   Kamp Criss   1907   100   2007   7.657   49   226   Marchele   Kamp Criss   1907   100   2007   7.657   49   226   Marchele   Kamp Criss   1907   100   2007   7.657   49   226   Marchele   Kamp Criss   1907   100   2007   7.657   49   226   Marchele   Kamp Criss   1907   100   2007   7.657   49   226   Marchele   Kamp Criss   1907   100   2007   7.657   59   226   220   Marchele   Kamp Criss   1907   100   2007   7.657   59   220   Marchele   Kamp Cr									
Manchele   Sones St   2006   100   2/108   7.857   87   191   191   Manchele   Kashryn Cres   1986   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1988   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1988   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1988   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1988   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1988   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1988   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1988   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1988   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1988   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1989   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1990   100   2/088   7.857   49   2/23   Manchele   Kashryn Cres   1990   100   2/098   7.857   49   2/23   Manchele   Kashryn Cres   1990   100   2/098   7.857   49   2/23   Manchele   Kashryn Cres   1990   100   2/098   7.857   49   2/23   2/20   Manchele   Kashryn Cres   1990   100   2/208   7.857   49   2/20   2/20   Manchele   Kashryn Cres   1990   100   2/208   7.857   49   2/20   2/20   Manchele   Kasrry Cres   1990   100   2/209   7.857   49   2/20   2/20   Manchele   Karry Cres   1997   100   2/209   7.857   49   2/20   2/20   Manchele   Karry Cres   1997   100   2/209   7.857   49   2/20   2/20   Manchele   Karry Cres   1997   100   2/209   7.857   49   2/20   2/20   Manchele   Karry Cres   1997   100   2/209   7.857   49   2/20							0		7,857
Marchele   Kappele Crd   1986   100   2068   7.857   49   225   Manchele   Kathryn Cres   1988   100   2068   7.857   49   225   Manchele   Kathryn Cres   1988   100   2068   7.857   49   225   Manchele   Kathryn Cres   1989   100   2068   7.857   49   225   Manchele   Kathryn Cres   1990   100   2068   7.857   49   225   Manchele   Kathryn Cres   1990   100   2068   7.857   49   225   Manchele   Kathryn Cres   1990   100   2068   7.857   49   225   Manchele   Kathryn Cres   1990   100   2068   7.857   49   225   Manchele   Kathryn Cres   1990   100   2088   7.857   49   225   Manchele   Kathryn Cres   1990   100   2088   7.857   49   225   Manchele   Kathryn Cres   1972   100   2089   7.857   49   225   Manchele   Kathryn Cres   1972   100   2089   7.857   49   225   Manchele   Kathryn Cres   1972   100   2088   7.857   7.97   100   2088   7.857   7.97   100   2088   7.857   7.97   100   2088   7.857   7.97   100   2088   7.857   7.97   100   2088   7.857   49   226   226   Manchele   Karny Cres   1987   100   2089   7.857   48   226   Manchele   Karny Cres   1987   100   2087   7.857   48   228   Manchele   Karny Cres   1987   100   2087   7.857   48   228   Manchele   Karny Cres   1987   100   2087   7.857   48   228   Manchele   Karny Cres   1987   100   2087   7.857   48   228   Manchele   Karny Cres   1987   100   2087   7.857   48   228   Manchele   Karny Cres   1987   100   2087   7.857   48   228   Manchele   Karny Cres   1987   100   2087   7.857   48   228   Manchele   Karny Cres   1987   100   2087   7.857   48   228   Manchele   Karny Cres   1987   100   2087   7.857   48   228   Manchele   Karny Cres   1987   100   2087   7.857   48   228   228   Manchele   Karny Cres   1987   100   2087   7.857   58   229   Manchele   Karny Cres   1987   100   2077   7.857   58   229   Manchele   Karny Cres   1987   100   2077   7.857   58   229   Manchele   Karny Cres   1987   100   2077   7.857   58   229   Manchele   Karny Cres   1989   100   2088   7.857   79   100   100   100   100   100   100   100   100							87		-
Machrole Kathyn Cres 1966 100 2006 7,857 49 233 Machrole Kathyn Cres 1968 100 2006 7,857 49 233 Machrole Kathyn Cres 1968 100 2006 7,857 49 233 Machrole Kathyn Cres 1968 100 2006 7,857 49 233 Machrole Kathyn Cres 1968 100 2006 7,857 49 233 Machrole Kathyn Cres 1968 100 2006 7,857 49 233 Machrole Kathyn Cres 1968 100 2006 7,857 49 233 Machrole Kathyn Cres 1968 100 2006 7,857 49 233 Machrole Kathyn Cres 1969 100 2007 7,857 49 233 Machrole Kathyn Cres 1970 100 2007 7,857 49 233 Machrole Kathyn Cres 1970 100 2007 7,857 49 233 Machrole Kathyn Cres 1970 100 2007 7,857 49 233 Machrole Kathyn Cres 1970 100 2007 7,857 49 220 Machrole Kathyn Cres 1970 100 2007 7,857 49 220 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1970 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1977 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1977 100 2007 7,857 49 200 200 Machrole Kathyn Cres 1977 100 2007 7,857 89 200 200 Machrole Kathyn Cres 1977 100 2007 7,857 89 200 200 Machrole Kathyn Cres 1977 100 2007 7,857 89 200 200 Machrole Kathyn Cres 1977 100 2007 7,857 89 200 200 Machrole Kathyn Cres 1977 100 2007 7,857 89 200 200 Machrole Kathyn Cres 1977 100 2007 7,857 89 200 200 Machrole Kathyn Cres 1977 100 2007 7,857 89 200 200 Machrole Kathyn Cres 1977 100 200 200 7,857 90 200 200 Machrole Kathyn Cres 1977 100 200 200 7,857 90 200 200 Machrole Kathyn Cres 1977 100 200 200 7,857 90 200 200 Machrole Kathyn Cres 1977 100 200 200 7,857 90 200 200 Machrole Kathyn Cres 1977 100 200 200 7,857 90 200 200 200 200 7,857 90 200 200 200 200 7,857 90 200 200 200 200 7,857 90	Manhole	Kappele Crcl	1	100			49	253	-
Marchola   Kathyrn Cres   1968   100   2008   7,857   49   253	Manhole	Kathryn Cres	1968	100	2068		49	253	-
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Manholo         Kemp Cres         1967         100         2087         7.867         48         258           Manhole         Kemp Cres         1967         100         2067         7.857         48         256           Manhole         Kenner Cres         1977         100         2077         7.857         58         230           Manhole         Kenner Cres         1977         100         2077         7.857         58         230           Manhole         Kenner Cres         1977         100         2077         7.857         58         230           Manhole         Kenner Cres         1977         100         2077         7.857         58         230           Manhole         Kenn St         1997         100         2077         7.857         58         230           Manhole         Kent St         1915         100         2019         7.857         70         suggested for 10 year capital forecast           Manhole         Killorar Cres         1993         100         2093         7.857         74         204           Manhole         Killorar Cres         1993         100         2093         7.857         74         204 <td></td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		· ·							
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Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         King St         1993         100         2023         7,857         74         204           Manhole         King St         1992         100         2026         7,857         6         suggested for 10 year capital forecast           Manhole         King St         1998         100         2098         7,857         61         suggest	Manhole	Kent St	1915	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         King St         1921         100         2021         7,857         2         suggested for 10 year capital forecast           Manhole         King St         1998         100         2080         7,857         61         suggested for 10 year capital forecast           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857 <t< td=""><td>Manhole</td><td>Kent St</td><td>2007</td><td>100</td><td>2107</td><td>7,857</td><td>88</td><td>190</td><td>-</td></t<>	Manhole	Kent St	2007	100	2107	7,857	88	190	-
Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         King St         1992         100         2025         7,857         6         suggested for 10 year capital forecast           Manhole         King St         1998         100         2080         7,857         61         224           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228	Manhole	Killoran Cres		100			74	204	-
Marnhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         King St         1993         100         2093         7,857         74         204           Manhole         King St         1925         100         2025         7,857         6         suggested for 10 year capital forecast           Manhole         King St         1988         100         2080         7,857         6         suggested for 10 year capital forecast           Manhole         King St         1998         100         2088         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         Lakeside Dr         1978         100         2078         7,857         59 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td>									-
Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         King St         1921         100         2021         7,857         2         suggested for 10 year capital forecast           Manhole         King St         1925         100         2025         7,857         6         suggested for 10 year capital forecast           Manhole         King St         1980         100         2080         7,857         61         suggested for 10 year capital forecast           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Laurier St         1914         100         2078 <t< td=""><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>			1						-
Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         King St         1921         100         2021         7,857         2         suggested for 10 year capital forecast           Manhole         King St         1925         100         2025         7,857         6         suggested for 10 year capital forecast           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         Lightsoure         1978         100         2078         7,857         89         190           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Layrier St         1914         100         2078         7,857         59									-
Manhole         Killoran Cres         1993         100         2093         7,857         74         204           Manhole         King St         1921         100         2021         7,857         2         suggested for 10 year capital forecast           Manhole         King St         1925         100         2025         7,857         6         suggested for 10 year capital forecast           Manhole         King St         1980         100         2080         7,857         61         suggested for 10 year capital forecast           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7			1	i					-
Manhole         King St         1921         100         2021         7,857         2 suggested for 10 year capital forecast           Manhole         King St         1925         100         2025         7,857         6 suggested for 10 year capital forecast           Manhole         King St         1980         100         2080         7,857         61         224           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2078         7,857         59         199           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lawire St         1914         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228			1						-
Manhole         King St         1925         100         2025         7,857         6         suggested for 10 year capital forecast           Manhole         King St         1980         100         2080         7,857         61         224           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         Lightsol         208         100         2078         7,857         89         190           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228							2		7,857
Manhole         King St         1980         100         2080         7,857         61         224           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         2008         100         2078         7,857         89         190           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lightboure Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole<			1				6		7,857
Manhole         King St         1998         100         2098         7,857         79         199           Manhole         King St         2008         100         2108         7,857         89         190           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Laurier St         1914         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228			1	i			61		
Manhole         King St         2008         100         2108         7,857         89         190           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Laurier St         1914         100         2019         7,857         0         suggested for 10 year capital forecast           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59	Manhole		1998	100	2098	7,857	79	199	-
Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Laurier St         1914         100         2019         7,857         0         suggested for 10 year capital forecast           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1993         100         2078         7,857         74	Manhole		1998	100	2098		79	199	-
Manhole         Lakeside Dr         1978         100         2078         7,857         59         228           Manhole         Laurier St         1914         100         2019         7,857         0 suggested for 10 year capital forecast           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1993         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1993         100         2093         7,857         74	Manhole	King St							
Manhole         Laurier St         1914         100         2019         7,857         0         suggested for 10 year capital forecast           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1993         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         2000         100         2100         7,857									
Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         2000         100         2100         7,857         81         197							_		
Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         2000         100         2100         7,857         81         197           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195									7,857
Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         2000         100         2100         7,857         81         197           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195			1						
Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         2000         100         2100         7,857         81         197           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195			1						
Manhole         Lightbourne Ave         1978         100         2078         7,857         59         228           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         2000         100         2100         7,857         81         197           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195									
Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         2000         100         2100         7,857         81         197           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195		1	1						
Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         2000         100         2100         7,857         81         197           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195			1						-
Manhole         Lightbourne Ave         1993         100         2093         7,857         74         204           Manhole         Lightbourne Ave         2000         100         2100         7,857         81         197           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195									-
Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195			1						-
Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195	Manhole	Lightbourne Ave	2000	100	2100		81	197	-
Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195	Manhole	Lightbourne Ave	2002	100	2102		83	195	-
Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195			ì						
Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195									
Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195           Manhole         Lightbourne Ave         2002         100         2102         7,857         83         195		† *							
Manhole Lightbourne Ave 2002 100 2102 7,857 83 195			1						
			1						
UMBODDIE HINDED LT I 19751 100 20751 7.0071 561 99E1			1						
Manhole Linden Ct 1975 100 2075 7,857 56 235 235 235 235 235 232 235 237 237 237 237 237 237 237 237 237 237	Manhole Manhole		1975				56 57	235	



Manholes									
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast	
Manhole	Linden Ct	1976	100	2076	7,857	57	232	-	
Manhole	Linton Ave	2008	100	2108	7,857	89	190	-	
Manhole	Linton Ave	2008	100		7,857	89	190		
Manhole	Linton Ave	2008	100		7,857	89	190		
Manhole	Linton Ave	2008	100		7,857	89	190		
Manhole Manhole	Little Thames Pl	2011	100		7,857 7,857	92 92	187 187	-	
Manhole Manhole	Little Thames PI Little Thames PI	2011 2011	100		7,857	92	187	<u>-</u>	
Manhole	Little Thames PI	2011	100		7,857	92	187	-	
Manhole	Little Thames PI	2011	100		7,857	92	187	-	
Manhole	Little Thames PI	2011	100		7,857	92	187	-	
Manhole	Little Thames PI	2011	100	2111	7,857	92	187	-	
Manhole	Lloyd Ct	1991	100		7,857	72	207	-	
Manhole	Long Dr	1998	100		7,857	79	199		
Manhole	Long Dr	1998	100		7,857	79	199		
Manhole	Long Dr	1998	100		7,857 7,857	79	199		
Manhole Manhole	Long Dr Long Dr	1998 1998	100 100		7,857	79 79	199 199		
Manhole	Long Dr	1998	100		7,857	79	199		
Manhole	Long Dr	1998	100		7,857	79	199		
Manhole	Long Dr	1998	100		7,857	79	199		
Manhole	Long Dr	1998	100		7,857	79	199		
Manhole	Long Dr	1998	100		7,857	79	199		
Manhole	Long Dr	1998	100		7,857	79	199		
Manhole	Long Dr	1998	100	2098	7,857	79	199	-	
Manhole	Long Dr	1998	100	2098	7,857	79	199	-	
Manhole	Long Dr	1998	100		7,857	79	199	-	
Manhole	Long Dr	1998	100		7,857	79	199		
Manhole	Long Dr	1998			7,857	79	199		
Manhole	Lorne Ave E	1964	100		7,857	45	266		
Manhole	Lorne Ave E	1964	100		7,857 7,857	45	266		
Manhole Manhole	Lorne Ave E	1964 1964	100 100		7,857	45 45	266 266		
Manhole Manhole	Lorne Ave E	1964	100		7,857	45	266		
Manhole	Lorne Ave E	1964	100		7,857	45	266		
Manhole	Lorne Ave E	1964	100		7,857	45	266		
Manhole	Lorne Ave E	1964	100		7,857	45	266		
Manhole	Lorne Ave E	1964	100	2064	7,857	45	266	-	
Manhole	Lorne Ave E	1964	100	2064	7,857	45	266	-	
Manhole	Lorne Ave E	1964	100	2064	7,857	45	266	-	
Manhole	Lorne Ave E	1964	100	2064	7,857	45	266	-	
Manhole	Lorne Ave E	1964	100		7,857	45	266		
Manhole	Lorne Ave E	1964	100		7,857	45	266		
Manhole	Lorne Ave E	1964	100		7,857 7,857	45	266		
Manhole Manhole	Lorne Ave E	1964 1975	100 100		7,857	45 56	266 235		
Manhole Manhole	Lorne Ave E	1975	100		7,857	56	235		
Manhole	Lorne Ave E	1987	100		7,857	68	212		
Manhole	Lorne Ave E	1987	100		7,857	68	212		
Manhole	Lorne Ave E	1991	100		7,857	72	207		
Manhole	Lorne Ave E	1996			7,857	77	201	-	
Manhole	Lorne Ave E	1996	100	2096	7,857	77	201	-	
Manhole	Lorne Ave E	1996			7,857	77	201	-	
Manhole	Lorne Ave E	1996	100		7,857	77	201	-	
Manhole	Lorne Ave E	1996			7,857	77	201	-	
Manhole	Lorne Ave E	1996	100		7,857	77	201	-	
Manhole	Lorne Ave E	1997	100		7,857	78	200	1	
Manhole Manhole	Lorne Ave E	1999	100		7,857 7,857	80	198		
Manhole Manhole	Lorne Ave W Lorne Ave W	1955 1955	100 100		7,857	36 36	308 308		
Manhole	Lorne Ave W	1955			7,857	36	308		
Manhole	Lorne Ave W	1955				39	292		
Manhole	Lorne Ave W	1938	100		7,857	68	212		
Manhole	Lorne Ave W	1987	100		7,857	68	212	1	
Manhole	Lorne Ave W	1987	100		7,857	68	212		
Manhole	Lorne Ave W	1997	100		7,857	78	200		
Manhole	Lorne Ave W	1997	100		7,857	78	200		
Manhole	Lorne Ave W	1997	100		7,857	78	200		
Manhole	Lorne Ave W	2008	100	2108	7,857	89	190	-	
			100		7,857		suggested for 10 year capital forecast	7,857	



	_	Manholes									
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast			
Manhole	Louise St	1923	100	2023	7,857	4	suggested for 10 year capital forecast	7,857			
Manhole	Louise St	1965	100	2065	7,857	46	263	-			
Manhole	Louise St	1976	100		7,857	57	232	-			
Manhole	Louise St	1976	100		7,857	57	232	-			
Manhole	Louise St	1983	100		7,857	64	219	-			
Manhole Manhole	Louise St	1986	100		7,857 7,857	67	214	-			
Manhole Manhole	Louise St Louise St	2006 2006	100 100		7,857	87 87	191 191	-			
Manhole	Louise St	2006	100		7,857	87	191	_			
Manhole	Magwood Ct	1979	100		7,857	60	226	_			
Manhole	Magwood Ct	1979	100		7,857	60	226	-			
Manhole	Makins St	1985	100	2085	7,857	66	215	-			
Manhole	Makins St	1985	100		7,857	66	215	-			
Manhole	Manhole-0200541-	1906	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0200541-	1955	100		7,857	36	308	-			
Manhole Manhole	Manhole-0301198	1901 1929	100 100		7,857 7,857	10	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0301198 Manhole-0301199	1929	100		7,857	10	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857			
Manhole	Manhole-0301199	1901	100		7,857	10	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0303041	1906	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0303041	1963	100		7,857	44	270	-			
Manhole	Manhole-0303041-	1906	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0303041-	1963	100	2063	7,857	44	270	_			
Manhole	Manhole-0303042	1900	100	2019	7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0303042	1929	100		7,857	10	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0303043	1901	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0303043	1929	100		7,857	10	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0303044	1901	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0303044	1929			7,857 7,857	10	, ,	7,857			
Manhole	Manhole-0303046-	1900	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole Manhole	Manhole-0303046- Manhole-0303046-	1900 1900	100 100		7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857			
Manhole	Manhole-0303048	1901	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Manhole-0303048	1929	100		7,857	10	suggested for 10 year capital forecast	7,857			
Manhole	Manning Ave	1914	100		7,857	0	suggested for 10 year capital forecast	7,857			
Manhole	Maple Ave	1966	100	2066	7,857	47	259	-			
Manhole	Maple Ave	1966	100	2066	7,857	47	259	-			
Manhole	Maple Ave	1966	100	2066	7,857	47	259	-			
Manhole	Maple Ave	1966	100		7,857	47	259	-			
Manhole	Maple Ave	1975	100		7,857	56	235	-			
Manhole	Maple Ave	1975	100		7,857	56	235	-			
Manhole	Maple Ave	1975	100		7,857	56	235	-			
Manhole	Maple Ave	1975	100		7,857 7,857	56	235	-			
Manhole Manhole	Maple Ave Maple Ave	1975 1975	100 100		7,857	56 56	235 235	<u>-</u>			
Manhole	Maple Ave	1975	100		7,857	56	235	-			
Manhole	Maple Ave	1975	100		7,857	56	235	_			
Manhole	Maple Ave	1975	100		7,857	56	235	-			
Manhole	Maple Ave	1988	100	2088	7,857	69	211	-			
Manhole	Maple Ave	1992	100	2092	7,857	73	206	-			
Manhole	Martin St	1956	100		7,857	37	303	-			
Manhole	Matilda St	1960	100		7,857	41	283	-			
Manhole	Matilda St	1968	100			49	253	-			
Manhole	Matilda St	1968	100		7,857	49	253	-			
Manhole Manhole	Matilda St	1968			7,857 7,857	49	253	-			
Manhole Manhole	Matilda St Matilda St	1968 1968	100 100		7,857	49 49	253 253	-			
Manhole Manhole	Matilda St	1968	100		7,857	54	253	-			
Manhole	Matilda St	1973	100		7,857	72	239	-			
Manhole	Matilda St	1991	100		7,857	72	207				
Manhole	Matilda St	1991	100		7,857	72	207	-			
Manhole	Matilda St	1991	100		7,857	72		1			
Manhole	Matilda St	1991	100		7,857	72	207	-			
Manhole	Matilda St	1991	100		7,857	72	207	-			
Manhole	Matilda St	2000	100	2100		81	197	-			
Manhole	Matilda St	2000	100			81	197	-			
Manhole	Matilda St	2015	100			96	185				
Manhole	Mayberry PI	1968				49	253				
	Mccarthy Rd E	1967	100	2067	7,857	48	256	_			
Manhole Manhole	Mccarthy Rd E	1967	100		7,857	48					



