

ST. THOMAS SANITARY SEWER AND STORMWATER SYSTEMS

Sewer Rate Study
2023 - 2032



St. Thomas Sanitary Sewer and Stormwater Systems

2023 – 2032 Sewer Rate Study

Table of Contents

1	INTRODUCTION.....	2
1.1	Background	2
1.2	Study Objectives.....	3
1.3	Regulatory Landscape in Ontario	3
1.3.1	Ontario Water Resources Act, 2022.....	3
1.3.2	Safe Drinking Water Act, 2002; Financial Plan Regulation (O. Reg. 453/07).....	3
1.3.3	The Municipal Act (2002)	4
1.3.4	The Water Opportunities Act (WOA)	5
1.3.5	Infrastructure for Jobs and Prosperity Act, 2015: Asset Management Planning for Municipal Infrastructure (O. Reg 588/17)	5
2	DATA SOURCES	6
3	CUSTOMER COUNTS AND SEWER USE DEMAND FORECAST	6
3.1	Growth and Servicing Requirements – Sanitary Sewer System.....	6
3.1.1	Southwold Sanitary Sewer Flows	7
3.1.2	Central Elgin Sanitary Sewer Flows	7
3.1.3	St. Thomas Sanitary Sewer Flows.....	8
3.1.4	St. Thomas Sanitary Sewer System Total Billed Sewer Use Forecast.....	8
3.2	Growth and Servicing Requirements – Stormwater System	9
4	FULL COST OF SERVICES.....	9
4.1	Capital Plan 2022 - 2032.....	10
4.1.1	Sanitary Sewer System Capital Plan 2022-2032	10
4.1.2	Stormwater System Capital Plan 2022-2032	10
4.2	Operations and Maintenance Expenditure Forecast	11
4.2.1	Sanitary Sewer System O&M Expenditure Forecast	13
4.2.2	Stormwater System O&M Expenditure Forecast.....	13
4.3	Lifecycle Analysis	13
4.3.1	Sanitary Sewer System – Lifecycle Analysis	13
4.3.2	Stormwater System – Lifecycle Analysis.....	14
5	FULL COST RECOVERY PLAN.....	14

St. Thomas Sanitary Sewer and Stormwater Systems

2023 – 2032 Sewer Rate Study

5.1	Development Charges.....	14
5.2	Grant Funding	15
5.3	Debt Financing.....	15
5.4	Reserve Financing	15
5.4.1	Capital Funding.....	16
5.4.2	Sewer Reserve Fund Continuity Forecast.....	16
5.4.3	Connection Charge Reserve Fund Continuity Forecast.....	17
5.5	Operating Revenues – Sanitary Sewer.....	18
5.5.1	Residential.....	18
5.5.2	Commercial / Institutional.....	19
5.5.3	Industrial	20
5.6	Operating Revenues – Stormwater	21
5.6.1	Residential and Small Property Commercial (<1800 m ²).....	21
5.6.2	Industrial and Large Property Commercial (>1800 m ²).....	21
5.6.3	Impact on Average Residential Users Annual Bill.....	22
6	RECOMMENDATIONS	23
	Appendix A: 2022-2032 Capital Plans	24
	Appendix B: Operating Budget Forecasts	30
	Appendix C: Lifecycle Analysis – Sanitary Sewer System	33
	Appendix D: Lifecycle Analysis – Sanitary and Stormwater Shared Assets.....	95
	Appendix E: Lifecycle Analysis – Stormwater System	97
	Appendix F: Capital Plan Financing	155
	Appendix G: Operating Expense and Revenue Forecasts.....	156

1 INTRODUCTION

1.1 Background

The City of St. Thomas currently provides sanitary sewer and wastewater treatment services to the City of St. Thomas Sub-urban wastewater service area, which includes the City of St. Thomas, portions of the Municipality of Central Elgin (Ontario Hospital Corridor, East Side Development Area, and Lynhurst Development Area) and the Township of Southwold (Lynhurst and Ferndale Development Areas). The historical sanitary sewer customer profile is presented in Table 1-1, to the right.