Manholes									
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast	
Manhole	Mccarthy Rd E	1967	100	2067	7,857	48	256	-	
Manhole	Mccarthy Rd E	1967	100	2067	7,857	48	256	-	
Manhole	Mccarthy Rd E	1998	100	2098	7,857	79	199	-	
Manhole	Mccarthy Rd W	1976			7,857	57	232	-	
Manhole	Mccarthy Rd W	1976	100	2076	7,857	57	232	-	
Manhole	Mccarthy Rd W	1976	100		7,857 7,857	57	232	-	
Manhole Manhole	Mccarthy Rd W Mccarthy Rd W	1987 1987	100 100		7,857	68 68	212 212	-	
Manhole	Mccarthy Rd W	1991	100		7,857	72	207		
Manhole	Mccarthy Rd W	1991	100		7,857	72	207	_	
Manhole	Mccarthy Rd W	2007	100		7,857	88	190	-	
Manhole	Mccarthy Rd W	2007	100	2107	7,857	88	190	-	
Manhole	Mccarthy Rd W	2007	100	2107	7,857	88	190	-	
Manhole	Mcdonald St	1956	100	2056	7,857	37	303	-	
Manhole	Mcdonald St	1956	100		7,857	37	303	-	
Manhole	Mcfarlane St	1923	100	2023	7,857	4	suggested for 10 year capital forecast	7,857	
Manhole	Mcfarlane St	1955	100	2055	7,857 7,857	36	308	-	
Manhole Manhole	Mcfarlane St Mcfarlane St	1965 1968	100 100		7,857	46 49	263 253	-	
Manhole	Mcfarlane St	1968	100		7,857	49	253	-	
Manhole	Mcfarlane St	1968	100		7,857	49	253	-	
Manhole	Mcfarlane St	1968	100		7,857	49	253	-	
Manhole	Mcgregor St	1987	100	2087	7,857	68	212	-	
Manhole	Mcgregor St	1987	100		7,857	68	212	-	
Manhole	Mcgregor St	1988	100		7,857	69	211	-	
Manhole	Mcgregor St	1990	100		7,857	71	208	-	
Manhole Manhole	Mcgregor St	1990	100	2090	7,857 7,857	71 71	208	-	
Manhole	Mcgregor St  Mckenzie St	1990 1912	100 100			0	208 suggested for 10 year capital forecast	7,857	
Manhole	Mckenzie St	1912	100		7,857	0	suggested for 10 year capital forecast	7,857	
Manhole	Mckenzie St	1979			7,857	60	226	-	
Manhole	Mclagan Dr	2004	100	2104	7,857	85	193	-	
Manhole	Mclagan Dr	2004	100	2104	7,857	85	193	•	
Manhole	Mclagan Dr	2004	100		7,857	85	193	-	
Manhole	Mclagan Dr	2004	100		7,857	85	193	-	
Manhole	Molagan Dr	2004	100		7,857 7,857	85	193	-	
Manhole Manhole	Mclagan Dr Mclagan Dr	2004 2004	100 100		7,857	85 85	193 193	-	
Manhole	Mclagan Dr	2004	100		7,857	85	193		
Manhole	Mcnab St	1913			7,857	0	suggested for 10 year capital forecast	7,857	
Manhole	Mcnab St	1913			7,857	0	suggested for 10 year capital forecast	7,857	
Manhole	Mcnab St	1914	100	2019	7,857	0	suggested for 10 year capital forecast	7,857	
Manhole	Mcnab St	1916	100	2019	7,857	0	suggested for 10 year capital forecast	7,857	
Manhole	Mcnab St	1916			7,857	0	suggested for 10 year capital forecast	7,857	
Manhole	Mcnab St	2002	100		7,857 7,857	83	195	-	
Manhole Manhole	Monab St	2003	100		7,857	84	194	-	
Manhole Manhole	Mcnab St  Mcqueen Ct	2003 1989	100 100		7,857	84 70	194 210	-	
Manhole	Mcqueen Ct	1909	100		7,857	73	206	-	
Manhole	Mcqueen Ct	1992	100		7,857	73	206	-	
Manhole	Mcqueen Ct	1992	100		7,857	73	206	-	
Manhole	Meighen Mews	1976	100	2076	7,857	57	232	-	
Manhole	Meighen Mews	1976				57	232	-	
Manhole	Meighen Mews	1976			7,857	57	232	-	
Manhole	Mercer St	1906			7,857	0	suggested for 10 year capital forecast	7,857	
Manhole Manhole	Mercer St	1907	100		7,857 7,857	0	suggested for 10 year capital forecast	7,857	
Manhole Manhole	Mercer St Mercer St	1907 1924	100 100		7,857	<u> </u>	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857	
Manhole	Mercer St	2003	100		7,857	84	194	- 7,007	
Manhole	Mercer St	2006	100		7,857	87	191	-	
Manhole	Mercer St	2013	100		7,857	94	186	-	
Manhole	Milton St	1983	100	2083		64	219	-	
Manhole	Milton St	1988	100			69	211	-	
Manhole	Milton St	2000				81	197	-	
Manhole	Milton St	2000	100		7,857	81	197	-	
Manhole	Milton St	2000				81	197	-	
Manhole	Moderwell St	1955				36	308		
Manhole Manhole	Moderwell St	1986			7,857 7,857	67	214	-	
Manhole Manhole	Moderwell St	2002	100		·	83	195		
Manhole	Monteith Ave	1958	100	2058	7,857	39	292	_	



	-			•	Manholes			
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Monteith Ave	1958	100	2058	7,857	39	292	-
Manhole	Monteith Ave	1958	100	2058	7,857	39	292	-
Manhole	Monteith Ave	1958	100		7,857	39	292	-
Manhole	Monteith Ave	1986	100		7,857	67	214	-
Manhole	Monteith Ave	2002	100	2102	7,857	83	195	
Manhole Manhole	Monteith Ave	2002	100		7,857 7,857	83 83	195	
Manhole Manhole	Monteith Ave Monteith Ave	2002	100 100		7,857	84	195 194	-
Manhole	Monteith Ave	2003	100		7,857	84	194	
Manhole	Moore St	2000	100		7,857	81	197	-
Manhole	Moore St	2000	100		7,857	81	197	-
Manhole	Moore St	2000	100	2100	7,857	81	197	-
Manhole	Morenz Dr	1924	100		7,857	5	suggested for 10 year capital forecast	7,857
Manhole	Morenz Dr	1951	100	2051	7,857	32	335	-
Manhole	Morgan St	1991	100		7,857	72	207	-
Manhole Manhole	Morgan St	1991	100 100	2091 2091	7,857 7,857	72	207 207	-
Manhole	Morgan St  Morgan St	1991 1991	100		7,857	72 72	207	-
Manhole	Morgan St	1991	100		7,857	72	207	-
Manhole	Morgan St	1991	100		7,857	72	207	-
Manhole	Morison St	1955	100		7,857	36	308	-
Manhole	Morison St	1958	100		7,857	39	292	-
Manhole	Morison St	1958	100	2058	7,857	39	292	-
Manhole	Mornington St	1952	100		7,857	33	328	
Manhole	Mornington St	1952	100		7,857	33	328	
Manhole	Mornington St	1952	100		7,857 7,857	33	328	
Manhole Manhole	Mornington St  Mornington St	1964 1964	100 100	2064 2064	7,857	45 45	266 266	
Manhole	Mornington St	1967	100		7,857	48		
Manhole	Mornington St	1967	100		7,857	48	256	
Manhole	Mornington St	1967	100		7,857	48	256	
Manhole	Mornington St	1967	100	2067	7,857	48	256	-
Manhole	Mornington St	1967	100		7,857	48	256	-
Manhole	Mornington St	1969	100		7,857	50	250	-
Manhole	Mornington St	1970	100		7,857 7,857	51	247	-
Manhole Manhole	Mornington St  Mornington St	1970 1970	100 100	2070 2070	7,857	51 51	247 247	-
Manhole	Mornington St	1970	100		7,857	51	247	
Manhole	Mornington St	1970	100		7,857	51	247	_
Manhole	Mornington St	1970	100		7,857	51	247	-
Manhole	Mornington St	1972	100	2072	7,857	53	242	-
Manhole	Mornington St	1972	100	2072	7,857	53	242	-
Manhole	Mornington St	1972	100		7,857	53	242	
Manhole	Mornington St	1972	100		7,857	53	242	
Manhole Manhole	Mornington St	1972	100 100		7,857 7,857	53	242	
Manhole Manhole	Mornington St  Mornington St	1972 1976	100		7,857	53 57	242 232	
Manhole	Mornington St	1976	100		7,857	57	232	
Manhole	Mornington St	1976	100		7,857	57	232	
Manhole	Mornington St	1976	100		7,857	57	232	
Manhole	Mornington St	1976	100		7,857	57	232	-
Manhole	Mornington St	1977	100		7,857	58	230	
Manhole	Mornington St	1979	100		7,857	60	226	
Manhole Manhole	Mornington St	1980	100		7,857 7,857	61	224	-
Manhole Manhole	Mornington St	1993	100		7,857 7,857	74 80	204	-
Manhole Manhole	Mornington St  Mornington St	1999 2005	100 100		7,857	80 86	198 192	
Manhole	Mornington St	2003	100		7,857	95	192	1
Manhole	Mornington St	2017	100		7,857	98	183	
Manhole	Mornington St	2017	100		7,857	98	183	
Manhole	Mornington St	2017	100	2117	7,857	98	183	-
Manhole	Mowat St	1943				24		
Manhole	Mowat St	1954	100			35		
Manhole	Mowat St	1965	100			46		
Manhole Manhole	Mowat St	1965	100			46		
Manhole Manhole	Mowat St  Mowat St	1982 2006	100 100			63 87	220 191	-
Manhole	Mowat St	2006	100			87	191	
		2000	100	2100	.,557	UI.	191	-
Manhole	Murray Hill Rd	1971	100	2071	7,857	52	244	-



Manholes								
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Murray Hill Rd	2000	100	2100	7,857	81	197	-
Manhole	Neal Ave	1965	100	2065	7,857	46	263	-
Manhole	Neal Ave	1965	100	2065		46	263	-
Manhole	Neal Ave	1965	100			46	263	-
Manhole	Neal Ave	1965	100			46	263	-
Manhole Manhole	Neal Ave	1979	100			60 60	226	-
Manhole Manhole	Neal Ave	1979 1979	100 100		·	60	226 226	
Manhole	Neal Ave	1979	100			60		_
Manhole	Nelson St	1915	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Nelson St	1915	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Nelson St	1915	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Nelson St	1915	100			0	suggested for 10 year capital forecast	7,857
Manhole	Nelson St	1916	100			0	suggested for 10 year capital forecast	7,857
Manhole	Nelson St	1923	100			4	suggested for 10 year capital forecast	7,857
Manhole Manhole	Nelson St Nelson St	1979	100		7,857 7,857	60	226 206	-
Manhole Manhole	Nelson St	1992 1992	100 100			73 73	206	-
Manhole	Nelson St	1992	100		·	73	206	-
Manhole	Nelson St	1992	100		·	73	206	-
Manhole	Nelson St	1992	100		7,857	73	206	-
Manhole	Nelson St	1992	100			73	206	-
Manhole	Nelson St	1992	100		7,857	73	206	-
Manhole	Nelson St	1993	100			74	204	-
Manhole	Nelson St	1993	100			74	204	-
Manhole	Nelson St	1994	100		7,857 7,857	75	203	-
Manhole Manhole	Nelson St Nelson St	2007	100 100		7,857	88 88	190 190	-
Manhole	Nelson St	2007	100			88		
Manhole	Nelson St	2007	100			88	190	_
Manhole	Nelson St	2007	100			88	190	-
Manhole	Nethercott Dr	1976	100	2076	7,857	57	232	-
Manhole	Nethercott Dr	1976				57	232	-
Manhole	Nethercott Dr	1976				57	232	-
Manhole	Nethercott Dr	1976	100			57	232	-
Manhole Manhole	Nethercott Dr Nethercott Dr	1976 1976	100 100			57 57	232 232	-
Manhole	Nightingale PI	1976	100		7,857	72	207	
Manhole	Nightingale PI	1991	100		7,857	72	207	-
Manhole	Nightingale PI	1991	100		7,857	72	207	-
Manhole	Nightingale PI	1991	100	2091	7,857	72	207	-
Manhole	Nile St	1916	100			0	suggested for 10 year capital forecast	7,857
Manhole	Nile St	1948	100			29	360	-
Manhole	Nile St	1948				29	360	-
Manhole Manhole	Nile St	1958	100			39	292	-
Manhole Manhole	Nile St Nile St	1980 1992	100 100		7,857	61 73	224 206	-
Manhole	Nile St	1992	100		·	77	200	-
Manhole	Nile St	1996	100			77	201	-
Manhole	Nile St	1996	100			77	201	-
Manhole	Nile St	1996	100			77	201	-
Manhole	Nile St	2000	100			81	197	-
Manhole	Norfolk St	1914	100			0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Norfolk St	1914	100			0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Norfolk St Norfolk St	1914 1970				51	suggested for 10 year capital forecast 247	7,857
Manhole Manhole	Norfolk St	1970	100		·	51 74	247	-
Manhole	Norfolk St	2002	100		7,857	83	195	-
Manhole	Norfolk St	2002	100			83	195	-
Manhole	Norfolk St	2002	100			83	195	-
Manhole	Norfolk St	2002	100		7,857	83	195	-
Manhole	Norman St	1914				0	7 1	7,857
Manhole	Norman St	1919				0	7 33	7,857
Manhole	Norman St	1919				0	suggested for 10 year capital forecast	7,857
Manhole	Norman St	1919				0	suggested for 10 year capital forecast	7,857
	INIarman Ct	1919	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Norman St	1			7 057			
Manhole	Norman St	1950	100	2050		31	343	
		1	100	2050 2053	7,857	31 34 35	321	-



Manholes								
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Norman St	1997	100	2097	7,857	78	200	-
Manhole	Norman St	1997	100	2097	7,857	78	200	-
Manhole	Norman St	1997	100		7,857	78	200	-
Manhole Manhole	Norman St	2005	100			86		-
Manhole Manhole	Norman St Norman St	2005 2006	100 100			86 87	192 191	-
Manhole	Norman St	2006	100		·	87	191	
Manhole	Norman St	2006	100		·	87	191	-
Manhole	Norman St	2006	100			87	191	-
Manhole	Normandy Dr	1946	100	2046	7,857	27	379	-
Manhole	Normandy Dr	1946	100	2046		27	379	-
Manhole	Normandy Dr	1984	100			65	217	-
Manhole	Normandy Dr	1984	100			65	217	-
Manhole	Normandy Dr	1984	100		7,857 7,857	65	217	-
Manhole Manhole	Normandy Dr Normandy Dr	1984 1984	100 100			65 65	217 217	-
Manhole	Normandy Dr	1984	100		7,857	65	217	
Manhole	Nornabell Ct	2004	100		·	85		-
Manhole	Nornabell Ct	2004	100			85		-
Manhole	Nornabell Ct	2004	100	2104		85	193	-
Manhole	Nornabell Ct	2004	100		7,857	85		-
Manhole	North St	1910	100			0		7,857
Manhole	North St	1924	100		7,857	5	suggested for 10 year capital forecast	7,857
Manhole	North St	1941	100		7,857 7,857	22		-
Manhole Manhole	Northway Crcl	1987 1989	100 100			68 70	212 210	-
Manhole	Norwood Ct	1987	100		7,857	68	212	
Manhole	Norwood Ct	1987	100		7,857	68	212	-
Manhole	Norwood Ct	1988			7,857	69		-
Manhole	Norwood Ct	1988	100	2088	7,857	69	211	-
Manhole	Norwood Ct	1988				69		-
Manhole	Norwood Ct	1988	100			69		-
Manhole	Oak St	1964	100			45		-
Manhole Manhole	Oak St Oak St	1966 1973	100 100			47 54	259 239	-
Manhole	Oak St	1973	100			54	239	-
Manhole	Oak St	2006	100		·	87		_
Manhole	Oak St	2008	100			89	190	-
Manhole	Oak St	2008	100	2108	7,857	89	190	-
Manhole	Oakdale Ave	1991	100	2091	7,857	72	207	-
Manhole	Oakdale Ave	1991	100		7,857	72	207	-
Manhole	Oakdale Ave	1991	100		7,857 7,857	72	207	-
Manhole Manhole	Oakdale Ave Oakdale Ave	1991 1991	100 100		7,857	72 72	207 207	-
Manhole	Oakdale Ave	1991	100		7,857	72	207	
Manhole	Oakdale Ave	1991	100		7,857	72	207	_
Manhole	O'Loane Ave	1960	100		7,857	41	283	-
Manhole	O'Loane Ave	1998	100	2098		79	199	-
Manhole	O'Loane Ave	2004	100			85		-
Manhole	O'Loane Ave	2004	100			85		-
Manhole	O'Loane Ave	2006	100			87	191	-
Manhole	O'Loane Ave	2006	100			87	191	-
Manhole Manhole	O'Loane Ave O'Loane Ave	2006 2006	100 100			87 87	191 191	-
Manhole	O'Loane Ave	2006				87		
Manhole	O'Loane Ave	2006	100			87	191	-
Manhole	O'Loane Ave	2006	100		·	87	191	-
Manhole	O'Loane Ave	2009	100		7,857	90		-
Manhole	Ontario St	1912	100			0	suggested for 10 year capital forecast	7,857
Manhole	Ontario St	1912	100			0	suggested for 10 year capital forecast	7,857
Manhole	Ontario St	1912	100			0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Ontario St	1912					7 1	7,857
Manhole Manhole	Ontario St Ontario St	1912 1912				Ţ	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
Manhole	Ontario St	1912	100				suggested for 10 year capital forecast	7,857
Manhole	Ontario St	1912				n	suggested for 10 year capital forecast	7,857
Manhole	Ontario St	1913				0		7,857
Manhole	Ontario St	1919						7,857
Manhole	Ontario St	1919	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Marinole	Ontano ot	1010			7,857			,