Table 1-1: Historical Customer Counts – Sanitary Sewer Customer Profile				
Municipality	Customer Class	2019	2020	2021
St. Thomas	Residential	14,428	14,790	15,344
	Commercial	657	653	650
	Industrial	147	147	150
Southwold	Residential	210	210	210
Central Elgin	Residential	1,042	1,091	1,187
	Commercial	15	14	14

Table 1-2: 2022 Sanitary Sewer Rates	
Customer Class	Rate (\$/m ³)
Residential	2.41
Commercial/Institutional	0.79
Industrial	1.98

Sanitary Sewer customers are charged a volumetric rate for sanitary sewer services, which is charged as \$/cubic metre (m³) of water consumption. The rate structure currently employed by the City, as presented in Table 1-2, to the left, charges commercial and industrial users at a lower rate, 66% and 18%, respectively, to what is currently charged to residential users.

Stormwater services are provided only for the City of St. Thomas. The historical stormwater customer profile is presented in Table 1-3, to the right.

Stormwater customers are charged a monthly flat rate charge for stormwater services, based on property size and customer class. Residential customers and commercial/institutional customers

Table 1-4: 2022 Storm Sewer Rates	
Customer Class	Rate (\$/month)
Residential	11.70
Small Commercial/Industrial (< 1800 m ²)	11.70
Large Commercial/Institutional (>=1800 m ²)	161.14 / ha
Industrial	161.14 / ha

whose

land area is less than 1,800 m² (0.18 ha) are charged a monthly flat rate, while industrial customers and commercial/institutional customers whose land area is greater than 1,800 m² (0.18 ha) are charged a monthly flat rate per hectare of property area. The 2022 Stormwater rates are presented in Table 1-4, to the left.

Table 1-3: Historical Customer Counts – Storm Sewer Customer Profile				
Municipality	Customer Class	2019	2020	2021
St. Thomas	Residential	14,714	15,076	15,344
	Small Commercial (< 1800 m ²)	453	449	450
	Large Commercial (> 1800 m ²)	164	167	167
	Industrial	137	137	138

1.2 Study Objectives

City of St. Thomas staff have updated the City's Wastewater Rate Study. The objectives of the study and the steps involved in carrying out this assignment are summarized below:

- Update of wastewater demand assumptions based on analysis of historical sewer use patterns and recent trends;
- Estimate future wastewater system demands by applying revised demand assumptions to the City's growth forecast and historical trends as well as expected growth in Southwold and Central Elgin;
- Compile a capital program that blends lifecycle needs arising from the City's Asset Management, Pollution Prevention Control Plan, and Development Charges (DC) Background Study with specific needs identified by City staff;
- Forecast annual operating costs and rate-based funding requirements;
- Assess adequacy of forecast wastewater rates within the City's by-law in addressing long-term financial plan needs;
- Provide impact assessment on rate payers, and evaluate the competitiveness of proposed rates; and
- Present findings in a report to the City of St. Thomas Council.

1.3 Regulatory Landscape in Ontario

Provincial requirements governing wastewater services primarily include the following:

- The Ontario Water Resources Act (OWRA)
- The Safe Drinking Water Act (SDWA);
 - o Financial Plan Regulation (O. Reg. 453/07)
- The Municipal Act (MA);
- The Water Opportunities and Conservation Act, 2010 (WOA).
- Infrastructure for Jobs and Prosperity Act, 2015
 - o Asset Management Planning for Municipal Infrastructure (O. Reg 588/17)

1.3.1 Ontario Water Resources Act, 2022

The Ontario Water Resources Act provides the authority for the Province to require approvals for sewage works, which ultimately govern the operations and maintenance requirements for sewers and wastewater treatment facilities in Ontario. The Act regulates the discharge of sewage, designates and regulates areas of sewage services and imposes a duty on corporate officers and directors to take all reasonable care to prevent the corporation from discharging materials into or near water that may impair water quality. This duty of care extends to ensuring that the systems are adequately funded. The preparation of this Sewer Rate Study demonstrates that a reasonable level of care is being taken by the City of St. Thomas in ensuring the sewer systems are funded in a sustainable manner.

1.3.2 Safe Drinking Water Act, 2002; Financial Plan Regulation (O. Reg. 453/07)

The Financial Plan Regulation (O.Reg. 453/07), under the Safe Drinking Water Act, 2002 requires that owners of municipal drinking water systems prepare Financial Plans for the drinking water system as a pre-requisite for obtaining a Municipal Drinking Water Licence and recommends Financial Plan preparation for wastewater systems.

A guideline has been provided to assist municipalities in understanding the Provinces direction and provides a detailed discussion on possible approaches to sustainability. The Provinces 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 storm water 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 | Life-cycle 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. |

The preparation of this Study is consistent with the principles above, with a flexible, locally-driven approach to achieving financial sustainability. Financial plans meeting the legislated definition for water systems will not be prepared as part of this project, as there is currently no direct requirement for their preparation, however, this study provides much of the information that would be required to do so.

1.3.3 The Municipal Act (2002)

The Municipal Act, Part VII, Section 293 requires municipalities to establish reserves for dealing with long-term liabilities. This applies directly to the sanitary sewer and stormwater systems and the future liabilities associated with their age and condition. The Municipal Act also permits municipalities to establish fees for cost recovery and requires public input prior to any fee adjustments.

1.3.4 The Water Opportunities Act (WOA)

The WOA was enacted in November 2010 and the regulations are pending. This legislation promotes water conservation and requires municipalities to develop:

- Water conservation plans;
- Sustainability plans for water, wastewater & stormwater management; and
- Asset management plans.

The preparation of this rate study demonstrates the City's commitment to sustainably funded utilities. Financial plans meeting the legislated definition for water systems, will not be prepared as it is currently not a direct requirement, however, this study provides much of the information that would be required to do so.

1.3.5 Infrastructure for Jobs and Prosperity Act, 2015: Asset Management Planning for Municipal Infrastructure (O. Reg 588/17)

On December 13, 2017, the Province approved the regulation that took effect January 1, 2018. Although no provisions took immediate effect, O. Reg 588/2017 set out new requirements for undertaking asset management planning. The preparation of the new asset management plans were phased-in over a period spanning 6 years.

- July 1, 2019 – all municipal governments to have a finalized initial strategic asset management policy. Section 3 of the regulation sets out 12 matters that this policy must include, and the policy must be reviewed every 5 years.
- July 1, 2021: all municipal governments to have an adopted asset management plan for core assets (roads, bridges and culverts, water, wastewater and stormwater management) that discusses current levels of service and the cost of maintaining those services. The regulation sets out both qualitative descriptions and technical metrics for each of the core assets.
- July 1, 2023: Municipal governments to an adopted asset management plan for all of its other municipal infrastructure assets, which also discusses current levels of service and the cost of maintaining those services. The municipality is to set the technical metrics and qualitative descriptions for its other assets (e.g., culture and recreation facilities).
- July 1, 2024: The asset management plans shall include a discussion of proposed levels of service, the assumptions related to the proposed levels of service, what activities will be required to meet proposed levels of service, and a strategy to fund the activities.

The City of St. Thomas passed resolution endorsing the Strategic Asset Management Policy on May 6, 2019. The Asset Management Policy makes commitments that the Asset Management Plan be utilized to inform the Financial Planning aspects of the Safe Drinking Water Act. This study has also been prepared using the Sanitary Sewer and Stormwater Asset Listings prepared for the purposes of satisfying O. Reg. 588/17.