Manholes								
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Ontario St	1954	100	2054	7,857	35	314	-
Manhole	Ontario St	1954	100	2054	7,857	35	314	-
Manhole	Ontario St	1966	100		7,857	47	259	-
Manhole	Ontario St	1966	100		7,857	47	259	-
Manhole	Ontario St	1966	100	2066	7,857 7,857	47	259	-
Manhole Manhole	Ontario St Ontario St	1966	100		7,857	47	259	-
Manhole Manhole	Ontario St	1966 1966	100 100		7,857	47 47	259 259	-
Manhole	Ontario St	1966	100		7,857	47	259	-
Manhole	Ontario St	1966	100		7,857	47	259	-
Manhole	Ontario St	1966	100		7,857	47	259	-
Manhole	Ontario St	1966	100	2066	7,857	47	259	-
Manhole	Ontario St	1973	100		7,857	54	239	-
Manhole	Ontario St	1982	100		7,857	63	220	-
Manhole	Ontario St	1984	100		7,857	65	217	-
Manhole Manhole	Ontario St	1984	100		7,857 7,857	65 65	217 217	-
Manhole	Ontario St Ontario St	1984 2005	100 100		7,857	65 86	192	-
Manhole	Ontario St	2005	100		7,857	89	192	
Manhole	Ontario St	2008	100		7,857	89	190	
Manhole	Ontario St	2008	100		7,857	89	190	-
Manhole	Ontario St	2008	100		7,857	89	190	-
Manhole	Ontario St	2008	100	2108	7,857	89	190	-
Manhole	Ontario St	2008	100		7,857	89	190	-
Manhole	Ontario St	2008	100		7,857	89	190	-
Manhole	Ontario St	2008	100		7,857 7,857	89	190	
Manhole Manhole	Ontario St Ontario St	2008 2008	100	2108 2108	7,857	89 89	190 190	-
Manhole	Ontario St	2008				89	190	
Manhole	Oxford St	1965			7,857	46	263	_
Manhole	Oxford St	1965			7,857	46	263	-
Manhole	Oxford St	1965	100	2065	7,857	46	263	-
Manhole	Oxford St	1965	100	2065	7,857	46	263	-
Manhole	Oxford St	1965	100		7,857	46	263	-
Manhole	Oxford St	2017	100		7,857 7,857	98	183	
Manhole Manhole	Oxford St Packham Ave	2017 1998	100 100		7,857	98 79	183 199	-
Manhole	Packham Ave	1998	100		7,857	79 79	199	
Manhole	Packham Ave	1998	100		7,857	79	199	-
Manhole	Packham Ave	1998	100		7,857	79	199	-
Manhole	Packham Ave	1998	100	2098	7,857	79	199	-
Manhole	Packham Ave	1998	100	2098	7,857	79	199	-
Manhole	Packham Ave	2001	100		7,857	82	196	-
Manhole	Packham Ave	2001	100		7,857	82	196	-
Manhole Manhole	Palmer Sq	1953	100		7,857 7,857	34	321	-
Manhole Manhole	Park Lane Dr Park Lane Dr	1971 1971	100		7,857	52 52	244 244	-
Manhole	Park Lane Dr	1973	100		7,857	54	239	-
Manhole	Park Lane Dr	1973	100		7,857	54	239	-
Manhole	Park St	1968	100		7,857	49	253	-
Manhole	Park St	1981	100		7,857	62	222	-
Manhole	Park St	1996	100		7,857	77	201	-
Manhole	Park St	1996	100			77	201	-
Manhole Manhole	Park St	1996	100		7,857 7,857	77	201	-
Manhole Manhole	Parkview Dr	1983			7,857 7,857	64	219	-
Manhole Manhole	Patricia Rd Patricia Rd	1968 1968			7,857	49 49	253 253	-
Manhole	Patricia Rd	1908	100		7,857	54	239	-
Manhole	Patricia Rd	1973	100		7,857	54	239	-
Manhole	Patricia Rd	1973	100		7,857	54	239	-
Manhole	Patricia Rd	1973	100	2073	7,857	54	239	-
Manhole	Patricia Rd	1973				54	239	-
Manhole	Patricia Rd	1974				55	237	-
Manhole	Patricia Rd	1974				55	237	-
Manhole Manhole	Patricia Rd	1974	100		7,857 7,857	55 55	237	-
Manhole Manhole	Patricia Rd Perth Line 33	1974 1981	100 100		7,857	55 62	237 222	-
Manhole	Perth Line 33	1981	100		7,857	62	222	-
	. 51411 E1110 00	1001	100	2001	1,007	02	222	
Manhole	Perth Line 33	1982	100	2082	7,857	63	220	-



Manholes								
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Perth Line 33	1982	100	2082	7,857	63	220	-
Manhole	Perth Line 33	1982	100		7,857	63	220	-
Manhole	Perth Line 33	1982	100		7,857 7,857	63	220	
Manhole Manhole	Perth St Perth St	1914 1914	100 100		7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
Manhole	Perth St	1914	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Perth St	1970	100		7,857	51	247	
Manhole	Perth St	1970	100		7,857	51	247	-
Manhole	Peter St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
Manhole Manhole	Pine St Player St	1947 1921	100 100		7,857 7,857	28	369 suggested for 10 year capital forecast	7,857
Manhole	Pleasant Dr	1954	100		7,857	35	314	-
Manhole	Pleasant Dr	1954	100		7,857	35	314	-
Manhole	Pleasant Dr	1954	100		7,857	35	314	-
Manhole	Pleasant Dr	1954	100		7,857 7,857	35	314	-
Manhole Manhole	Pleasant Dr Polley Pl	1993 1978	100 100		7,857	74 59	204 228	-
Manhole	Portia Blvd	1924	100		7,857	5	suggested for 10 year capital forecast	7,857
Manhole	Portia Blvd	1947	100	2047	7,857	28	369	
Manhole	Portia Blvd	1947	100		7,857	28	369	
Manhole	Princess St	1907	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Princess St Princess St	1907 1907	100 100		7,857 7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
Manhole	Princess St	1952	100		7,857	33	328	
Manhole	Princess St	1952	100		7,857	33	328	
Manhole	Princess St	1970	100	2070	7,857	51	247	-
Manhole	Queen St	1915	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Queen St	1915			7,857 7,857	0		7,857
Manhole Manhole	Queen St Queen St	1915 1918	100 100		7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
Manhole	Queen St	1919	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Queen St	1922	100		7,857	3	suggested for 10 year capital forecast	7,857
Manhole	Queen St	1924	100		7,857	5	suggested for 10 year capital forecast	7,857
Manhole	Queen St	1924	100		7,857 7,857	5	suggested for 10 year capital forecast	7,857
Manhole Manhole	Queen'S Park Dr Queensland Rd	1976 1977	100 100		7,857	57 58	232 230	-
Manhole	Queensland Rd	1977	100		7,857	58	230	
Manhole	Queensland Rd	1977	100	2077	7,857	58	230	-
Manhole	Queensland Rd	1977	100		7,857	58	230	
Manhole	Queensland Rd	1977	100		7,857 7,857	58	230	
Manhole Manhole	Queensland Rd Queensland Rd	1977 2009	100 100		7,857	58 90	230 189	
Manhole	Queensland Rd	2009	100		7,857	90	189	
Manhole	Railway Ave	1910	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Railway Ave	1916	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Railway Ave	1916	100		7,857 7,857	0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Railway Ave Railway Ave	1964 1975	100 100		7,857	45 56	266 235	
Manhole	Railway Ave	1975	100		7,857	56	235	
Manhole	Railway Ave	1976	100		7,857	57	232	
Manhole	Railway Ave	1983	100		7,857	64	219	
Manhole	Railway Ave	1984	100		7,857 7,857	65	217	-
Manhole Manhole	Railway Ave Railway Ave	1991 2007	100 100		7,857	72 88	207 190	-
Manhole	Railway Ave	2007	100		7,857	88	190	
Manhole	Railway Ave	2007	100		7,857	88	190	
Manhole	Railway Ave	2007	100		7,857	88	190	
Manhole	Railway Ave	2007	100		7,857	88	190	
Manhole Manhole	Railway Ave Railway Ave	2007 2007	100 100		7,857 7,857	88 88	190 190	
Manhole	Railway Ave	2007	100		7,857	92	190	
Manhole	Railway Ave	2011	100		7,857	92	187	
Manhole	Railway Ave	2011	100	2111	7,857	92	187	-
Manhole	Railway Ave	1897	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Rankin St	1984	100		7,857 7,857	65	217	i
Manhole Manhole	Rebecca St Rebecca St	1921 1921	100 100		7,857	2	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
Manhole	Rebecca St	1921	100		7,857	2	suggested for 10 year capital forecast	
Manhole	Rebecca St	1896	100		7,857	0	suggested for 10 year capital forecast	
Manhole	Rebecca St	1896	100	2019	7,857	0	suggested for 10 year capital forecast	



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Asset	Asset Street		Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Rebecca St	1896	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Rebecca St	1897	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Rebecca St	1897	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Rebecca St	1897	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Redford Cres	1955	100	2055	7,857	36	308	-
Manhole	Redford Cres	1959	100		7,857 7,857	40	287	-
Manhole Manhole	Redford Cres Redford Cres	1959 1959	100		7,857	40 40	287 287	-
Manhole	Redford Cres	1959	100		7,857	40	287	
Manhole	Redford Cres	1963	100		7,857	44	270	-
Manhole	Redford Cres	1963	100		7,857	44	270	-
Manhole	Redford Cres	1963	100	2063	7,857	44	270	-
Manhole	Redford Cres	1964	100		7,857	45	266	-
Manhole	Redford Cres	1964	100		7,857	45	266	-
Manhole	Redford Cres	1964	100		7,857	45	266	-
Manhole Manhole	Redford Cres Redford Cres	1965	100	2065	7,857 7,857	46	263 263	-
Manhole	Redford Cres	1965 1965	100 100		7,857	46 46	263	<u>-</u>
Manhole	Regent St	1905	100		7,857	40 3	suggested for 10 year capital forecast	7,857
Manhole	Regent St	1922	100		7,857	3	suggested for 10 year capital forecast	7,857
Manhole	Richard Monette V	1958	100		7,857	39	292	-
Manhole	Riehl Ct	1968	100		7,857	49	253	-
Manhole	Romeo St N	1960	100	2060	7,857	41	283	-
Manhole	Romeo St N	1998	100		7,857	79	199	-
Manhole	Romeo St N	1998	100		7,857	79	199	-
Manhole	Romeo St N	1998	100		7,857 7,857	79	199	-
Manhole Manhole	Romeo St N Romeo St N	1998 1998	100	2098 2098	7,857	79 79	199 199	
Manhole	Romeo St N	1998				79		
Manhole	Romeo St N	1998			7,857	79	199	-
Manhole	Romeo St N	1998			7,857	79	199	-
Manhole	Romeo St N	1998	100	2098	7,857	79	199	-
Manhole	Romeo St N	1998	100		7,857	79	199	-
Manhole	Romeo St N	1998	100		7,857	79	199	-
Manhole	Romeo St N	1998	100		7,857 7,857	79	199	-
Manhole Manhole	Romeo St N Romeo St N	1998 2002	100 100		7,857	79 83	199 195	-
Manhole	Romeo St S	1914	100		7,857	00	suggested for 10 year capital forecast	7,857
Manhole	Romeo St S	1914	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Romeo St S	1914	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Romeo St S	1914	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Romeo St S	1915			7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Romeo St S	1953	100		7,857	34	321	-
Manhole	Romeo St S	1953			7,857 7,857	34	321	-
Manhole Manhole	Romeo St S Romeo St S	1953 1967	100 100		7,857	34 48	321 256	-
Manhole	Romeo St S	1967	100		7,857	48	256	
Manhole	Romeo St S	1973	100		7,857	54	239	_
Manhole	Romeo St S	1973	100		7,857	54	239	-
Manhole	Romeo St S	1975	100	2075	7,857	56	235	-
Manhole	Romeo St S	1975			7,857	56	235	-
Manhole	Romeo St S	1976			7,857	57	232	-
Manhole	Romeo St S	1976				57	232	-
Manhole Manhole	Romeo St S Romeo St S	1976 1976			7,857 7,857	57 57	232 232	-
Manhole Manhole	Romeo St S	1976	100		7,857	62	232	-
Manhole	Romeo St S	1981	100		7,857	62	222	-
Manhole	Romeo St S	1981	100		7,857	62	222	-
Manhole	Romeo St S	1981	100		7,857	62	222	-
Manhole	Romeo St S	1981	100	2081	7,857	62	222	-
Manhole	Romeo St S	1981	100		7,857	62	222	-
Manhole	Romeo St S	1982				63		
Manhole	Romeo St S	1982			7,857	63	220	
Manhole Manhole	Romeo St S	1982			7,857 7,857	63	220	
Manhole Manhole	Romeo St S Romeo St S	1982 1982	100 100			63 63	220 220	
Manhole	Romeo St S	1982			·	77	220	-
Manhole	Romeo St S	1996				77	201	-
Manhole	Romeo St S	1998	100	2098	7,857	79	199	-



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Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Romeo St S	1998	100	2098	7,857	79	199	-
Manhole	Romeo St S	1998	100	2098	7,857	79	199	-
Manhole	Romeo St S	1999	100	2099	7,857	80	198	-
Manhole	Romeo St S	2008	100		7,857	89	190	-
Manhole	Romeo St S	2008	100	2108	7,857	89	190	-
Manhole Manhole	Romeo St S Romeo St S	2008	100		7,857 7,857	89 89	190	-
Manhole	Rutherford Dr	2008 2006	100 100		7,857	87	190 191	
Manhole	Rutherford Dr	2006	100		7,857	87	191	-
Manhole	Rutherford Dr	2006	100		7,857	87	191	-
Manhole	Rutherford Dr	2006	100	2106	7,857	87	191	-
Manhole	Sargint St	1974	100	2074	7,857	55	237	-
Manhole	Sargint St	1974	100		7,857	55	237	-
Manhole	Sargint St	1974	100		7,857	55	237	-
Manhole	Sargint St	1974	100		7,857	55	237	-
Manhole	Sargint St	1976	100	2076	7,857 7,857	57	232	-
Manhole Manhole	Scott St	1976 1976	100 100		7,857	57 57	232 232	-
Manhole	Shakespeare St	1976	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Shakespeare St	1917	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Shakespeare St	1917	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Shakespeare St	2013	100	2113	7,857	94	186	-
Manhole	Shakespeare St	2013	100	2113	7,857	94	186	-
Manhole	Shakespeare St	2013	100		7,857	94	186	-
Manhole	Shakespeare St	2013	100		7,857	94	186	-
Manhole	Shakespeare St	2013	100		7,857 7,857	94	186	-
Manhole Manhole	Shakespeare St Sharman St	2013 1987	100		7,857	94 68	186 212	-
Manhole	Sharman St	1987			7,857	68	212	-
Manhole	Short St	2015			7,857	96	185	_
Manhole	Short St	2015			7,857	96	185	-
Manhole	Shrewsbury St	1918	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Shrewsbury St	1918	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Silcox PI	1987	100		7,857	68	212	-
Manhole	Simcoe St	1925	100		7,857 7,857	6	suggested for 10 year capital forecast	7,857
Manhole Manhole	Simcoe St Simcoe St	1991 1991	100 100		7,857	72 72	207 207	-
Manhole	Simcoe St	1991	100		7,857	72	207	
Manhole	Simcoe St	1991	100		7,857	72	207	_
Manhole	Simcoe St	2014	100		7,857	95	185	-
Manhole	Simpson Ct	1967	100	2067	7,857	48	256	-
Manhole	Sir Adam Beck Ro	2004	100	2104	7,857	85	193	-
Manhole	Sir Adam Beck Ro		100		7,857	85	193	-
Manhole	Sir Adam Beck Ro		100		7,857	85	193	-
Manhole Manhole	Sir Adam Beck Ro		100		7,857 7,857	85 85	193	-
Manhole Manhole	Sir Adam Beck Ro		100		7,857	85 85	193 193	-
Manhole	Sir Adam Beck Ro		100		7,857	85	193	-
Manhole	Sir Adam Beck Ro		100		7,857	85	193	-
Manhole	Sir Adam Beck Ro		100		7,857	85	193	-
Manhole	Sir Adam Beck Ro	2004	100	2104	7,857	85	193	-
Manhole	Sir Adam Beck Ro		100		7,857	85	193	-
Manhole	Sir Adam Beck Ro		100			85	193	-
Manhole Manhole	Sir Adam Book Ro		100		7,857 7,857	85 85	193	-
Manhole Manhole	Sir Adam Beck Ro		100		7,857 7,857	85	193	-
Manhole Manhole	Smith St Smith St	2015 2015	100 100		7,857	96 96	185 185	-
Manhole	Smith St	2015	100		7,857	96	185	-
Manhole	Somerset St	1946	100		7,857	27	379	-
Manhole	Somerset St	1946	100		7,857	27	379	-
Manhole	Somerset St	1953	100	2053	7,857	34	321	-
Manhole	Somerset St	1989				70		-
Manhole	Sprung Ct	1987	100		7,857	68	212	-
Manhole	Sprung Ct	1987	100		7,857	68	212	-
		1007	100	2087	7,857	68	212	-
Manhole Manhole	Sprung Ct	1987			7 057	40	augmented for 10 years and of force	7 057
Manhole	St. Andrew St	1929	100	2029		10	•	7,857 7,857
Manhole Manhole	St. Andrew St St. David St	1929 1922	100 100	2029 2022	7,857	3	suggested for 10 year capital forecast	7,857
Manhole	St. Andrew St	1929	100 100 100	2029 2022 2079	7,857 7,857	10 3 60 87		