2 DATA SOURCES

The primary sources of data used to prepare this rate study are listed below. In addition, information was also developed from discussions with input from St. Thomas, Southwold, and Central Elgin staff, as required.

Item	Data Source
Asset Age and Life Expectancy	St. Thomas Asset Management Plan
Asset Replacement Costs	Recent Construction or Historical Costs
O&M Cost and Revenue Projections	2022 Operating Budgets
Capital Cost Projections	2023-2032 Capital Plan; St. Thomas Pollution Prevention and Control Plan; D.C. Background Study
Investment/Debt/Reserve Balances	Information provided by City of St. Thomas
Existing Customers	Customer counts provided by Entegrus (Utility billing service provider)
Growth	Information provided by St. Thomas, Southwold, and Central Elgin staff.
Volumes	Historical Billed Sewer Use Volumes provided by Entegrus.
Current Sewer Rates	City of St. Thomas By-law 172-2006, as amended

3 CUSTOMER COUNTS AND SEWER USE DEMAND FORECAST

As noted in section 1.1, the City employs a rate structure of a volumetric rate for sanitary sewer use and a monthly flat rate for stormwater sewer use. The sanitary sewer volumetric rates are imposed based on the property zoning status (residential, institutional/commercial or industrial) and metered water consumption. The stormwater flat rate is imposed based on property area, generally reflecting a higher demand on the stormwater system by larger properties and consequently higher capital infrastructure demands.

This first step in the analysis is important as it demonstrates the current base revenue by source and assumptions used for forecasting purposes. The sewer use demand forecast is prepared by applying average annual sewer use estimates per customer class to anticipated growth. The forecast may adjust the base sewer use levels for anticipated water conservation based on historical trends and industry witnessed practices. Consumption estimates are based on average consumption levels by customer type drawn from municipal billing records over multiple years (2019 – 2021). The non-residential sewer use estimates are generally adjusted to net out large consuming water customers that may skew anticipated demand levels of future growth. Consistent with the customer forecast, the sewer use demand forecast used to determine the wastewater volumetric rates is adjusted to reflect differences in service demands. The customer profile forecast is modelled based on growth figures provided by City staff.

3.1 Growth and Servicing Requirements – Sanitary Sewer System

This section summarizes the forecast sanitary sewer demands for the St. Thomas Sanitary Sewer System and Pollution Control Plant for the period of 2023-2032. In developing this forecast, discussions were held with staff from each benefitting municipality to identify factors affecting future demand.

3.1.1 Southwold Sanitary Sewer Flows

Southwold historical billed sanitary sewer use is demonstrated in Table 3-1 to the right. In light of a billing issue in 2019 that resulted in consumption records lower than normal, Southwold demand has remained relatively stable over the period 2019-2021. The Township of Southwold's development

opportunities where connection directly to the St. Thomas Sanitary Sewer System is unavoidable are minimal. Although the current agreement with the Twp of Southwold includes flows from the total build out of the Ferndale area to be conveyed to the St. Thomas WPCP, the Twp. is currently in the process of undertaking an EA with the intent of redirecting the sanitary sewer flows to an alternate location. Future flows have been conservatively calculated as a result. As such, the 3-year average of historical annual sanitary sewer use of 25,333 m³ is carried forward for Southwold within the study, as presented in Table 3-2, below.

Table 3-1: Southwold - Historical Sanitary Sewer Data					
	Customer Class	2019	2020	2021	3-year average
Customer Counts	Residential	210	210	210	-
Annual Billed Flows (m³)	Residential	24,202	26,016	25,780	-
Average Flow per Customer Class (m³)	Residential	115.25	123.89	122.76	120.63

Table 3-2: Southwold - Sanitary Sewer Use Projections												
	Customer Class	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast	2032 Forecast
Customer Counts	Residential	210	210	210	210	210	210	210	210	210	210	210
Annual Billed Flow (m³)	Residential	25,333	25,333	25,333	25,333	25,333	25,333	25,333	25,333	25,333	25,333	25,333

3.1.2 Central Elgin Sanitary Sewer Flows

Central Elgin historical billed sanitary sewer use is demonstrated in Table 3-3, to the right. In light of a billing issue in 2019 that resulted in reduced sewer use values for that year, Central Elgin sewer use demands have remained relatively stable over the period 2019-2021. Based on discussions with Central Elgin staff, growth within the St. Thomas Suburban Service Area is forecast to increase at 1% per year for both residential and commercial customer classes. As such, Central Elgin sewer use is forecast to increase at 1% per year for the study period and is demonstrated in the Table 3-4, on the following page.

Table 3-3: Central Elgin - Historical Sanitary Sewer Data					
	Customer Class	2019	2020	2021	3-year average
Customer Counts	Residential	1,042	1,091	1,187	-
	Commercial	15	14	14	-
Annual Billed Flows (m³)	Residential	155,638	162,041	160,728	-
	Commercial	14,856	13,105	15,447	-
Average Flow per Customer Class (m³)	Residential	149	148	135	144
	Commercial	990	936	1103	1009

St. Thomas Sanitary Sewer and Stormwater Systems
2023 – 2032 Sewer Rate Study

Table 3-4: Central Elgin - Sanitary Sewer Use Projections												
	Customer Class	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast	2032 Forecast
Customer Counts	Residential	1,199	1,211	1,223	1,235	1,248	1,260	1,273	1,285	1,298	1,311	1,324
	Commercial	14	14	14	14	14	14	14	15	15	15	15
Annual Billed Flow (m³)	Residential	173,156	174,887	176,636	178,402	180,186	181,988	183,808	185,646	187,503	189,378	191,271
	Commercial	14,210	14,281	4,352	14,424	14,496	14,569	14,642	14,715	14,788	14,862	14,937

3.1.3 St. Thomas Sanitary Sewer Flows

The City of St. Thomas historical billed sewer use is demonstrated in Table 3-5, to the right. In light of a billing issue in 2019 that resulted in reduced billed sewer use for that year, St. Thomas demands on the system have remained relatively stable over the period 2019-2021. From discussions with staff, the City of St. Thomas is anticipating growth at a rate of 5% annually for 2023 and 2024, 3% annually for 2025 and 2026 and 2% for the remainder of the forecast period. As such, St.

Table 3-5: St. Thomas - Historical Sanitary Sewer Data					
	Customer Class	2019	2020	2021	3-year average
Customer Counts	Residential	14,428	14,790	15,344	-
	Commercial	657	653	650	-
	Industrial	147	147	150	-
Annual Billed Flows (m³)	Residential	2,183,322	2,576,061	2,483,216	-
	Commercial	504,008	500,703	492,555	-
	Industrial	220,952	266,927	244,943	-
Average Flow per Customer Class (m³)	Residential	151	174	161	162
	Commercial	767	766	757	764
	Industrial	1503	1815	1632	1650

Thomas sewer use demand forecast for the planning period is as presented in Table 3-6, below.

Table 3-6: St. Thomas - Sanitary Sewer Use Projections												
	Customer Class	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast	2032 Forecast
Customer Counts	Residential	15,574	16,353	17,171	17,600	18,040	18,310	18,585	18,864	19,147	19,434	19,725
	Commercial	660	693	727	746	764	776	787	799	811	823	836
	Industrial	152	160	168	172	176	179	182	184	187	190	193
Annual Billed Flow (m³)	Residential	2,529,957	2,656,455	2,789,278	2,859,010	2,930,485	2,974,442	3,019,059	3,064,345	3,110,310	3,156,965	3,204,319
	Commercial	503,980	529,179	555,638	569,529	583,767	592,523	601,411	610,433	619,589	628,883	638,316
	Industrial	251,307	263,872	277,066	283,992	291,092	295,458	299,890	304,389	308,955	13,589	318,293

3.1.4 St. Thomas Sanitary Sewer System Total Billed Sewer Use Forecast

Table 3-7, on the following page, summarizes the forecast billed sanitary sewer use (m³) for the period 2022-2032 by customer location and customer class. Based on these estimates, billed sanitary sewer use is projected to increase from 2022 levels of approximately 3.5 million m³ per year to approximately 4.4 million m³ per year by 2032.