				ı	Manholes			
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	St. Patrick St	1921	100	2021	7,857	2	suggested for 10 year capital forecast	7,857
Manhole	St. Patrick St	1965	100	2065	7,857	46	263	-
Manhole	St. Patrick St	1965	100	2065	7,857	46	263	-
Manhole	St. Patrick St	1989	100		7,857	70	210	-
Manhole	St. Patrick St	2005	100	2105	7,857	86	192	-
Manhole	St. Patrick St	2005	100		7,857 7,857	86	192	-
Manhole Manhole	St. Patrick St St. Patrick St	2006 2006	100 100			87 87	191 191	-
Manhole	St. Patrick St	2006	100		7,857	87	191	_
Manhole	St. Patrick St	2006	100		7,857	87	191	-
Manhole	St. Patrick St	2006	100	2106	7,857	87	191	-
Manhole	St. Patrick St	2006	100	2106		87	191	-
Manhole	St. Patrick St	2006	100		7,857	87	191	-
Manhole	St. Vincent St N	1930	100	2030	7,857	11	803	-
Manhole	St. Vincent St N	1992	100		7,857	73	206	-
Manhole Manhole	St. Vincent St N	2005	100	2105	7,857 7,857	86	192	-
Manhole	St. Vincent St N St. Vincent St N	2005 2006	100 100	2105 2106		86 87	192 191	-
Manhole	St. Vincent St N	1918	100		· · · · · · · · · · · · · · · · · · ·	0	suggested for 10 year capital forecast	7,857
Manhole	St. Vincent St S	1953	100			34	321	- 1,001
Manhole	St. Vincent St S	1965	100		7,857	46	263	-
Manhole	St. Vincent St S	1965	100		7,857	46	263	-
Manhole	St. Vincent St S	1966	100	2066	7,857	47	259	-
Manhole	St. Vincent St S	1966	100	2066	7,857	47	259	-
Manhole	St. Vincent St S	1968	100	2068	7,857	49	253	-
Manhole	St. Vincent St S	1971	100		7,857	52	244	-
Manhole	St. Vincent St S	1971	100	2071	7,857 7,857	52 55	244	-
Manhole Manhole	St. Vincent St S St. Vincent St S	1974 1982	100 100			55 63	237 220	<u> </u>
Manhole	St. Vincent St S	1997	100		7,857	78	200	
Manhole	St. Vincent St S	1997	100		7,857	78	200	-
Manhole	St. Vincent St S	2004	100		7,857	85	193	-
Manhole	St. Vincent St S	2004	100	2104	7,857	85	193	-
Manhole	St. Vincent St S	2004	100	2104	7,857	85	193	-
Manhole	St. Vincent St S	2004	100		7,857	85	193	-
Manhole	St. Vincent St S	2004	100		7,857	85	193	-
Manhole	St. Vincent St S St. Vincent St S	2004 2004	100			85 85	193	-
Manhole Manhole	St. Vincent St S	2004	100 100		7,857	85	193 193	-
Manhole	Strachan St	1914	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Strachan St	1955	100			36	308	-
Manhole	Strachan St	1955	100			36	308	-
Manhole	Strachan St	1983	100	2083	7,857	64	219	-
Manhole	Strachan St	2006	100	2106		87	191	-
Manhole	Strachan St	2006	100			87	191	-
Manhole	Strachan St	2014	100		7,857	95	185	-
Manhole	Strachan St	2014	100		7,857 7,857	95	185	-
Manhole Manhole	Strachan St Strachan St	2014 2014	100 100		7,857	95 95	185 185	-
Manhole	Stratford St	1979	100		7,857	60	226	-
Manhole	Stratford St	1897	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Stratford St	1897	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Sutter St	1988	100			69	211	-
Manhole	Sutter St	1988	100			69	211	-
Manhole	Sutter St	1988				69	211	-
Manhole	T.J. Dolan Dr	1907	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	T.J. Dolan Dr	1929	100		7,857	10	suggested for 10 year capital forecast	7,857
Manhole Manhole	T.J. Dolan Dr	1955	100		7,857 7,857	36	308	-
Manhole Manhole	T.J. Dolan Dr T.J. Dolan Dr	2004 2004	100 100		7,857	85 85	193 193	-
Manhole	T.J. Dolan Dr	2004	100			85	193	-
Manhole	T.J. Dolan Dr	1897				0		7,857
Manhole	Taylor St	1917	100			0	suggested for 10 year capital forecast	7,857
Manhole	Taylor St	1961	100		7,857	42	278	
Manhole	Taylor St	1964	100			45	266	
Manhole	Taylor St	1964				45	266	-
Manhole	Taylor St	1980	100	2080		61	224	-
Manhole	Taylor St	1987	100			68	212	-
Manhole	Thomas St	1990				71	208	-
Manhole	Thomas St	2005	100	2105	7,857	86	192	-



				ı	Manholes			
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Thomas St	2005	100	2105	7,857	86	192	-
Manhole	Thomas St	2010	100	2110	7,857	91	188	-
Manhole	Trinity St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
Manhole	Trinity St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
Manhole	Trinity St	2005	100	2105	7,857 7,857	86	192	-
Manhole Manhole	Trinity St	2005 2005	100 100		7,857	86 86	192 192	-
Manhole Manhole	Trinity St Trinity St	2005	100		7,857	86	192	
Manhole	Trow Ave	1907	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Trow Ave	1913	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Tweedsmuir PI	1968	100		7,857	49	253	-
Manhole	Tweedsmuir PI	1968	100	2068	7,857	49	253	-
Manhole	Vanevery Way	2004	100		7,857	85	193	-
Manhole	Vanevery Way	2004	100	2104	7,857	85	193	-
Manhole	Vanevery Way	2004	100		7,857	85	193	-
Manhole Manhole	Vanevery Way	2004	100	2104	7,857 7,857	85 85	193 193	-
Manhole Manhole	Vanevery Way	2004 2004	100 100	2104 2104	7,857	85 85	193	-
Manhole	Vanevery Way Vanevery Way	2004	100		7,857	85	193	-
Manhole	Vanevery Way	2004	100		7,857	85	193	-
Manhole	Verona Pk	1975	100		7,857	56	235	-
Manhole	Verona Pk	1990	100	2090	7,857	71	208	-
Manhole	Veterans Dr	1908	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Veterans Dr	1897	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Victoria St	1912	100		7,857	0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Victoria St	1912	100		7,857 7,857	0	suggested for 10 year capital forecast	7,857
Manhole Manhole	Victoria St Victoria St	1915 1979	100 100		7,857	60	suggested for 10 year capital forecast 226	7,857
Manhole	Viola Ct	1979			·	39	292	
Manhole	Vivian Line 37	2006	100		7,857	87	191	_
Manhole	Vivian Line 37	2006	100		7,857	87	191	-
Manhole	Vivian Line 37	2006	100	2106	7,857	87	191	-
Manhole	Vivian Line 37	2006	100		7,857	87	191	-
Manhole	Vivian Line 37	2006	100		7,857	87	191	-
Manhole	Vivian Line 37	2006	100		7,857 7,857	87	191	-
Manhole Manhole	Vivian Line 37 Vivian Line 37	2006 2006	100 100		7,857	87 87	191 191	-
Manhole	Vivian Line 37	2006	100		7,857	95	185	
Manhole	Vivian Line 37	2014	100		7,857	95	185	_
Manhole	Vivian Line 37	2014	100		7,857	95	185	-
Manhole	Vivian Line 37	2014	100	2114	7,857	95	185	-
Manhole	Waddell St	1952	100	2052	7,857	33	328	-
Manhole	Waddell St	1952	100		7,857	33	328	-
Manhole	Waddell St	1952	100		7,857	33	328	-
Manhole	Waddell St	1953	100		7,857	34	321	-
Manhole Manhole	Waddell St	1987 1987	100 100		7,857 7,857	68 68	212 212	-
Manhole Manhole	Waddell St Waddell St	1987	100		7,857	68	212	
Manhole	Waldie'S Lnwy	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
Manhole	Walsh Cres	1968	100		7,857	49	253	-
Manhole	Walsh Cres	1968	100		7,857	49	253	
Manhole	Walsh Cres	1993	100	2093	7,857	74	204	-
Manhole	Walsh Cres	1996	100		7,857	77	201	-
Manhole	Walsh Cres	1996	100		7,857	77	201	-
Manhole	Walsh Cres	1996			7,857	77	201	-
Manhole Manhole	Walsh Cres	1996			7,857 7,857	77	201	-
Manhole Manhole	Walsh Cres Walsh Cres	1996 1996	100 100		7,857	77 77	201 201	-
Manhole	Walsh Cres	1996	100		7,857	77	201	<u>-</u>
Manhole	Walsh Cres	1996	100		7,857	77	201	
Manhole	Walsh Cres	1996			7,857	77	201	-
Manhole	Warwick Rd	1952			7,857	33		-
Manhole	Warwick Rd	1952	100		7,857	33	328	-
Manhole	Warwick Rd	1952	100	2052	7,857	33	328	-
Manhole	Warwick Rd	1952	100		7,857	33	328	-
	Warwick Rd	1953	100	2053	7,857	34	321	-
Manhole		1						
Manhole	Water St	1924			7,857	5	suggested for 10 year capital forecast	7,857
		1	100	2024	7,857 7,857 7,857	5 5 29	suggested for 10 year capital forecast suggested for 10 year capital forecast 360	7,857 7,857



Manhole Manhole	Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Waterloo St N Waterloo St N Waterloo St S	Year Installed  1976 1978 1978 1978 1978 1984 1984 2005 2006 1929 2006 1908 1912 1912 1987 1990 1992 1996 1995 1915 1920 1920	100 100 100 100 100 100 100 100 100 100	2078 2078 2078 2078 2078 2084 2084 2105 2106 2029 2106 2019 2019 2019 2019 2087 2090 2092	Total Replacement Costs  7,857	Years until Replacement  57 59 59 59 65 65 86 87 10 87 0 0 68 71 73	Annual Lifecycle Contribution  232 228 228 228 228 228 217 217 217 192 191 suggested for 10 year capital forecast 191 suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 20 year capital forecast suggested for 30 year capital forecast suggested for 30 year capital forecast suggested for 30 year capital forecast suggested for 30 year capital forecast	
Manhole Manhole	Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Waterloo St N Waterloo St N Waterloo St S	1978 1978 1978 1978 1978 1978 1984 1984 2005 2006 1929 2006 2006 1908 1912 1912 1992 1996 1996 1995 1995 1990 1992 1996 1915 1920	100 100 100 100 100 100 100 100 100 100	2078 2078 2078 2078 2078 2084 2084 2105 2106 2029 2106 2019 2019 2019 2019 2087 2090 2092	7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857	59 59 59 65 65 86 87 10 87 0 0 0 68 71	228 228 228 228 228 228 217 217 217 219 192 191 suggested for 10 year capital forecast 191 suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast	
Manhole Manhole	Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Water St Waterloo St N Waterloo St N Waterloo St S	1978 1978 1978 1978 1984 1984 2005 2006 1929 2006 2006 1908 1912 1912 1987 1990 1992 1996 1915 1915 1920	100 100 100 100 100 100 100 100 100 100	2078 2078 2078 2078 2084 2084 2105 2106 2029 2106 2109 2019 2019 2019 2019 2087 2090 2092	7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857	59 59 59 65 65 86 87 10 87 0 0 0 68 71	228 228 228 228 217 217 217 219 192 191 suggested for 10 year capital forecast 191 suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast	- - - - - - - 7,857 - - 7,857 7,857 - - - -
Manhole Manhole	Water St Water St Water St Water St Water St Water St Water St Water St Water St Waterloo St N Waterloo St N Waterloo St S	1978 1978 1978 1984 1984 2005 2006 1929 2006 2006 1908 1912 1912 1987 1990 1992 1996 1915 1915 1920	100 100 100 100 100 100 100 100 100 100	2078 2078 2084 2084 2105 2106 2029 2106 2019 2019 2019 2087 2090 2092	7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857	59 59 65 65 86 87 10 87 87 0 0 0 68 71	228 228 217 217 217 217 192 191 suggested for 10 year capital forecast 191 suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast	- - - - - - 7,857 - - 7,857 7,857 - - -
Manhole Manhole	Water St Water St Water St Water St Water St Water St Water St Waterloo St N Waterloo St N Waterloo St S	1978 1984 1984 2005 2006 1929 2006 2006 1908 1912 1912 1990 1990 1992 1996 1915 1915 1920 1920	100 100 100 100 100 100 100 100 100 100	2078 2084 2084 2105 2106 2029 2106 2106 2019 2019 2019 2087 2090 2092	7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857	59 65 65 86 87 10 87 87 0 0 0 68 71	228 217 217 217 219 192 191 suggested for 10 year capital forecast 191 suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast 212 208	- - - - - 7,857 - - 7,857 7,857 - -
Manhole Manhole	Water St Water St Water St Water St Water St Waterloo St N Waterloo St N Waterloo St N Waterloo St S Well St Well St Well St Well St	1984 1984 2005 2006 1929 2006 2006 1908 1912 1912 1987 1990 1996 1996 1996 1915 1915 1920	100 100 100 100 100 100 100 100 100 100	2084 2084 2105 2106 2029 2106 2106 2019 2019 2019 2087 2090 2092	7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857	65 65 86 87 10 87 87 0 0 0 68 71	217 217 217 192 191 suggested for 10 year capital forecast 191 suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast 212 208 206	- - - - 7,857 - - 7,857 7,857 - - -
Manhole Manhole	Water St Water St Water St Water St Waterloo St N Waterloo St N Waterloo St S	1984 2005 2006 1929 2006 2006 1908 1912 1912 1987 1990 1992 1996 1996 1915 1915 1920	100 100 100 100 100 100 100 100 100 100	2084 2105 2106 2029 2106 2106 2019 2019 2019 2087 2090 2092	7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857	65 86 87 10 87 87 0 0 0 68 71	217 192 191 suggested for 10 year capital forecast 191 suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast 212 208 206	- - 7,857 - - 7,857 7,857 - - -
Manhole Manhole	Water St Water St Waterloo St N Waterloo St N Waterloo St N Waterloo St S	2005 2006 1929 2006 2006 1908 1912 1912 1987 1990 1992 1996 1995 1995 1915 1920	100 100 100 100 100 100 100 100 100 100	2105 2106 2029 2106 2106 2019 2019 2087 2087 2090 2092	7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857	86 87 10 87 87 0 0 0 68 71	192 191 suggested for 10 year capital forecast 191 191 suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast 212 208 206	- 7,857 - - 7,857 7,857 7,857 - -
Manhole Manhole	Water St Waterloo St N Waterloo St N Waterloo St N Waterloo St S Well St Well St Well St Well St Well St	2006 1929 2006 2006 1908 1912 1912 1987 1990 1996 1996 1996 1915 1915 1920	100 100 100 100 100 100 100 100 100 100	2106 2029 2106 2106 2019 2019 2019 2087 2090 2092	7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857	87 10 87 87 0 0 0 68 71	suggested for 10 year capital forecast  191  191  suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast 212 208 206	7,857 - - 7,857 7,857 7,857 - -
Manhole Manhole	Waterloo St N Waterloo St N Waterloo St N Waterloo St S Well St Well St Well St Well St Well St	1929 2006 2006 1908 1912 1912 1987 1990 1992 1996 1915 1915 1920	100 100 100 100 100 100 100 100 100 100	2029 2106 2106 2019 2019 2019 2087 2090 2092	7,857 7,857 7,857 7,857 7,857 7,857 7,857 7,857	10 87 87 0 0 0 68 71	suggested for 10 year capital forecast  191  191  suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast 212 208 206	- 7,857 7,857 7,857 - -
Manhole Manhole	Waterloo St N Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Well St Well St Well St Well St Well St	2006 2006 1908 1912 1912 1987 1990 1992 1996 1995 1915 1915 1920	100 100 100 100 100 100 100 100 100	2106 2106 2019 2019 2019 2087 2090 2092	7,857 7,857 7,857 7,857 7,857 7,857 7,857	87 0 0 0 68 71 73	191 191 suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast 212 208 206	- 7,857 7,857 7,857 - -
Manhole Manhole	Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Well St Well St Well St Well St Well St Well St	1908 1912 1912 1987 1990 1992 1996 1915 1915 1920	100 100 100 100 100 100 100 100	2019 2019 2019 2087 2090 2092 2096	7,857 7,857 7,857 7,857 7,857 7,857	0 0 0 68 71 73	suggested for 10 year capital forecast suggested for 10 year capital forecast suggested for 10 year capital forecast 212 208	7,857 7,857 - - -
Manhole Manhole	Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Well St Well St Well St Well St Well St Well St Well St	1912 1912 1987 1990 1992 1996 1996 1915 1915 1920	100 100 100 100 100 100 100	2019 2019 2087 2090 2092 2096	7,857 7,857 7,857 7,857 7,857	0 0 68 71 73	suggested for 10 year capital forecast suggested for 10 year capital forecast 212 208 206	7,857 7,857 - - -
Manhole Manhole	Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Well St Well St Well St Well St Well St Well St Well St	1912 1987 1990 1992 1996 1996 1915 1915 1920	100 100 100 100 100 100	2019 2087 2090 2092 2096	7,857 7,857 7,857 7,857	68 71 73	suggested for 10 year capital forecast 212 208 206	7,857 - - -
Manhole Manhole	Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Well St Well St Well St Well St Well St Well St Well St Well St Well St	1987 1990 1992 1996 1996 1915 1915 1920	100 100 100 100 100 100	2087 2090 2092 2096	7,857 7,857 7,857	68 71 73	212 208 206	
Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole	Waterloo St S Waterloo St S Waterloo St S Waterloo St S Waterloo St S Well St Well St Well St Well St Well St Well St Well St Well St	1990 1992 1996 1996 1915 1915 1920	100 100 100 100 100	2090 2092 2096	7,857 7,857	71 73	208 206	-
Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole	Waterloo St S Waterloo St S Waterloo St S Waterloo St S Well St Well St Well St Well St Well St Well St Well St Well St	1992 1996 1996 1915 1915 1920	100 100 100 100	2092 2096	7,857	73	206	-
Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole	Waterloo St S Waterloo St S Well St Well St Well St Well St Well St Well St Well St Well St	1996 1996 1915 1915 1920 1920	100 100 100	2096				
Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole	Waterloo St S Well St Well St Well St Well St Well St Well St Well St Well St	1996 1915 1915 1920	100 100		,	77	201	<del>                                     </del>
Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole	Well St Well St Well St Well St Well St Well St Well St	1915 1915 1920 1920	100		7,857	77	201	-
Manhole Manhole Manhole Manhole Manhole Manhole Manhole Manhole	Well St Well St Well St Well St Well St Well St	1915 1920 1920		2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole Nanhole Nanhole Nanhole Nanhole Nanhole	Well St Well St Well St	1920			7,857	0	suggested for 10 year capital forecast	7,857
Manhole Manhole Manhole	Well St Well St		100	2020	7,857	1	suggested for 10 year capital forecast	7,857
Manhole Nanhole	Well St	4004	100	2020	7,857	1	suggested for 10 year capital forecast	7,857
Manhole \		1921	100		7,857	2	suggested for 10 year capital forecast	7,857
1	Wellington St	1988	100		7,857	69	211	-
		1912	100		7,857	0	suggested for 10 year capital forecast	7,857
1	Wellington St	1912	100		7,857	0	suggested for 10 year capital forecast	7,857
	Wellington St	1912			7,857 7,857	0	suggested for 10 year capital forecast	7,857
1	Wellington St Wellington St	1915 1915	100 100		7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
	Wellington St	1915	100		7,857	0	suggested for 10 year capital forecast	7,857
	Wellington St	1921	100		7,857	2	suggested for 10 year capital forecast	7,857
1	Wellington St	1979	100		7,857	60	226	
<u> </u>	Wellington St	1979	100		7,857	60	226	
Manhole	Wellington St	2006	100	2106	7,857	87	191	-
	Wellington St	2006	100			87	191	-
	Wellington St	2006	100		7,857	87	191	-
	Wellington St	2006	100		7,857	87	191	-
<u> </u>	West Gore St	1914	100		7,857 7,857	0	suggested for 10 year capital forecast	7,857
1	West Gore St West Gore St	1914 1914	100 100		7,857	0	suggested for 10 year capital forecast suggested for 10 year capital forecast	7,857 7,857
1	West Gore St	1914	100		7,857	0	suggested for 10 year capital forecast	7,857
<u> </u>	West Gore St	1915	100		7,857	0	suggested for 10 year capital forecast	7,857
1	West Gore St	1915	100		7,857	0	suggested for 10 year capital forecast	7,857
1	West Gore St	1924	100		7,857	5	suggested for 10 year capital forecast	7,857
Manhole \	West Gore St	1924	100	2024	7,857	5	suggested for 10 year capital forecast	7,857
1	West Gore St	1934	100		7,857	15	611	-
	West Gore St	1934	100		7,857	15	611	-
	West Gore St	1934	100		7,857	15	611	-
	West Gore St	1934	100		7,857	15	611	-
<u> </u>	West Core St	1934	100		7,857 7,857	15	611	-
	West Gore St West Gore St	1949 1949	100 100		7,857	30 30	351 351	-
	West Gore St	1949	100		7,857	30	351	-
	West Gore St	1949	100		7,857	30	351	-
	West Gore St	1949	100		7,857	30	351	-
	West Gore St	1954	100		7,857	35	314	-
<u> </u>	West Gore St	1954	100		7,857	35	314	-
Manhole	West Gore St	1959	100		7,857	40	287	-
<u> </u>	West Gore St	1959	100		7,857	40	287	
	West Gore St	1977			7,857	58	230	
1	West Gore St	1977	100		7,857	58	230	
	West Gore St	1977	100		7,857	58	230	
	West Gore St	1984	100		7,857 7,857	65 65	217	
	West Gore St	1984	100			65 65	217	
<u> </u>	West Gore St West Gore St	1984 1984	100 100		7,857	65 65	217 217	
	West Gore St	1984 1987	100		7,857	68	217	
	West Gore St	1987	100		7,857	68	212	