Table 3-7: Total Sanitary Sewer Use Projections												
	Customer Class	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast	2032 Forecast
St. Thomas	Residential	2,529,957	2,656,455	2,789,278	2,859,010	2,930,485	2,974,442	3,019,059	3,064,345	3,110,310	3,156,965	3,204,319
	Commercial	503,980	529,179	555,638	569,529	583,767	592,523	601,411	610,433	619,589	628,883	638,316
	Industrial	251,307	263,872	277,066	283,992	291,092	295,458	299,890	304,389	308,955	313,589	318,293
Southwold	Residential	25,333	25,333	25,333	25,333	25,333	25,333	25,333	25,333	25,333	25,333	25,333
Central Elgin	Residential	173,156	174,887	176,636	178,402	180,186	181,988	183,808	185,646	187,503	189,378	191,271
	Commercial	14,210	14,281	14,352	14,424	14,496	14,569	14,642	14,715	14,788	14,862	14,937
Total Annual Billed Flow (m3)		3,497,942	3,664,007	3,838,302	3,930,690	4,025,359	4,084,314	4,144,143	4,204,860	4,266,477	4,329,009	4,392,469

3.2 Growth and Servicing Requirements – Stormwater System

Table 3-8 below summarizes the customer profile forecast of stormwater system customers within the City of St. Thomas. The commercial class has been broken down into “Small Commercial” (commercially zoned properties that are less than 1800 m²) and “Large Commercial” (commercially zoned properties that are greater or equal to 1800 m²). The same growth rates were applied to each customer class as was applied to the sanitary sewer customer profile, as discussed in section 3.1.3 above.

Table 3-8: Projected Customer Counts - Storm											
	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 Forecast	2032 Forecast
Residential (Flat Rate)	15,574	16,353	17,171	17,600	18,040	18,310	18,585	18,864	19,147	19,434	19,725
Commercial (< 1800 m ²)	459	492	526	545	563	575	586	598	610	622	635
Commercial (>=1800 m ²)	168	168	168	168	168	168	168	168	168	168	168
Industrial (ha Rate)	139	147	155	159	163	166	169	171	174	177	180

4 FULL COST OF SERVICES

The full cost of services assessment identifies the current and future costs (i.e. the full costs) associated with the management of both the sanitary sewer and stormwater systems. The key cost areas include:

- Capital Plan, based on the 11-year capital budget (2022-2032).
- Sanitary Sewer Operations and Maintenance cost projections.
- Stormwater System Operations and Maintenance cost projections.
- Asset Lifecycle Analysis (Reserve Funding).

This section of the study is formatted to address the full cost of providing sanitary sewer services to the City of St. Thomas and Suburban Service Area (ie. Sections of the Municipality of Central Elgin and Township of Southwold) and stormwater services to the City of St. Thomas and supports the cost recovery plan provided in the subsequent section.

4.1 Capital Plan 2022 - 2032

This section summarizes the projects identified within the existing capital plan and DC background study provided by St. Thomas as well as the projects identified in a recently completed Pollution Prevention and Control Plan that had not yet been incorporated into the cities comprehensive capital plan at the time of this study. Within this study, capital plan costs have been separated into Sanitary Sewer and Stormwater funding categories and it has been assumed that future growth will pay for necessary future sewer system upsizing needs through Development Charges (DC's). As such, the capital plans contained within reflect only the non-DC recoverable portion of the expense of any reconstruction/upsizing projects.