Manholes									
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast	
Manhole	West Gore St	1987	100	2087	7,857	68	212	-	
Manhole	West Gore St	1987	100	2087	7,857	68	212	-	
Manhole	West Gore St	2004	100			85	193	-	
Manhole	West Gore St	2004	100		7,857	85	193	-	
Manhole	West Gore St	2004	100	2104	7,857 7,857	85	193	-	
Manhole Manhole	West Gore St West Gore St	2004 2004	100 100		7,857	85 85	193 193	-	
Manhole	West Gore St	2004	100		7,857	85	193		
Manhole	West Gore St	2004	100		7,857	85	193	_	
Manhole	West Gore St	2004	100		7,857	85	193	-	
Manhole	West Gore St	2006	100	2106	7,857	87	191	-	
Manhole	West Gore St	2006	100	2106		87	191	-	
Manhole	West Gore St	2006	100		7,857	87	191	-	
Manhole	West Gore St	2007	100		7,857	88	190	-	
Manhole	West Gore St	2007	100		7,857	88	190	-	
Manhole Manhole	West Gore St White St	2007 1977	100 100	2107 2077	7,857 7,857	88 58	190 230		
Manhole	White St	1977	100		7,857	58	230	<u>-</u>	
Manhole	White St	1977	100		7,857	58	230	-	
Manhole	Whitelock St	1923	100			4	suggested for 10 year capital forecast	7,857	
Manhole	Whitelock St	1923	100		7,857	4	suggested for 10 year capital forecast	7,857	
Manhole	Whitelock St	1923	100		7,857	4	suggested for 10 year capital forecast	7,857	
Manhole	Whitelock St	1973	100	2073	7,857	54	239	-	
Manhole	Whitelock St	1976	100		7,857	57	232	-	
Manhole	Whitelock St	1976	100		7,857	57	232	-	
Manhole	Whitelock St	1976	100		7,857 7,857	57	232	-	
Manhole Manhole	Whitelock St Whitelock St	1982 1986	100 100		7,857	63 67	220 214	-	
Manhole	Whitelock St	1988			·	69		-	
Manhole	Whyte Ave	1912	100			0	suggested for 10 year capital forecast	7,857	
Manhole	Whyte Ave	1954	100			35	314	-	
Manhole	Whyte Ave	1954	100	2054	7,857	35	314	-	
Manhole	Whyte Ave	1954	100			35	314	-	
Manhole	Whyte Ave	1954	100		7,857	35	314	-	
Manhole	Whyte Ave	1955	100		7,857 7,857	36	308	-	
Manhole Manhole	Whyte Ave Whyte Ave	1955 1955	100 100			36 36	308 308	-	
Manhole	William St	1900	100			0	suggested for 10 year capital forecast	7,857	
Manhole	William St	1923	100		7,857	4	suggested for 10 year capital forecast	7,857	
Manhole	William St	1923	100		7,857	4	suggested for 10 year capital forecast	7,857	
Manhole	William St	1929	100	2029	7,857	10	suggested for 10 year capital forecast	7,857	
Manhole	William St	1929	100	2029	7,857	10	suggested for 10 year capital forecast	7,857	
Manhole	William St	1929	100		7,857	10		7,857	
Manhole	William St	1929	100		7,857	10	7	7,857	
Manhole Manhole	William St	1952	100		7,857 7,857	33	328	-	
Manhole Manhole	William St William St	1955 1955	100 100		7,857	36 36	308 308	-	
Manhole	William St	1955	100			37	303	-	
Manhole	William St	2002	100		7,857	83	195	-	
Manhole	William St	2005	100		7,857	86	192	-	
Manhole	William St	2005	100		7,857	86	192	-	
Manhole	William St	2005	100			86	192	-	
Manhole	William St	2005	100			86	192	-	
Manhole Manhole	William St	2005	100			86	192	-	
Manhole Manhole	William St	2006	100			87 87	191	-	
Manhole Manhole	William St William St	2006 2006	100 100			87 87	191 191	-	
Manhole	William St	2006	100			87	191	-	
Manhole	William St	2006	100			87	191	-	
Manhole	William St	2006	100			87	191	-	
Manhole	William St	2006	100	2106		87	191	-	
Manhole	William St	2006				87		-	
Manhole	William St	2006				87	191	-	
Manhole	William St	2006	100			87	191	-	
Manhole	William St	2006	100			87	191	-	
	William St	2006	100	2106	7,857	87	191	-	
Manhole Manhole		1		2400	7 057	07	404		
Manhole	William St	2006	100			87 87	191 191		
		1		2106	7,857	87 87 87	191 191 191	-	



Manholes Manholes Manholes									
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast	
Manhole	William St	2006	100	2106	7,857	87	191	-	
Manhole	William St	2006	100	2106	7,857	87	191	-	
Manhole	William St	2006	100	2106	7,857	87	191	-	
Manhole	William St	2006	100		7,857	87	191	-	
Manhole	William St	2006	100	2106	7,857	87	191	-	
Manhole	William St	2006	100		7,857 7,857	87	191	-	
Manhole Manhole	William St Willow St	2006 1956	100 100		7,857	87 37	191 303	-	
Manhole	Willow St	1956	100		7,857	37	303		
Manhole	Willow St	1956	100		7,857	37	303	_	
Manhole	Willow St	1968	100		7,857	49	253	-	
Manhole	Willow St	1968	100	2068	7,857	49	253	-	
Manhole	Willow St	1968	100	2068	7,857	49	253	-	
Manhole	Willow St	1968	100	2068	7,857	49	253	-	
Manhole	Willow St	1968	100		7,857	49	253	-	
Manhole	Willow St	1968	100	2068	7,857	49	253	-	
Manhole	Willow St	1968	100		7,857 7,857	49	253	-	
Manhole Manhole	Willow St Willow St	1986 1996	100 100		7,857	67 77	214 201	-	
Manhole	Wilson Ct	1966	100		7,857	47	259	-	
Manhole	Windemere Cres	1966	100		7,857	47	259	-	
Manhole	Windemere Cres	1966	100		7,857	47	259	-	
Manhole	Windemere Cres	1966	100		7,857	47	259	-	
Manhole	Windemere Cres	1966	100	2066	7,857	47	259	-	
Manhole	Windemere Cres	1966	100	2066	7,857	47	259	-	
Manhole	Windemere Cres	1966	100		7,857	47	259	-	
Manhole	Wingfield Ave	1999	100	2099	7,857	80	198	-	
Manhole	Wingfield Ave	1999	100		7,857	80	198	-	
Manhole	Wingfield Ave	1999			7,857 7,857	80	198	-	
Manhole Manhole	Wingfield Ave Wingfield Ave	1999 1999	100 100		7,857	80 80	198 198	-	
Manhole	Wingfield Ave	1999	100		7,857	80	198		
Manhole	Wingfield Ave	1999	100		7,857	80	198	-	
Manhole	Woods St	1914	100		7,857	0	suggested for 10 year capital forecast	7,857	
Manhole	Woods St	1953	100	2053	7,857	34	321	-	
Manhole	Woods St	1953	100		7,857	34	321	-	
Manhole	Woods St	1953	100		7,857	34	321	-	
Manhole	Woods St	1956	100		7,857	37	303	-	
Manhole	Woods St	1956	100		7,857 7,857	37	303	-	
Manhole Manhole	Woods St Woods St	1987 1987	100 100		7,857	68 68	212 212		
Manhole	Woods St	1987	100		7,857	68	212	-	
Manhole	Woods St	1987	100		7,857	68	212	_	
Manhole	Woods St	1987	100		7,857	68	212	-	
Manhole	Woods St	2015	100	2115	7,857	96	185	-	
Manhole	Wooton Ct	1976	100	2076	7,857	57	232	-	
Manhole	Wooton Ct	1976	100		7,857	57	232	-	
Manhole	Wooton Ct	1976	100		7,857	57	232	-	
Manhole Manhole	Worsley St	1929	100		7,857 7,857	10	suggested for 10 year capital forecast	7,857	
Manhole Manhole	Worsley St Worsley St	2004 2005	100 100		7,857	85 86	193 192	-	
Manhole	Worsley St	2005	100		7,857	86	192	-	
Manhole	Worsley St	2005	100		7,857	86	192	-	
Manhole	Worsley St	2005	100		7,857	86	192	-	
Manhole	Worsley St	2005	100		7,857	86	192	-	
Manhole	Worsley St	2005	100	2105	7,857	86	192	-	
Manhole	Worsley St	2005	100		7,857	86	192	-	
Manhole	Worsley St	2005	100		7,857	86	192	-	
Manhole	Worsley St	2005	100		7,857	86	192	-	
Manhole	Worsley St	2005	100		7,857	86	192	-	
Manhole Manhole	Worsley St	2005	100		7,857 7,857	86	192	-	
Manhole Manhole	Wright Blvd	1987 1989			7,857	68 70			
uviailiillile	Wright Blvd	1			7,857	70 70	210 210		
	Wright Rhyd	1000	. 100	2009	1,007				
Manhole	Wright Blvd Wright Blvd	1989 1989		2080	7.857	70	210	_	
Manhole Manhole	Wright Blvd	1989	100		7,857 7,857	70 70	210 210		
Manhole			100 100	2089	7,857	70 70 79	210 210 199	-	
Manhole Manhole Manhole	Wright Blvd Wright Blvd	1989 1989	100 100 100	2089 2098	7,857 7,857	70	210	-	
Manhole Manhole Manhole	Wright Blvd Wright Blvd Wright Blvd	1989 1989 1998	100 100 100 100	2089 2098 2098	7,857 7,857 7,857	70 79	210 199		



		_	•		Manholes			
Asset	Street	Year Installed	Estimated Life	Replacement Year	Total Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 10 year Forecast
Manhole	Wright Blvd	1998	100	2098	7,857	79	199	-
Manhole	Wright Blvd	1998	100	2098	7,857	79	199	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wright Blvd	2004	100	2104	7,857	85	193	-
Manhole	Wyatt St	1976	100	2076	7,857	57	232	-
Manhole	Wyatt St	1976	100	2076	7,857	57	232	-
Manhole	York St	1921	100	2021	7,857	2	suggested for 10 year capital forecast	7,857
Manhole	York St	1929	100	2029	7,857	10	suggested for 10 year capital forecast	7,857
Manhole	York St	1963	100	2063	7,857	44	270	-
Manhole	York St	1992	100	2092	7,857	73	206	-
Manhole	York St	1897	100	2019	7,857	0	suggested for 10 year capital forecast	7,857
Manhole	Youngs St	1920	100	2020	7,857	1	suggested for 10 year capital forecast	7,857
Manhole	Youngs St	2012	100	2112	7,857	93	187	-
Manhole	Youngs St	2012	100	2112	7,857	93	187	-
Manhole	Youngs St	2012	100	2112	7,857	93	187	-
Total					17,277,543		429,360	2,742,093



# Appendix C Detailed Water Rate Calculations



## Table C-1 City of Stratford Water Service Capital Budget Forecast Uninflated \$

Uninflated \$												
Description	Budget	Total					Fore	cast				
Description	2019	IOIAI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Capital Expenditures												
Asphalt Resurfacing		925,000	75,000	75,000	75,000	100.000	100.000	100.000	100.000	100.000	100,000	100.000
House Service Applications		900,000	-	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100.000
Miscellanous Repairs	125,000	950,000	100,000	100,000	100,000	100,000	50,000	100,000	100,000	100,000	100,000	100,000
Romeo Reservoir Works	120,000	750,000	-	100,000	75,000	100,000	100,000	75,000	75,000	75,000	75,000	75,000
Mechanical Upgrades to Wells	120,000	100,000	100,000	100,000	73,000	100,000	100,000	73,000	73,000	73,000	73,000	75,000
Watermain Relining Various Streets		3,525,000	175,000	250,000	-	350,000	250,000	500,000	500,000	500,000	500,000	500,000
Frederick Street from Romeo to Burritt and Burritt		3,323,000	175,000	250,000	-	330,000	250,000	300,000	300,000	300,000	300,000	300,000
to Douro	340,000	-										1
St Vincent Street	255,535											
St Vincent WM from Patricia to Redford add funds	250,000	-										
Ballantyne Street	612,532											
Pleasant Drive from Ontario to Devon	190,000	-										
Hydrant Distribution Monitoring	, , , , ,	150,000	30,000	30,000	30,000	30,000	30,000					
Redford Cresent - at St. Vincent		540,000	540,000	/	/	,	/					
Huron Street - Matilda to Douglas		1,582,500	332,500				620,000	630.000				
Queen Street Storm Trunk Sewer		75,000	75,000				020,000	000,000				
Avondale Ave from Huron to Cemetery		375,000	70,000	375,000								
MacKenzie - St. David to Cambria		220,000		220,000								
Jones Street LI from Caledonia to Brittania		225,000		220,000	225,000							
Queen Street local reconstruction Lakeside to On	taria	350,000			350,000							
Willow Street from Pleasant to Devon - WM Relinit		615,000			615,000							
	Ig I				615,000	270.000						
Brunswick Street from Queen to King		270,000				270,000						
Mercer Street from Caledonia to Brittania		230,000				230,000						
Lorne Downie Intersection Improvements	<u> </u>	-				-						
Ontario from Queen to Parkview -WM replacemen	t I	200,000				200,000	222 222					
St. Vincent St. South - Redford to West Gore		290,000					290,000					
Queen Street from Ontario to Brunswick		170,000					170,000					-
Argyle Street - St. David to Cambria		220,000					220,000					<b></b>
Daly Avenue, Birmingham to Worsely		300,000						300,000				<b>H</b>
Water Street from Parkview to Queen		200,000						200,000				ļ
McDonald Street Willow to Devon		200,000							200,000			
Mowat Street from West Gore to Brydges		340,000							340,000			1
Perth Street - Downie to Borden		520,000							520,000			1
Laurier Street - East Gore to Norfolk		150,000								150,000		1
Brunswick Street - King to Romeo		240,000								240,000		
Douglas Street - Huntingdon to Avondale		360,000								360,000		
Birmingham St - Cambria to Daly		275,000								275,000		
Woods Street - Birmingham to St. Vincent		270,000									270,000	
Norfolk Street Borden to Romeo		400,000									400,000	
Stratford Street		220,000									220,000	
Avon St - Avondale to McLagan		360,000									-,	360,000
Grange Street - Waterloo to Front		450,000										450,000
Queen Street - Brunswick to Douro		225,000										225.000
Studies:												
Water & Wastewater Rate Study (Water Portion)	27,500	75,000					37,500					37,500
Water Model / Master Plan	50,073	-					07,000					37,500
Water Needs Assessment Update	50,075	150,000				75,000					75,000	
Total Capital Expenditures	1 970 640	17,397,500	1,427,500	1,250,000	1,570,000		1,967,500	2,005,000	1,935,000	1,900,000	1,840,000	1,947,500
Tia. Tapila. Expoliana co	.,0.0,040	,001,000	.,-21,000	.,200,000	.,0.0,000	.,000,000	.,001,000	_,000,000	.,000,000	.,000,000	.,0-10,000	1,041,00

7.250,000 | 1,570,000 |
Table C-2
City of Stratford
Water Service
Capital Budget Forecast

Capital Budget Forecast Inflated \$												
	Budget			iniiated \$			For	recast				
Description	2019	Total	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Conital France ditues	2019		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Capital Expenditures		4 040 000	75.000	77.000	70.000	400.000	400.000	440.000	440.000	445.000	447.000	400.000
Asphalt Resurfacing	-	1,019,000 995,000	75,000	77,000 102,000	78,000 104,000	106,000 106,000	108,000 108,000	110,000 110,000	113,000	115,000	117,000 117,000	120,000 120,000
House Service Applications			400,000						113,000	115,000		
Miscellanous Repairs	125,000	1,041,000	100,000	102,000	104,000	106,000	54,000	110,000	113,000	115,000	117,000	120,000
Romeo Reservoir Works	120,000	825,000	-	102,000	78,000	106,000	108,000	83,000	84,000	86,000	88,000	90,000
Mechanical Upgrades to Wells	-	100,000	100,000	-	-	- 074 000	- 074 000	-	-	-	-	-
Watermain Relining Various Streets	340,000	3,945,000	175,000	255,000	-	371,000	271,000	552,000	563,000	574,000	586,000	598,000
Frederick Street from Romeo to Burritt and Burritt to Douro St Vincent Street	255,535	-	-	-	-	-	-	-	-	-	-	-
St Vincent Street St Vincent WM from Patricia to Redford add funds	250,000	-		-	-		-	-	-	-	-	-
Ballantyne Street	612,532	-		-	-		-	-		-	-	-
		-	-	-	-	-	-	-	-	-	-	-
Pleasant Drive from Ontario to Devon	190,000	156,000	30.000					-	-	-	-	-
Hydrant Distribution Monitoring Redford Cresent - at St. Vincent	-	540,000	540.000	31,000	31,000	32,000	32,000	-	-	-	-	-
Huron Street - Matilda to Douglas	-	1,700,000	333,000	-	-		671,000	696.000	-	-	-	-
Queen Street Storm Trunk Sewer	-	75,000	75,000	-	-	-	6/1,000	696,000	-	-	-	-
Avondale Ave from Huron to Cemetery	-	383.000	75,000	383.000	-	-	-	-	-	-	-	-
MacKenzie - St. David to Cambria		224.000	-	224.000	-							
Jones Street LI from Caledonia to Brittania	-	224,000	-	224,000	234,000	-	-	-	-	-	-	-
	-			-	364.000				-	-	-	-
Queen Street local reconstruction Lakeside to Ontario	-	364,000	-		, , , , , , , , , , , ,	-	-	-	-	-	-	-
Willow Street from Pleasant to Devon - WM Relining		640,000		-	640,000							
Brunswick Street from Queen to King	-	287,000	-	-	-	287,000	-	-	-	-	-	-
Mercer Street from Caledonia to Brittania Ontario from Queen to Parkview -WM replacement	-	244,000	-	-	-	244,000 212,000	-	-	-	-	-	-
	-	212,000	-	-	-	212,000		-	-	-	-	-
St. Vincent St. South - Redford to West Gore	-	314,000 184,000	-	-	-		314,000	-	-		-	-
Queen Street from Ontario to Brunswick	-		-	-	-	-	184,000	-	-	-	-	-
Argyle Street - St. David to Cambria	-	238,000 331,000	-	-	-	-	238,000	331,000	-	-	-	-
Daly Avenue, Birmingham to Worsely Water Street from Parkview to Queen	-	221,000	-	-	-	-	-	221,000	-	-	-	-
McDonald Street Willow to Devon	-	225,000	-	-	-	-	-		225,000	-	-	-
Mowat Street from West Gore to Brydges	-	383,000		-	-		-	-	383,000	-	-	-
Perth Street - Downie to Borden	-	586,000	-	-	-		-	-	586,000	-	-	-
Laurier Street - East Gore to Norfolk	-	172,000	-	-	-		-	-	300,000	172,000	-	-
Brunswick Street - King to Romeo	-	276,000		-	-		-	-	-	276.000	-	-
Douglas Street - Huntingdon to Avondale	-	414,000	-	-	-	-	-	-	-	414,000	-	-
Birmingham St - Cambria to Daly	<del>-</del>	316,000		-					-	316,000	-	
Woods Street - Birmingham to St. Vincent	<u> </u>	316,000	-	-	-	-	-	-	-	- 310,000	316,000	-
Norfolk Street Borden to Romeo	<u> </u>	469,000		-	-			-		-	469,000	-
Stratford Street	-	258,000	-	-	-	-	-	-	-	-	258,000	-
Avon St - Avondale to McLagan	-	430,000	-	-	-	-	-	-	-	-	258,000	430,000
Grange Street - Waterloo to Front	-	538,000	-	-	-		-	-	-	-	-	538,000
Queen Street - Waterioo to Front  Queen Street - Brunswick to Douro	<u> </u>	269,000	-					-		-	-	269,000
Studies:	<del> </del>	203,000		-			<u> </u>	<u> </u>			-	209,000
Water & Wastewater Rate Study (Water Portion)	27,500	86,000	-	-	_	-	41,000	-	-	-	-	45,000
Water Model / Master Plan	50,073	-		-			41,000	_	-	_	_	43,000
Water Needs Assessment Update	30,073	168,000				80,000					88,000	
Total Capital Expenditures	1,970,640	19,178,000		1,276,000	1,633,000	1,650,000	2,129,000	2,213,000	2,180,000	2,183,000	2,156,000	
Capital Financing	1,570,040	13,170,000	1,420,000	1,270,000	1,033,000	1,030,000	2,123,000	2,213,000	2,100,000	2,103,000	2,130,000	2,330,000
Provincial/Federal Grants		-										
Development Charges Reserve Fund	_	-	_	_	_		_	_	-	_	-	_
Non-Growth Related Debenture Requirements	-	-	-	-	-		-	-	-	-	_	-
Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	-
Operating Contributions	<u> </u>		-	-	-	-	-		-	-	-	
Lifecycle Reserve Fund	<del>                                     </del>	-									-	-
Water Reserve	1,970,640	19,178,000	1,428,000	1,276,000	1,633,000	1,650,000	2,129,000	2,213,000	2,180,000	2,183,000	2,156,000	2,330,000
Total Capital Financing	1,970,640				1,633,000		2,129,000	2,213,000	2,180,000	2,183,000	2,156,000	
Total Supital Financing	1,310,040	13,170,000	1,720,000	1,210,000	1,000,000	1,000,000	2,:23,000	2,2:3,000	2,100,000	2,100,000	2,100,000	2,000,000



### Table C-3 City of Stratford Water Service Schedule of Non-Growth Related Debenture Repayments

#### Inflated \$

Debenture	2019	Principal					For	recast				
Year	2019	(Inflated)	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2020		-		-	ı	-	-	-		-	-	-
2021		-			ı	-	-	-	1	-	-	-
2022		-				-	-	-	-	-	-	-
2023		-					-	-	1	-	-	-
2024		-						-		-	-	-
2025		-								-	-	-
2026		-								-	-	-
2027		-									-	-
2028		-										-
2029		-										
Total Annual Debt Charges	-	-	-	-	-	-	-	-	-	-	-	-

## Table C-4 City of Stratford Water Service Schedule of Growth Related Debenture Repayments

				Inflated \$								
Debenture	2019	Principal					Foi	recast				
Year	2019	(Inflated)	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2020		-		-	-	-	-	-	ı	-	-	-
2021		-			-	-	-	-	-	-	-	-
2022		-				-	-	-	-	-	-	-
2023		-					-	-	-	-	-	-
2024		-						-		-	-	-
2025		-							ı	-	-	-
2026		-								-	-	-
2027		-									-	-
2028	•	-										-
2029		-										
Total Annual Debt Charges	-	-	-	-	-	-	-	-	-	-	-	-

## Table C-5 City of Stratford Water Service Water Reserves/ Reserve Funds Continuity Inflated \$

			Inflated \$								
Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Opening Balance	3,557,589	2,378,957	1,974,607	1,913,827	1,693,350	1,662,898	1,278,125	978,982	887,213	971,066	1,271,765
Transfer from Operating	733,420	975,489	1,168,541	1,371,222	1,578,989	1,713,053	1,889,979	2,066,592	2,243,168	2,425,680	2,613,990
Transfer to Capital	1,970,640	1,428,000	1,276,000	1,633,000	1,650,000	2,129,000	2,213,000	2,180,000	2,183,000	2,156,000	2,330,000
Transfer to Operating	-	-	-	-	-	-	-	-	-	-	-
Closing Balance	2,320,369	1,926,446	1,867,148	1,652,049	1,622,339	1,246,951	955,104	865,574	947,382	1,240,746	1,555,755
Interest	58,589	48,161	46,679	41,301	40,558	31,174	23,878	21,639	23,685	31,019	38,894

#### Table C-6 City of Stratford Water Service Water Development Charges Reserve Fund Continuity

			Inflated \$								
Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Opening Balance	414,665	463,516	514,370	567,279	622,315	681,460	742,929	806,849	856,955	908,907	957,217
Development Charge Proceeds	37,546	38,308	39,073	39,858	42,524	43,349	44,241	29,204	29,784	24,963	25,452
Transfer to Capital	-		-		-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-	-
Closing Balance	452,211	501,825	553,443	607,137	664,839	724,809	787,170	836,053	886,739	933,870	982,669
Interest	11,305	12,546	13,836	15,178	16,621	18,120	19,679	20,901	22,168	23,347	24,567
Required from Development Charges	-	-	-		-	-	-	-	-	-	-

## Table C-7 City of Stratford Water Service Water Rate Stabilization Reserve Inflated \$

			mmato a φ								
Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Opening Balance	169,892	460,021	460,021	460,021	460,021	460,021	460,021	460,021	460,021	460,021	460,021
Transfer from Operating	290,129	-	-	-	,	-	-	-	-	-	-
Transfer to Capital	-	-	-				-		-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-	
Closing Balance	460.021	460.021	460.021	460.021	460.021	460.021	460.021	460.021	460.021	460.021	460.021



# Table C-8 City of Stratford Water Services Operating Budget Forecast Inflated \$

		 	Ing Budget Inflated \$	Orccast							
Proceeding to the con-	Budget	0000	0004	0000	0000		recast	2222	0007	0000	0000
Description Expenditures	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Operating Costs						'		1			
4300 Water Admin								1			
G-350-4300-2100 F.T. SALARIES & WAGES	336,880	-	-	-	-	_ !	-	-	-	-	-
G-350-4300-2110 P.T. SALARIES & WAGES	-	-	-	-	-	!	-		-	-	-
G-350-4300-2500 F.T. BENEFITS	115,330	21,950	22,400	22,800	23,300	23,800	24,300	24,800	25,300	25,800	26,300
G-350-4300-2510 P.T. BENEFITS G-350-4300-2700 OTHER PAYROLL EXPENSES	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
G-350-4300-2700 OTHER PATROLL EXPENSES G-350-4300-3010 CLOTHING	5,100	7,000	7,100	7,200	7,300	7,400	7,500	7,700	7,900	8,100	8,300
G-350-4300-3050 MATERIALS	5,000	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400
G-350-4300-3070 OFFICE SUPPLIES AND PAPER	1,200	800	800	800	800	800	800	800	800	800	800
G-350-4300-3090 PHOTOCOPIER EXPENSE	280	300	300	300	300	300	300	300	300	300	300
G-350-4300-3100 POSTAGE	1,000	500	500	500	500	500	500	500	500	500	500
G-350-4300-3110 PRINTING	900	700	700	700	700	700	700	700	700	700	700
G-350-4300-3120 MEALS & MEETING COSTS G-350-4300-4020 SERVICE CONTRACTS	220 3,500	300 3,500	300 3,600	300 3,700	300 3,800	300 3,900	300 4,000	300 4,100	300 4,200	300 4,300	300 4,400
G-350-4300-4040 CONSULTANTS	5,100	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900	6,000
G-350-4300-4050 CONTRACTORS	545,000	545,000	555,900	567,000	578,300	589,900	601,700	613,700	626,000	638,500	651,300
G-350-4300-4060 COURIER/FREIGHT	100	100	100	100	100	100	100	100	100	100	100
G-350-4300-4090 LEGAL	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
G-350-4300-4097 MEMBERSHIPS	3,830	5,400	5,500	5,600	5,700	5,800	5,900	6,000	6,100	6,200	6,300
G-350-4300-4100 SERVICES - OTHER	-	-	-	450,000	-	474.000	-	402.000	-	-	-
G-350-4300-4101 CONSERVATION AUTHORITY LEVY G-350-4300-4107 BUILDING MAINTENANCE	417,600	438,500	447,300	456,200	465,300	474,600	484,100	493,800	503,700	513,800	524,100
G-350-4300-4110 TELEPHONE - BASIC	5,290	2.060	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100
G-350-4300-4120 TELEPHONE - CELL PHONES	8,000	7,680	7,800	8,000	8,200	8,400	8,600	8,800	9,000	9,200	9,400
G-350-4300-4142 TRAINING - EXPENSES	35,000	36,000	36,700	37,400	38,100	38,900	39,700	40,500	41,300	42,100	42,900
G-350-4300-7850 CITY OWNED RENTAL EXPENSE	1,250	-	-	-	-	-	-	-	-	-	-
G-350-4300-7900 INTERFUNC I IONAL TRANSFERS	189,500	193,300	197,200	201,100	205,100	209,200	213,400	217,700	222,100	226,500	231,000
G-350-4300-9010 OFFICE EQUIPMENT AND FURNISHINGS		1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
G-350-4300-9040 TOOLS & SMALL EQUIPMENT 4325 WATER SUPPLY	5,000	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900
G-350-4325-2100 F.T. SALARIES & WAGES	154,160	_	_	-	_	- '	_	- '	- '	-	_
G-350-4325-2110 P.T. SALARIES & WAGES	2,180	_	-	-	_	- '	_	- '	- '	_	-
G-350-4325-2500 F.T. BENEFITS	42,860	-	-	-	-	- '	-	- '	- '	-	-
G-350-4325-2510 P.T. BENEFITS	180	-	-	-	-	- '	-	- '	- '	-	-
G-350-4325-3040 HYDRO	325,000	340,750	357,800	375,700	394,500	414,200	434,900	456,600	479,400	503,400	528,600
G-350-4325-3050 MATERIALS	120,000	120,000	126,000	132,300	138,900	145,800	153,100	160,800	168,800	177,200	186,100
G-350-4325-3120 MEALS & MEETING COSTS G-350-4325-3140 R & M - BUILDINGS & EQUIP (EXCL	500	500	500	500	500	500	500	500	500	500	500
VEHICLES)	15,000	15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700
G-350-4325-3180 VEHICLE - FUEL	2,000	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900
G-350-4325-4020 SERVICE CONTRACTS	213,000	230,000	234,600	239,300	244,100	249,000	254,000	259,100	264,300	269,600	275,000
G-350-4325-4040 CONSULTANTS	15,000	30,000	30,600	31,200	31,800	32,400	33,000	33,700	34,400	35,100	35,800
G-350-4325-4050 CONTRACTORS	30,000	30,000	30,600	31,200	31,800	32,400	33,000	33,700	34,400	35,100	35,800
G-350-4325-4060 COURIER/FREIGHT	200	200	200	200	200	200	200	200	200	200	200
G-350-4325-4100 SERVICES - OTHER	5,290	-	-	-	-	- 1	-	i - 1	-	-	-
G-350-4325-4110 TELEPHONE - BASIC G-350-4325-7850 CITY OWNED RENTAL EXPENSE	35,000	35.000	35.700	36.400	37,100	37,800	38.600	39.400	40.200	41,000	41,800
G-350-4325-7900 INTERFUNCTIONAL TRANSFERS	-	-	-	-	- 37,100	-	-	-			
4350 WATER DISTRIBUTION								1			
G-350-4350-2100 F.T. SALARIES & WAGES	462,480	971,620	991,100	1,010,900	1,031,100	1,051,700	1,072,700	1,094,200	1,116,100	1,138,400	1,161,200
G-350-4350-2110 P.T. SALARIES & WAGES	6,550	9,360	9,500	9,700	9,900	10,100	10,300	10,500	10,700	10,900	11,100
G-350-4350-2500 F.T. BENEFITS	128,590	267,450	272,800	278,300	283,900	289,600	295,400	301,300	307,300	313,400	319,700
G-350-4350-2510 P.T. BENEFITS	550	800	800	800	800	800	800	800	800	800	800
G-350-4350-3040 HYDRO G-350-4350-3050 MATERIALS	10,080 230,000	9,000 230,000	9,500 241,500	10,000 253,600	10,500 266,300	11,000 279,600	11,600 293,600	12,200 308,300	12,800 323,700	13,400 339,900	14,100 356,900
G-350-4350-3080 MISCELLANEOUS	230,000	230,000	241,500	253,000	200,300	279,000	293,000	308,300	323,700	339,900	330,900
G-350-4350-3100 POSTAGE	-	_	_	-	_	_ !	_	-	-	_	_
G-350-4350-3120 MEALS & MEETING COSTS	820	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
G-350-4350-3180 VEHICLE - FUEL	35,000	35,000	36,800	38,600	40,500	42,500	44,600	46,800	49,100	51,600	54,200
G-350-4350-3190 VEHICLE - REPAIRS & EXPENSES	20,000	30,000	30,600	31,200	31,800	32,400	33,000	33,700	34,400	35,100	35,800
G-350-4350-4020 SERVICE CONTRACTS	63,000	78,500	80,100	81,700	83,300	85,000	86,700	88,400	90,200	92,000	93,800
G-350-4350-4040 CONSUTANTS G-350-4350-4050 CONTRACTORS	60,000	5,000 117,000	5,100 119,300	5,200 121,700	5,300 124,100	5,400 126,600	5,500 129,100	5,600 131,700	5,700 134,300	5,800 137,000	5,900 139,700
G-350-4350-4060 COURIER/FREIGHT	- 60,000	-	-	121,700	124,100	120,000	129,100	131,700	134,300	137,000	139,700
G-350-4350-4095 MAINTENANCE CONTRACTS	5,000	_	_	-	_	_ !	_	-	_	_	_
G-350-4350-4100 SERVICES - OTHER	-	-	-	-	-	- '	-	- '	- '	-	-
G-350-4350-4142 TRAINING EXPENSES	-	-	-	-	-	- !	-	-	- '	-	-
G-350-4350-5040 RENTAL OF BLDG MACHINERY &	_	_	-	-	_	- '	_	- '	- '	_	-
EQUIPMENT	100 500					1 '		1			
G-350-4350-7850 CITY OWNED RENTAL EXPENSE G-350-4350-7900 INTERFUNCTIONAL TRANSFERS	129,500 95,300	96,730	98,700	100,700	- 102,700	104,800	106,900	109,000	- 111,200	113,400	- 115,700
G-350-4350-9040 TOOLS & SMALL EQUIPMENT	-	-	-		-		-	-			
Sub Total Operating	3,895,820	3,935,600	4,036,400	4,140,000	4,246,700	4,356,900	4,470,600	4,588,200	4,709,400	4,834,300	4,963,400
Capital-Related			_	, <sup>7</sup>	į T	1	7	1	<sup>7</sup>	7	<u> </u>
Existing Debt (Principal) - Growth Related Existing Debt (Interest) - Growth Related						1		1			ĺ
New Growth Related Debt (Principal)		_	_	-	_	- '	_	- '	- '	-	_
New Growth Related Debt (Interest)		_	-	-	_	- '	_	- '	-		] -
Existing Debt (Principal) - Non-Growth Related	3,151	3,234	3,320	586		1 '		1			
Existing Debt (Interest) - Non-Growth Related	260	181	99	15		1		1			ĺ
New Non-Growth Related Debt (Principal)		-	-	-	-	- '	-	- '	- '	-	-
New Non-Growth Related Debt (Interest)		-	-	-	-	-	-	-	-	-	-
Transfer to Capital Transfer to Stabilization Reserve	200 400	-	-	-	-	-	-	-	- !	-	-
Transfer to Stabilization Reserve Transfer to Capital Reserve Fund	290,129 733,420	975,489	1,168,541	1,371,222	1,578,989	1,713,053	1,889,979	2,066,592	2,243,168	2,425,680	2,613,990
Sub Total Capital Related	1,026,960	975,469	1,171,960	1,371,823	1,578,989	1,713,053	1,889,979	2,066,592 2,066,592	2,243,168	2,425,680 2,425,680	2,613,990 2,613,990
Total Expenditures	4,922,780	4,914,504	5,208,360	5,511,823	5,825,689	6,069,953	6,360,579	6,654,792	6,952,568	7,259,980	7,577,390
Revenues											
Base Charge	950,244	1,103,856	1,228,365	1,355,013	1,484,271	1,535,793	1,625,187	1,713,525	1,800,903	1,888,974	1,977,723
G-350-4300-1130 ONTARIO GRANTS	-	-	-	-	-	-	-	-	- !	-	-
G-350-4300-1770 RECOVERABLES G-350-4325-1405 USER FEES	2,400	-	-	-	-	-	-	-	- !	-	_
G-350-4325-1405 USER FEES G-350-4325-1470 RENTALS & LEASES	2,400	-	-	-	-	-	-	-	-	-	
G-350-4325-1470 RENTALS & LEASES G-350-4325-1770 RECOVERABLES			-	-		[ '		-	-	-	]
G-350-4350-1405 USER FEES	2,220	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300	2,300
G-350-4350-1470 RENTALS & LEASES	-	-	-	-	-	-	-	-	-	-	-
G-350-4350-1765 GAIN ON DISPOSAL OF ASSETS	-	-	-	-	-	- '	-	-	-	-	-
G-350-4350-1770 RECOVERABLES	6,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
G-350-4350-1850 CITY OWN RENTAL REVENUE	170,000	-	-	-	-	-	-	-	-	-	-
Otto - Do	İ		-	-	-	-	-	-	-	-	_
Other Revenue											
Contributions from Development Charges Reserve Fund	-	-		! <u> </u>	! <u> </u>	<u> </u>	ļ <u>į</u> į	ļ <u>į</u> į	- 1	-	
Contributions from Development Charges Reserve Fund Contributions from Reserves / Reserve Funds	1,130.864	1,114,156	1,238,665	1,365,313	1,494 571	1,546,003	1,635,497	1,723,825	1,811,203	1,899,274	1 988 022
Contributions from Development Charges Reserve Fund	1,130,864 3,791,916	1,114,156 3,800,348	1,238,665 3,969,695			1,546,093 4,523,860	1,635,487 4,725,092	1,723,825 4,930,967	1,811,203 5,141,365	1,899,274 5,360,706	1,988,023 5,589,367



# Table C-9 City of Stratford Water Services Water Rate Forecast Inflated \$

			πιπαισα ψ								
Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Total Water Billing Recovery	3,791,916	3,800,348	3,969,695	4,146,510	4,331,118	4,523,860	4,725,092	4,930,967	5,141,365	5,360,706	5,589,367
Declining Block Structure											
Volume Forecast By Block (m <sup>3</sup> )											
First 3 m <sup>3</sup> per month	450,000	451,548	454,608	457,668	460,728	463,788	466,848	469,296	471,132	472,968	474,804
After 3 m <sup>3</sup> per month	2,614,624	2,619,096	2,627,936	2,636,776	2,645,616	2,654,456	2,663,296	2,670,368	2,675,672	2,680,976	2,686,280
Block Total Volume	3,064,624	3,070,644	3,082,544	3,094,444	3,106,344	3,118,244	3,130,144	3,139,664	3,146,804	3,153,944	3,161,084
Minimum Charge (Below 3m <sup>3</sup> of usage per month)	7.50	7.50	7.80	8.11	8.44	8.77	9.12	9.49	9.87	10.26	10.67
Declining Block Rates (\$/m3)											
Block 1	2.50	2.50	2.60	2.70	2.81	2.92	3.04	3.16	3.29	3.42	3.56
Block 2	1.02	1.02	1.06	1.10	1.15	1.19	1.24	1.29	1.34	1.40	1.45
Annual Percentage Change		0%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Block Revenue											
Block 1	1,125,000	1,128,870	1,181,981	1,237,534	1,295,641	1,356,416	1,419,980	1,484,523	1,549,944	1,618,223	1,689,485
Block 2	2,666,916	2,671,478	2,787,714	2,908,975	3,035,477	3,167,444	3,305,113	3,446,444	3,591,421	3,742,482	3,899,882
Block Total Revenue	3.791.916	3.800.348	3.969.695	4.146.510	4.331.118	4.523.860	4.725.092	4.930.967	5.141.365	5.360.706	5.589.367