4.1.1 Sanitary Sewer System Capital Plan 2022-2032

Table 4-1 below provides a summary of the planned capital expenses for the sanitary sewer system that are anticipated over the period of 2022-2032 in order to execute the sanitary sewer capital plan as detailed in Appendix A. The capital plan expense forecast is presented in inflated dollars. The sanitary sewer system capital plan totals \$77.9 million (INFLATED \$) over the forecast period.

Table 4-1: Capital Expense Forecast - Sanitary Sewer System (INFLATED \$)											
Project Name	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Pollution Prevention and Control Plan Initiatives	265,000	4,068,332	4,118,659	5,878,604	950,572	987,550	4,043,510	3,319,104	1,107,338	1,150,413	1,195,164
Fleet Replacement	-	82,229	-	39,245	46,597	-	142,485	-	505,494	66,966	36,617
Pipeline Rehabilitation and Renewal Projects	1,694,400	2,937,178	967,065	1,856,870	3,181,563	1,057,501	2,084,118	2,229,848	3,754,092	4,344,502	5,283,036
System Expansion Initiatives (Non-D.C. Recoverable)	2,476,677	-	1,142,050	634,163	-	16,284,871	-	-	-	-	-
Total Planned Capital Expense - Sanitary	4,436,077	7,087,739	6,227,774	8,408,882	4,178,732	18,329,921	6,270,112	5,548,952	5,366,924	5,561,882	6,514,817

4.1.2 Stormwater System Capital Plan 2022-2032

Table 4-2 below provides a summary of the planned capital expenses for the stormwater system that are anticipated over the period of 2022-2032 in order to execute the stormwater capital plan as detailed in Appendix A. The capital plan expense forecast is presented in inflated dollars. The stormwater system capital plan totals \$31.5 million (INFLATED \$) over the forecast period.

Table 4-2: Capital Expense Forecast - Stormwater System (INFLATED \$)											
Project Name	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Fleet Replacement	-	95,215	-	39,245	46,597	-	142,485	-	505,494	66,966	36,617
Pipeline Rehabilitation and Renewal Projects	1,844,400	3,026,882	967,065	1,856,870	3,181,563	1,057,501	3,066,989	2,244,921	3,754,092	4,344,502	5,283,036
Total Planned Capital Expense - Stormwater	1,844,400	3,122,097	967,065	1,896,116	3,228,160	1,057,501	3,209,474	2,244,921	4,259,587	4,411,468	5,319,653

4.2 Operations and Maintenance Expenditure Forecast

The 2022 Operating Budget was provided by City of St. Thomas. The budget identifies the operation and maintenance costs of the city's stormwater and sanitary sewer infrastructure. Future cost estimates were developed based on current operating and maintenance costs and the potential impact of future capital needs. It was determined that there would not be significant changes to operating or maintenance costs as a result of the implementation of the 2022-2032 Capital Plan. The costs for each component of the operating budget have been reviewed with City staff to establish inflationary adjustments for use in forecasting. Table 4-3 on the following page summarizes these assumptions.