# Appendix D Detailed Wastewater Rate Calculations



#### Table D-1 City of Stratford Wastewater Service Capital Budget Forecast Uninflated \$

Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   August   Capital Expenditures   Capital E									ninflated \$	UI				
Capital Expenditures   Capital Expenditures												Total	Budget	Description
Asphalt Resurfacing	2029	2	2028	2027	2026	2025	2024	2023	2022	2021	2020		2019	
House Service Applications														Capital Expenditures
Sewer Relining Various Streets	100,000	1	100,000	100,000	100,000	100,000	100,000	100,000	75,000	75,000		850,000	40,000	Asphalt Resurfacing
Pumping Station Upgrades   75,000   900,000   100,000   75,000   75,000   75,000   75,000   100,000   10	100,000	1	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	100,000	House Service Applications
Residential Service Upgrades - sewer subsidy program	500,000	Ę	500,000	500,000	500,000	400,000	300,000	350,000	350,000	250,000		3,650,000	60,000	Sewer Relining Various Streets
Program	100,000	1	100,000	100,000	100,000	100,000	75,000	75,000	75,000	75,000	100,000	900,000	75,000	Pumping Station Upgrades
Basement Isolation   35,000   300,000   350,000   350,0	75,000		75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	750,000	144,000	
WPCP Improvements         200,000         3,500,000         350,000 <td>30,000</td> <td><math>\vdash</math></td> <td>30.000</td> <td>30.000</td> <td>30.000</td> <td>30.000</td> <td>30.000</td> <td>30.000</td> <td>30.000</td> <td>30.000</td> <td>30.000</td> <td>300.000</td> <td>35.000</td> <td></td>	30,000	$\vdash$	30.000	30.000	30.000	30.000	30.000	30.000	30.000	30.000	30.000	300.000	35.000	
WPCP Process Review         250,000         250,000           Grit Removal System         350,000         500,000           Frederick Street from Romeo to Burritt and Burritt to Douro         60,000         -           St Vincent WM from Patricia to Redford add funds         170,000         -           St Vincent WM from Patricia to Redford add funds         170,000         -           Pleasant Drive from Ontario to Devon         350,000         -           Filter Bed Replacement         300,000         150,000           SCADA and PLC Upgrades         20,000         20,000           Redford Cresent - at St. Vincent         410,000         410,000           Huron Street - Matilda to Douglas         810,000         500,000         310,000           Queen Street Storm Trunk Sewer         220,000         220,000         Avondale Ave from Huron to Cemetery         300,000           MacKenzie - St. David to Cambria         160,000         160,000         90,000         90,000           Waldies Lane         200,000         200,000         90,000         90,000	350,000													
Grit Removal System   350,000   500,000   500,000     500,000	,	<del>                                     </del>		000,000	000,000	222,222	222,222	222,222	000,000		222,222			
Frederick Street from Romeo to Burritt and Burritt to Douro		<del>                                     </del>											350,000	
to Douro										000,000				
Pleasant Drive from Ontario to Devon   350,000   -												-	60,000	
Filter Bed Replacement         300,000         150,000         150,000           SCADA and PLC Upgrades         20,000         20,000         150,000           Redford Cresent - at St. Vincent         410,000         410,000         500,000           Huron Street - Matilda to Douglas         810,000         500,000         310,000           Queen Street Storm Trunk Sewer         220,000         220,000           Avondale Ave from Huron to Cemetery         300,000         300,000           MacKenzie - St. David to Cambria         160,000         160,000           Waldies Lane         200,000         200,000														
SCADA and PLC Upgrades         20,000         20,000           Redford Cresent - at St. Vincent         410,000         410,000           Huron Street - Matilda to Douglas         810,000         500,000           Queen Street Storm Trunk Sewer         220,000         220,000           Awondale Ave from Huron to Cemetery         300,000         300,000           MacKenzie - St. David to Cambria         160,000         160,000           Waldies Lane         200,000         200,000		<u> </u>											350,000	
Redford Cresent - at St. Vincent						150,000			150,000	, in the second second				
Huron Street - Matilda to Douglas       810,000       500,000       310,000         Queen Street Storm Trunk Sewer       220,000       220,000       300,000         Avondale Ave from Huron to Cemetery       300,000       300,000       300,000         MacKenzie - St. David to Cambria       160,000       160,000       160,000         Waldies Lane       200,000       200,000       100,000											20,000	20,000		SCADA and PLC Upgrades
Queen Street Storm Trunk Sewer         220,000         220,000            Avondale Ave from Huron to Cemetery         300,000         300,000            MacKenzie - St. David to Cambria         160,000         160,000            Waldies Lane         200,000         200,000											410,000	410,000		Redford Cresent - at St. Vincent
Avondale Ave from Huron to Cemetery         300,000         300,000            MacKenzie - St. David to Cambria         160,000         160,000            Waldies Lane         200,000         200,000						310,000	500,000					810,000		Huron Street - Matilda to Douglas
MacKenzie - St. David to Cambria         160,000         160,000           Waldies Lane         200,000         200,000											220,000	220,000		Queen Street Storm Trunk Sewer
Waldies Lane 200,000 200,000										300,000		300,000		Avondale Ave from Huron to Cemetery
										160,000		160,000		MacKenzie - St. David to Cambria
Jones Street I from Caledonia to Brittania 170 000 170 000									200,000			200,000		Waldies Lane
									170,000			170,000		Jones Street LI from Caledonia to Brittania
Oueen Street local reconstruction Lakeside to		$\vdash$							,					
120,000   120,00	l.								120,000			120,000		Ontario
Brunswick Street from Queen to King 200,000 200,000		$\vdash$						200.000				200.000		
Mercer Street from Caledonia to Brittania 155,000 155,000								155,000				155.000		
St. Vincent St. South - Redford to West Gore 50,000 50,000		$\vdash$					50.000					,		
Queen Street from Ontario to Brunswick 140,000 140,000		_	-											
Argyle Street - St. David to Cambria 160,000 160,000		_	-											
Daly Avenue, Birmingham to Worsely 285,000 285,000		<del>                                     </del>				285 000	.00,000							
Water Street from Parkview to Queen 150,000 150,000		+												
McDonald Street Willow to Devon 160,000 160,000		<del>                                     </del>			160 000	.00,000								
Mowat Street from West Gore to Brydges 250,000 250,000		+												
		+			,									, 0
Laurier Street - East Gore to Norfolk 150,000 150,000		+		150,000	300,000							,		
Brunswick Street - King to Romeo 190,000 190,000		+												
Douglas Street - Huntingdon to Avondale   270,000   270,000		$\vdash$												
Douglas Street - Hullingdon to Avondate		$\vdash$												
Woods Street - Birmingham to St. Vincent 220,000 220,000 220,000		$\vdash$	220.000	200,000			-							
Viviodos Street - Birmingham to St. Vincent   220,000   220,000   300,000   300,000		$\vdash$												
Norrolk Street Borden to Romeo   300,000   300,000   160,000   160,000		₩	,											
	300,000	<del></del>	160,000											
		_												
	410,000	_												
Queen Street - Brunswick to Douro 190,000 19	190,000											190,000		Queen Street - Brunswick to Douro
Studies:			<u> </u>							_				Studies:
Water & Wastewater Rate Study (Wastewater Portion)         27,500         75,000         37,500         37,500	37,500						37,500					75,000	27,500	
	2,192,500		1 025 000	2.065.000	2.045.000	2.050.000	1 017 500	1 435 000	1 605 000	2 165 000	1 205 000	10 005 000	1 611 500	/

#### Table D-2 City of Stratford Wastewater Service Capital Budget Forecast Inflated \$

Inflated \$												
Description	Budget	Total					Fore	cast				
Description	2019	iotai	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Capital Expenditures												
Asphalt Resurfacing	40,000	944,000	_	77,000	78,000	106,000	108,000	110,000	113,000	115,000	117,000	120,000
House Service Applications	100,000	1,095,000	100,000	102,000	104,000	106,000	108,000	110,000	113,000	115,000	117,000	120,000
Sewer Relining Various Streets	60,000	4,078,000	-	255,000	364,000	371,000	325,000	442,000	563,000	574,000	586,000	598,000
Pumping Station Upgrades	75,000	991,000	100,000	77,000	78,000	80,000	81,000	110,000	113,000	115,000	117,000	120,000
Residential Service Upgrades - sewer subsidy program	144,000	822,000	75,000	77,000	78,000	80,000	81,000	83,000	84,000	86,000	88,000	90,000
Basement Isolation	35,000	328,000	30,000	31,000	31,000	32,000	32,000	33,000	34,000	34,000	35,000	36,000
WPCP Improvements	200,000	3,831,000	350,000	357,000	364,000	371,000	379,000	386,000	394,000	402,000	410,000	418,000
WPCP Process Review	-	255,000	-	255,000	-	-	-	-	-		- 10,000	- 10,000
Grit Removal System	350,000	510,000	_	510,000	_	-	-	-	_	_	-	-
Frederick Street from Romeo to Burritt and Burritt to Douro	60,000	-		-		_	-	_	_	_	-	-
St Vincent WM from Patricia to Redford add funds	170,000	_		-			_	_	_	_	_	-
Pleasant Drive from Ontario to Devon	350,000	_		_			_	_	_	_	_	-
Filter Bed Replacement	-	322,000		-	156,000	-	-	166,000	-			-
SCADA and PLC Upgrades	-	20,000	20,000		130,000			100,000	-			-
Redford Cresent - at St. Vincent	-	410,000	410,000	-		-	-		-	-		-
Huron Street - Matilda to Douglas	<del></del>	883,000	410,000	-		-	541,000	342,000	-	-	-	-
Queen Street Storm Trunk Sewer	-	220,000	220,000	-	-	-	541,000	342,000	-	-	-	-
Avondale Ave from Huron to Cemetery	<del></del>	306,000	-	306,000		-	-	-	-			-
MacKenzie - St. David to Cambria	-	163,000		163,000	-			-	-			
Waldies Lane	<del>-</del>	208,000		163,000	208,000	-	-		-	-	-	-
Jones Street LI from Caledonia to Brittania		177,000			177,000			-	-	-	-	-
Queen Street local reconstruction Lakeside to Ontario	-	125,000	-	-	125,000	-	-	-	-	-	-	-
Brunswick Street from Queen to King	-	212,000	<del></del>	-		212,000		-	-	-	-	-
Mercer Street from Caledonia to Brittania	<del></del>	164,000	<del></del>	-	-	164,000	-	-	-	-	-	-
		_				,						
St. Vincent St. South - Redford to West Gore	-	54,000	-	-		-	54,000 152,000	-	-	-	-	-
Queen Street from Ontario to Brunswick		152,000 173,000	-	-	-	-			-	-	-	-
Argyle Street - St. David to Cambria  Daly Avenue, Birmingham to Worsely	-	315,000	-	-	-	-	173,000	315,000	-	-	-	-
, , ,					-		-		-		-	-
Water Street from Parkview to Queen	-	166,000 180,000	-	-	-	-	-	166,000	180,000	-	-	-
McDonald Street Willow to Devon		_						-				
Mowat Street from West Gore to Brydges	-	282,000	-	-	-	-	-	-	282,000	-	-	-
Perth Street - Downie to Borden	-	428,000	-	-	-	-	-	-	428,000	-	-	-
Laurier Street - East Gore to Norfolk	-	172,000	-	-	•	-	-	-	-	172,000	-	-
Brunswick Street - King to Romeo	-	218,000	-	-	-	-	-	-	-	218,000	-	-
Douglas Street - Huntingdon to Avondale	-	310,000	-	-	•	-	-	-	-	310,000	-	-
Birmingham St - Cambria to Daly	-	230,000	-	-	-	-	-	-	-	230,000	-	-
Woods Street - Birmingham to St. Vincent	-	258,000	-	-	-	-	-	-	-	-	258,000	-
Norfolk Street Borden to Romeo	-	351,000	-	-	-	-	-	•	-	-	351,000	-
Stratford Street	-	187,000	-	-	-	-	-	-	-	-	187,000	-
Avon St - Avondale to McLagan	-	359,000	-	-	•	-	-	•	-	-	-	359,000
Grange Street - Waterloo to Front	-	490,000	-	-	-	-	-	-	-	-	-	490,000
Queen Street - Brunswick to Douro	-	227,000	-	-	-	-	-	-	-	-	-	227,000
Studies:	-	-	-	-	-	-	-	-	-	-	-	-
Water & Wastewater Rate Study (Wastewater Portion)	27,500	86,000	-	-	-	-	41,000	-	-	-	-	45,000
Total Capital Expenditures	1,611,500	20,702,000	1,305,000	2,210,000	1,763,000	1,522,000	2,075,000	2,263,000	2,304,000	2,371,000	2,266,000	2,623,000
Capital Financing												
Provincial/Federal Grants		-										
Development Charges Reserve Fund	-	-	-	-	-	-	-	-	-	-	-	-
Non-Growth Related Debenture Requirements		-	-	-	-	-	-	-	-	-	-	-
Growth Related Debenture Requirements	-	-	-	-	-	-	-	-	-	-	-	-
Operating Contributions		-	-	-	-	-	-	-	-	-	-	-
Lifecycle Reserve Fund	-	-		-		-	-	-	-	-	-	-
Wastewater Reserve	1,611,500	20,702,000	1,305,000	2,210,000	1,763,000	1,522,000	2,075,000	2,263,000	2,304,000	2,371,000	2,266,000	2,623,000
Total Capital Financing	1,611,500	20,702,000	1,305,000	2,210,000	1,763,000	1,522,000	2,075,000	2,263,000	2,304,000	2,371,000	2,266,000	2,623,000



#### Table D-3 City of Stratford Wastewater Service Schedule of Non-Growth Related Debenture Repayments

Inflated \$

Debenture	2019	Principal					Fore	ecast				
Year	2019	(Inflated)	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2020		-		-	-	-	-	-	-	-	-	-
2021		-			-	-	•	-	•	-	-	-
2022						-	ı	-	ı	-	-	-
2023							ı	-	ı	-	-	-
2024								-	ı	-	-	-
2025		-							-	-	-	-
2026		-								-	-	-
2027											-	-
2028												-
2029		-										
Total Annual Debt Charges	-	-	-	-	-	-	-	-	-	-	-	-

#### Table D-4 City of Stratford Wastewater Service Schedule of Growth Related Debenture Repayments

Inflated \$

Debenture	2019	Principal					Fore	ecast				
Year	2019	(Inflated)	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2020		-		-	-	-	1	-	-	-	-	-
2021		-			-	-	•	-	-	-	-	-
2022		-				-	-	-	-	-	-	-
2023		-					-	-	-	-	-	-
2024		-						-	-	-	-	-
2025		-							-	-	-	-
2026		-								-	-	-
2027		-									-	-
2028		-										-
2029		-										
Total Annual Debt Charges	-	-	-	-	-	-	-	-	-	-	-	-

### Table D-5 City of Stratford Wastewater Service

Wastewater Reserves/ Reserve Funds Continuity

Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Opening Balance	(1,554,101)	(1,047,758)	(106,206)	(341,946)	241,478	1,407,946	2,377,112	3,518,986	5,020,618	6,936,313	9,414,183
Transfer from Operating	2,356,197	2,249,143	1,982,600	2,340,534	2,654,128	2,986,188	3,319,045	3,683,178	4,117,517	4,514,255	5,200,025
Transfer to Capital	1,611,500	1,305,000	2,210,000	1,763,000	1,522,000	2,075,000	2,263,000	2,304,000	2,371,000	2,266,000	2,623,000
Transfer to Operating	212,800	-	-	-	-	-	-	-	-	-	-
Closing Balance	(1,022,203)	(103,615)	(333,605)	235,588	1,373,606	2,319,134	3,433,157	4,898,164	6,767,135	9,184,568	11,991,208
Interest	(25,555)	(2,590)	(8,340)	5,890	34,340	57,978	85,829	122,454	169,178	229,614	299,780

#### Table D-6 City of Stratford Wastewater Service Wastewater Development Charges Reserve Fund Continuity

Inflated \$ Description 2021 2022 2019 2027 2028 2025 Opening Balance Development Charge Proceeds 
 977,005
 1,323,098
 1,684,284
 2,061,037
 2,469,595
 2,895,480

 313,822
 320,106
 326,485
 348,324
 355,263
 362,369
 645,479 307,697 3,339,295 3,667,786 4,009,390 4,319,440 313,822 243,815 239,032 204,698 208,776 Transfer to Capital Transfer to Operating 2,409,361 2,824,859 **3,257,849** 81,446 Closing Balance Interest 953,175 1,643,204 3,578,328 3,911,600 1,290,827 2,010,768 4,214,088 4,528,216 97,790 41,080 89,458 105,352 113,205 23,829 32,271 50,269 60,234 70,621

#### Table D-7 City of Stratford Wastewater Service Wastewater Stabilization Reserve

			Inflated \$								
Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Opening Balance	295,914	295,914	295,914	295,914	295,914	295,914	295,914	295,914	295,914	295,914	295,914
Transfer from Operating	-	-	-	-	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-	-	-	-	-
Transfer to Operating	-	-	-	-	-	-	-	-	-	-	-
Closing Balance	295,914	295,914	295,914	295,914	295,914	295,914	295,914	295,914	295,914	295,914	295,914



## Table D-8 City of Stratford Wastewater Services Operating Budget Forecast

Control   Cont	Inflated \$												
Proceedings				****	****	****	****			****		****	****
Commonwealth   Comm		2019		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
14-00-1	·												
Concentration   Concentratio	4100 SANITARY ADMIN												
Concentration   Concentratio		47,900		-	-	-	-	-	-	-	-	-	-
Company   Comp		-		-	-	-	-	-	-	-	-	-	-
Sample   Sample   Profession   Sample	G-330-4100-2500 F.T. BENEFITS	19,600		-	-	-	-	-	-	-	-	-	-
SA304-H0-08-00 COLTHING		-		-	-	-	-	-	-	-	-	-	-
2300-04-03-06-06-06-06-06-06-06-06-06-06-06-06-06-													300
Stand And Stand Septimize CONTINCTION   1,000   1,00													2,400
C-303-4116-4-081 CONTRACTORS   1-500   5.000		1 '				,	,	,				,	
C-S031-476-070 PEMBERS SHOPE    1/00   12/00   12/00   12/00   12/00   12/00   12/00   13/00   13/00   13/00   13/00   13/00   14/00					,		,	,				,	
				,	,		,					,	900
C-303-011-01-01   C-303-011-01-01   C-303-011-01   C-303-011-01   C-303-011-01-01   C-303-011-01-01   C-303-011-01-01   C-303-011-01-01   C-303-011-01-01   C-303-011-01-01   C-303-011-01-01   C-303-011-01-01   C-303-011-01-01   C-303-011-01-01   C-303-01-01-01-01-01   C-303-01-01-01-01-01   C-303-01-01-01-01-01   C-303-01-01-01-01-01   C-303-01-01-01-01-01   C-303-01-01-01-01-01   C-303-01-01-01-01-01-01   C-303-01-01-01-01-01-01   C-303-01-01-01-01-01-01-01-01-01-01-01-01-01-		-		-	-	-	-	-	-		-	-	-
C-3030-101-0-12 TRANNINGDPENEES   1,500		1.760		_	_	_	_	_	-	_	_	_	_
C-3304-H09-400 FEER AMERIES   10.200   10.000   10.000   10.000   11.200   11.200   11.200   11.200   11.200   11.200   12.000		12,000		12,000	12,200	12,400	12,600	12,900	13,200	13,500	13,800	14,100	14,400
C-330-4109-3001 PT-SA-MERIC SAVINGES	G-330-4100-7850 CITY OWNED RENTAL EXPENSE	1,500		-	-	-	-	-	-	-	-	-	-
### ### ### ### ### ### ### ### ### ##	G-330-4100-7900 INTERFUNCTIONAL TRANSFER	-		10,200	10,400	10,600	10,800	11,000	11,200	11,400	11,600	11,800	12,000
G-300-1426-200FT DEMENTED   50,000   525,000   525,000   575,000   637,000   638,000   788,000		4,000		5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900
S309-1425-5800 FT SENERTIS   S49.920   S00.000   25.000   S51.200   S77.810   G07.00   C88.200   C77.00   C72.000   C72.000   C73.000	4125 SANITARY TREAT												
G3304 125-3100 METHOR   G330		-		-	-	-	-	-	-	-	-	-	-
\$330-4125-3109 METINACCORTS \$350-4125-4005 CENNUL INTERTACTS \$25.000   25.000   25.000   26.500   27.000   27.500   28.500   28.000   28.500   27.000   27.500   28.000   28.000   28.500   27.000   27.500   28.000   28.000   28.000   28.000   27.000   27.000   28.000   28.000   28.000   27.000   28.000   28.000   28.000   28.000   27.000   28.000   28.000   28.000   28.000   28.000   27.000   28.000   28.000   28.000   28.000   28.000   27.000   28.0		-		-	-	-	-	-	-	-			
S330-1425-400 SERVICE CONTRACTS   25,000   25,000   26,500   26,500   27,500   27,500   28,100   23,700   23,000   20,000   23,		499,920		500,000	525,000	551,300		607,800	638,200		/03,600	738,800	775,700
2.530-012-9-400 CONSULTANTS		25,000		25,000	25 500	26,000		27 000	27 500		29 700	20 200	20,000
9330-4122-4090 CMTRACTORS - COVA 5,00 5,00 5,00 5,00 5,00 5,00 5,00 5,0		25,000		,	,	-,	,		,			,	29,900
C-3304-124-9690 LECAL   S.000   S.00		978.600			,		,					,	1,192,900
						, ,	, ,	, ,					5,900
C-330-4150-2100 FT. SALAPRES NAVGES 306,140 323,950 330,400 337,000 343,700 343,700 346,800 357,000 358,800 357,000 35		-		-	-	-	-	-	-	-	-	-	-
### ### ### ### ### ### ### ### ### ##	G-330-4125-4100 SERVICES - OTHER	-		-	-	-	-	-	-	-	-	-	-
GS304-159-2160 PT. SALARIES & WAGES   308,140   323,990   337,000   337,000   376,000   376,000   379,00		-		-	-	-	-	-	-	-	-	-	-
G-330-4150-2110 PT. SALARIES A WAGES													
G-330-4150-2600 PT. IEBNETITS G-330-4150-2600 PT. IEBNETITS G-330-4150-2600 PT. IEBNETITS G-330-4150-3040 WTERY /SEWAGE 400 400 400 400 400 400 400 400 400 40		308,140		323,950	330,400	337,000	343,700	350,600	357,600	364,800	372,100	379,500	387,100
G-3304160-2510 PT. BENEFITS G-3304160-3040 MTROR   48,300   50,710   53,200   55,900   58,700   61,600   64,700   67,900   71,300   74,900   76,600   73,300   74,900   76,600   76,900		- 04 070		-	- 04.000	-	-	-	- 04 600	-	-	- 07.000	-
G-330-1450-346W HYDRO		84,270		82,940	84,600	86,300	88,000	89,800	91,600	93,400	95,300	97,200	99,100
G-330-4160-308 MATERIALS 30,000 50,000 51,000 52,000 53,000 54,00 55,00 55,000 55,000 57,400 400 400 400 400 400 400 400 400 400		48 300		- 50.710	53 200	55,000	- 58 700	61 600	64 700	67 900	71 300	74 900	78 600
G-330-4150-3080 MSTERLNE   S0,000   S1,000   S1,000   S2,000   S3,000   S3,000   S5,000   S						,	,	,				,	400
G-330-4150-3480 R SKI-DUNIDNGS & EQUIP (EXCL VE) G-330-4150-3480 R M- BUILDINGS & EQUIP (EXCL VE) G-330-4150-3480 VEHICLE - FUEL 12,000 18,000													59,700
G-330-4150-3160 VEHICLE - FUEL   12,000		-		-	-	-	-	-	-		-	-	-
G-330-1150-025 ENFUCE CONTRACTS 50,000 56,500 57,000 58,800 8,200 8,200 8,200 8,200 8,200 8,200 8,200 8,200 8,200 8,200 8,200 8,200 8,200 8,200 8,200 9,200	G-330-4150-3140 R & M - BUILDINGS & EQUIP (EXCL VEF	35,000		15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700
G-330-4150-4020 SERVICE CONTRACTS 50,000	G-330-4150-3180 VEHICLE - FUEL			18,000		19,800	20,800	21,800	22,900	24,000	25,200	26,500	27,800
S.304-150-040 CONSULTANTS				,	,		,					,	47,700
G-330-4150-4050 CONTRACTORS   45,000   87,500   89,300   91,100   29,000   94,800   96,700   98,600   100,600   102,						,							67,500
G-330-4150-4060 COUNER/REFIGHT 50 200 200 200 200 200 200 200 200 200							,					,	9,800
G-330-4150-4100 SERVICES - OTHER G-330-4150-410 TELEPHONE - BASIC G-330-4150-410 TELEPHONE - BASIC G-330-4150-410 TELEPHONE - DAILY OF BLDG, MACHINERY 8 EQUIPMENT G-330-4150-7300 INTERFUNCTIONAL TRANSFERS G-330-4150-7300 INTERFUNCTIONAL TRA							,						
G-330-4150-4110 TELEPHONE - BASIC						200					200		200
G-330-4150-420 TELEPHONE - CELL PHONES				_	_	_	_	_	_	_	_	_	_
G-330-4150-5904 PRENTAL OF BLDG, MACHINERY & EQUIPMENT G-330-4150-7950 OTYOWNED RENTAL EXPENSE G-330-4150-7950 NTERFUNCTIONAL TRANSFERS G-330-4150-9040 TOCLS & SMALL EQUIPMENT  Sub Total Operating Z-385,320 Z-385,320 Z-387,420 Z-462,300 Z-529,400				1.620	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1,700
CollyMeNT   CollyMent   Collyment   Coll				,-	,	,	· ·	,	,	,	,	,	,
G-330-4150-900 INTERFUNCTIONAL TRANSFERS G6,000 68,600 70,000 71,400 72,800 74,300 75,800 77,300 78,800 80,40 9.300-4150-9040 TOOLS & SMALL EQUIPMENT 2,385,320 2,385,320 2,397,420 2,462,300 2,598,500 2,598,500 2,670,000 2,744,000 2,829,600 2,899,600 2,898,300 3,065,80 2.301-818-818-818-818-818-818-818-818-818-8	EQUIPMENT	-		-	-	-	-	-	-	-	-	-	-
G-330-4150-9040 TOOLS & SMALL EQUIPMENT  2,385,320  2,397,420  2,462,300  2,529,400  2,598,500  2,670,000  2,744,000  2,820,400  2,899,600  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  3,065,80  2,891,300  2,891,300  3,065,80  2,891,300  2,891,300  3,065,80  2,891,300  2,891,300  3,065,80  2,891,300  2,891,300  3,065,80  2,891,300  2,891,300  3,065,80  2,891,300  2,891,300  2,891,300  3,065,80  2,891,300  2,891,300  3,065,80  2,891,300  2,891,300  2,891,300  3,065,80  2,891,300  2,891,300  2,891,300  2,891,300  2,891,300  3,065,80  2,891,300  2,891,300  2,891,300  2,891,300  2,891,300  2,891,300  2,891,300  2,891,300  2,891,300  2,891,300  3,065,80  2,891,30				-	-	-	-	-	-	-	-	-	-
Sub Total Operating   2,385,320   2,387,420   2,462,300   2,529,400   2,529,400   2,598,500   2,670,000   2,744,000   2,820,400   2,899,600   2,981,300   3,065,80		66,000		67,300	68,600	70,000	71,400	72,800	74,300	75,800	77,300	78,800	80,400
Sub Total Operating   2,385,320   2,397,420   2,462,300   2,598,500   2,598,500   2,670,000   2,744,000   2,820,400   2,889,600   2,981,300   3,065,80   2,281,300   2,281,300	G-330-4150-9040 TOOLS & SMALL EQUIPMENT	-		-	-	-	-	-	-	-	-	-	-
Capital-Related Existing Debt (Principal) - Growth Related Existing Debt (Interest) - Growth Related Debt (Principal) - Non-Growth Related Debt (P	Sub Total Operating	2 385 320		2 397 420		2 529 400		2 670 000	2 744 000		2 899 600		3 065 800
Existing Debt (Principal) - Growth Related Existing Debt (Interest) - Growth Related Debt (Interest	Capital-Related	_,300,020		_,551,720	_, /0_,000	_,525,400	_,555,555	_,510,000	_,,000	_,5_0,400	_,555,000	_,551,560	0,300,000
Existing Debt (Interest) - Growth Related Debt (Principal) New Growth Related Debt (Interest)  Existing Debt (Interest)  E	Existing Debt (Principal) - Growth Related												
New Growth Related Debt (Interes's)  2,088,307  2,092,440  2,432,779  2,340,479  2,321,799  2,323,219  2,324,678  2,326,177  2,248,596  2,250,179  1,962,606  245,999  New Non-Growth Related Debt (Principal) New Non-Growth Related Debt (Interest) Transfer to Capital Transfer to Stabilization Reserve Transfer to Capital Reserve Fund  2,356,197  2,249,143  1,982,600  2,340,534  2,564,128  2,986,188  3,319,045  3,683,178  4,117,517  4,514,255  5,200,028  5,129,194  4,971,872  5,170,599  5,369,656  5,600,326  5,870,033  6,140,538  6,442,322  6,735,192  7,071,990  7,408,61  Total Expenditures  8,240,145  1,000	Existing Debt (Interest) - Growth Related												
Existing Debt (Principal) - Non-Growth Related 2,088,307 684,689 684,689 684,689 680,289 755,220 688,643 624,399 560,626 496,816 432,967 369,079 307,556 245,99 Non-Growth Related Debt (Interest) - Non-Growth Related Debt (Interest) - Non-Growth Related Debt (Interest) - Non-Growth Related Debt (Interest) - Non-Growth Related Debt (Interest)	New Growth Related Debt (Principal)			-	-	-	-	-	-	-	-	-	-
Existing Debt (Interest) - Non-Growth Related Debt (Principal) New Non-Growth Related Debt (Principal) New Non-Growth Related Debt (Interest) Transfer to Capital Transfer to Capital Transfer to Capital Reserve Transfer to Capital Reserve Transfer to Capital Reserve Transfer to Capital Reserve Transfer to Capital Reserve Fund  2,356,197  2,249,143  1,982,600  2,340,534  2,654,128  2,986,188  3,319,045  3,683,178  4,117,517  4,514,255  5,200,02  Sub Total Capital Related  5,129,194  4,971,872  5,170,599  7,369,292  7,369,295  7,369,656  5,600,326  5,870,033  6,140,538  6,442,322  6,735,192  7,071,990  7,408,61  Total Expenditures  8,390,000  1,053,612  1,174,404  1,296,726  1,420,578  1,584,609  1,750,680  1,955,400  1,000  10	New Growth Related Debt (Interest)			-	-	-	-	-	-	-	-	-	-
New Non-Growth Related Debt (Principal) New Non-Growth Related Debt (Interest) Transfer to Capital Transfer to Stabilization Reserve Transfer to Capital Reserve Fund  2,356,197  2,249,143  1,982,600  2,340,534  2,654,128  2,986,188  3,319,045  3,683,178  4,117,517  4,514,255  5,200,02  Sub Total Capital Related  5,129,194  4,971,872  5,170,599  5,369,656  5,600,326  5,870,033  6,140,538  6,442,322  6,735,192  7,071,990  7,408,61  Total Expenditures Revenues  Base Charge G-330-4150-1770 RECOVERABLES  10,000  10,00													1,962,600
New Non-Growth Related Debt (Interest) Transfer to Capital Transfer to Stabilization Reserve Transfer to Capital Reserve Fund  2,356,197  2,249,143  1,982,600  2,340,534  2,654,128  2,986,188  3,319,045  3,683,178  4,117,517  4,514,255  5,200,02  Sub Total Capital Reserve Fund  5,129,194  4,971,872  5,170,599  5,369,656  5,600,326  5,870,033  6,140,538  6,442,322  6,735,192  7,071,990  7,408,61  Total Expenditures  Revenues  Base Charge G-330-4150-1470 RECOVERABLES  10,000	ů	684,689		630,289	755,220	688,643	624,399	560,626	496,816		369,079	307,556	245,991
Transfer to Capital Transfer to Stabilization Reserve Transfer to Stabilization Reserve Transfer to Stabilization Reserve Transfer to Capital Reserve Fund  2,356,197  2,249,143  1,982,600  2,340,534  2,654,128  2,986,188  3,319,045  3,683,178  4,117,517  4,514,255  5,200,02  Sub Total Expenditures  7,514,514  7,369,292  7,632,899  7,899,056  8,198,826  8,540,033  8,884,538  9,262,722  9,634,792  10,053,290  10,074,41  Revenues  Base Charge G-330-4150-1405 USER FEES	, , ,			-	-	-	-	-	-	-	-	<u>-</u>	-
Transfer to Stabilization Reserve Transfer to Capital Reserve Fund 2,356,197 2,249,143 1,982,600 2,340,534 2,654,128 2,986,188 3,319,045 3,683,178 4,117,517 4,514,255 5,200,02 Sub Total Capital Related 5,129,194 4,971,872 5,170,599 5,369,656 5,600,326 5,870,033 6,140,538 6,442,322 6,735,192 7,071,990 7,408,61 Total Expenditures  Revenues Base Charge 900,000 1,053,612 1,174,404 1,296,726 1,420,578 1,584,609 1,000 10,000		-				-		-		_			_
Transfer to Capital Reserve Fund 2,356,197 2,249,143 1,982,600 2,340,534 2,654,128 2,986,188 3,319,045 3,683,178 4,117,517 4,514,255 5,200,02   Sub Total Capital Related 5,129,194 4,971,872 5,170,599 5,369,656 5,600,326 5,870,033 6,140,538 6,442,322 6,735,192 7,071,990 7,408,61   Total Expenditures 7,514,514 7,369,292 7,632,899 7,899,056 8,198,826 8,540,033 8,884,538 9,262,722 9,634,792 10,053,290 10,474,41   Revenues 8 Base Charge 900,000 1,000 10,000	Transfer to Capital Transfer to Stabilization Reserve			-	_	_						-	
Sub Total Capital Related   5,129,194   4,971,872   5,170,599   5,369,656   5,600,326   5,870,033   6,140,538   6,442,322   6,735,192   7,071,990   7,408,61	Transfer to Capital Reserve Fund	2,356,197		2,249,143	1,982,600	2,340,534	2,654,128	2,986,188	3,319,045	3,683,178	4,117,517	4,514,255	5,200,025
Revenues Base Charge G-330-4125-1770 RECOVERABLES 10,000 1	Sub Total Capital Related												7,408,617
Base Charge 900,000 1,053,612 1,174,404 1,296,726 1,420,578 1,584,609 1,750,680 1,955,400 2,159,355 2,404,254 2,650,98 (3.30-4125-1770 RECOVERABLES 10,000 1	Total Expenditures	7,514,514		7,369,292	7,632,899	7,899,056	8,198,826	8,540,033	8,884,538	9,262,722	9,634,792	10,053,290	10,474,417
G-330-4125-1770 RECOVERABLES 10,000 1		000 000		4.050.040	4 474 404	4 000 700	4 400 570	4 504 000	4 750 000	1.055.100	0.450.055	0.404.054	0.050.000
G-330-4150-1405 USER FEES G-330-4150-1770 RECOVERABLES 10,000 10,													
G-330-4150-1770 RECOVERABLES 10,000 1		10,000			10,000						10,000	10,000	- 10,000
G-330-4150-1850 CITY OWN RENTAL REVENUE 100,000		10,000			10 000						10 000	10 000	10,000
Other Revenue	G-330-4150-1176 REGOVERABLES G-330-4150-1850 CITY OWN RENTAL REVENUE			-	-				-			-	
Contributions from Reserves / Reserve Funds         212,800         - <th< td=""><td>Other Revenue</td><td>.,</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-  </td><td>-</td></th<>	Other Revenue	.,			-	-	-	-	-	-	-	-	-
Total Operating Revenue 1,232,800 1,073,612 1,194,404 1,316,726 1,440,578 1,604,609 1,770,680 1,975,400 2,179,355 2,424,254 2,670,98	Contributions from Development Charges Reserve Fund	-		-	-	-	-	-	-	-	-	-	-
	Contributions from Reserves / Reserve Funds			-	-	-	-	-	-	-	-	-	-
Wastewater Billing Recovery - Operating   6,281,714   6,295,680   6,438,495   6,582,330   6,758,248   6,935,424   7,113,858   7,287,322   7,455,437   7,629,036   7,803,42	Total Operating Revenue												2,670,989
	IWastewater Billing Recovery - Operating	6.281.714		6,295,680	6,438,495	6,582,330	6,758,248	6,935,424	7,113,858	7,287,322	7,455,437	7,629,036	7,803,428

## Table D-9 City of Stratford Wastewater Services Wastewater Rate Forecast

			Inflated \$	)							
Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Total Wastewater Billing Recovery	6,281,714	6,295,680	6,438,495	6,582,330	6,758,248	6,935,424	7,113,858	7,287,322	7,455,437	7,629,036	7,803,428
Declining Block Structure											
Volume Forecast By Block (m 3)											
First 3 m <sup>3</sup> per month	450,000	451,548	454,608	457,668	460,728	463,788	466,848	469,296	471,132	472,968	474,804
After 3 m <sup>3</sup> per month	2,614,624	2,619,096	2,627,936	2,636,776	2,645,616	2,654,456	2,663,296	2,670,368	2,675,672	2,680,976	2,686,280
Block Total Volume	3,064,624	3,070,644	3,082,544	3,094,444	3,106,344	3,118,244	3,130,144	3,139,664	3,146,804	3,153,944	3,161,084
Minimum Charge (Below 3m <sup>3</sup> of usage per month)	12.42	12.42	12.66	12.90	13.17	13.44	13.71	13.98	14.25	14.55	14.85
Declining Block Rates (\$/m <sup>3</sup> )											
Block 1	4.14	4.14	4.22	4.30	4.39	4.48	4.57	4.66	4.75	4.85	4.95
Block 2	1.69	1.69	1.72	1.75	1.79	1.83	1.87	1.91	1.95	1.99	2.03
Annual Percentage Change		0%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Block Revenue											
Block 1	1,863,000	1,869,409	1,918,446	1,967,972	2,022,596	2,077,770	2,133,495	2,186,919	2,237,877	2,293,895	2,350,280
Block 2	4,418,714	4,426,272	4,520,049	4,614,357	4,735,652	4,857,654	4,980,363	5,100,402	5,217,560	5,335,142	5,453,148
Block Total Revenue	6,281,714	6,295,680	6,438,495	6,582,330	6,758,248	6,935,424	7,113,858	7,287,322	7,455,437	7,629,036	7,803,428