St. Thomas Sanitary Sewer and Stormwater Systems
2023 – 2032 Sewer Rate Study

Table 4-3: Inflation Assumptions

SEWER OPERATIONS			POLLUTION CONTROL PLANT OPERATIONS		
Description	Rate of Inflation (%)	Notes	Description	Rate of Inflation (%)	Notes
Reg Full-time Salaries & Wages	2.00%	Based on current Collective Agreement	Reg Full-time Wages	2.00%	Based on current Collective Agreement
Reg Part-time Salaries & Wages	2.00%	Based on current Collective Agreement	Reg Part-time Wages	2.00%	Based on current Collective Agreement
Supervisor Labour Distribution	2.00%	Based on current Collective Agreement	Standby	2.00%	Based on current Collective Agreement
All Overtime	2.00%	Based on current Collective Agreement	All Overtime	2.00%	Based on current Collective Agreement
All Statutory Benefits	2.00%	Based on current Collective Agreement	Distributed Benefits	2.00%	Based on current Collective Agreement
All Employer Benefits	2.00%	Based on current Collective Agreement	All Statutory Benefits	2.00%	Based on current Collective Agreement
Annual Erosion Control - Storm Structure Repair	3.89%	Based on 10-year average CPI	All Employer Benefits	2.00%	Based on current Collective Agreement
Job Costing Labour	2.00%	Based on current Collective Agreement	OMERS	2.00%	Based on current Collective Agreement
Job Costing Materials	3.89%	Based on 10-year average CPI	Admin. Labour Allocation	2.00%	Based on current Collective Agreement
Job Costing Equipment	3.89%	Based on 10-year average CPI	City Own Property Taxes	3.89%	Based on 10-year average CPI
Job Costing Subcontractors	3.89%	Based on 10-year average CPI	Course/Exam Fees	3.89%	Based on 10-year average CPI
Benefits Clearing	2.00%	Based on current Collective Agreement	Association Membership Fees	3.89%	Based on 10-year average CPI
Standby	2.00%	Based on current Collective Agreement	Contracted Services	3.89%	Based on 10-year average CPI
Annual Sewer Video Inspection	3.89%	Based on 10-year average CPI	Sludge Hauling	3.89%	Based on 10-year average CPI
Payroll Clearing	2.00%	Based on current Collective Agreement	Sludge Disposal Expense	3.89%	Based on 10-year average CPI
OMERS	2.00%	Based on current Collective Agreement	Contracted Building Maintenance	3.89%	Based on 10-year average CPI
Office Supplies	3.89%	Based on 10-year average CPI	Telephone Services	3.89%	Based on 10-year average CPI
Uniforms/Supply	3.89%	Based on 10-year average CPI	Courier	3.89%	Based on 10-year average CPI
Basement Flooding Grant Prog.	0.00%	Based on program constraints	Photocopying	3.89%	Based on 10-year average CPI
POLLUTION CONTROL PLANT ADMINISTRATION			Staff Mileage	3.89%	Based on 10-year average CPI
Association Membership Fees	3.89%	Based on 10-year average CPI	Office Supplies	3.89%	Based on 10-year average CPI
Contract Services	3.89%	Based on 10-year average CPI	Uniforms/Supply	3.89%	Based on 10-year average CPI
Insurance Premiums	3.89%	Based on 10-year average CPI	Chemicals	3.89%	Based on 10-year average CPI
Photocopying	3.89%	Based on 10-year average CPI	Equipment Purchases	3.89%	Based on 10-year average CPI
Office Supplies	3.89%	Based on 10-year average CPI	Sewage Treatment Plant City Vehicles	3.89%	Based on 10-year average CPI
Legal Fees	3.89%	Based on 10-year average CPI	Annual Minor Replacements	3.89%	Based on 10-year average CPI
Consulting Services (Eng & Fin)	3.89%	Based on 10-year average CPI	Building Maint/Repair Supply	3.89%	Based on 10-year average CPI
CMMS Support Fee	3.89%	Based on 10-year average CPI	Janitorial Supplies	3.89%	Based on 10-year average CPI
Billing Services	3.89%	Based on 10-year average CPI	Health & Safety Supplies	3.89%	Based on 10-year average CPI
Communications SCADA	3.89%	Based on 10-year average CPI	Electricity (Hydro)	5.00%	Based on historical performance
SCADA Maintenance	3.89%	Based on 10-year average CPI	Water	3.00%	Based on existing rate studies
Electricity (Hydro)	5.00%	Based on historical performance	Natural gas - heating	5.00%	Based on historical performance
Natural gas - heating	5.00%	Based on historical performance	PUMPING STATION OPERATIONS		
PW Building Overhead	3.89%	Based on 10-year average CPI	SCADA Expense	3.89%	Based on 10-year average CPI
Corporate Support Services	3.89%	Based on 10-year average CPI	SCADA Maintenance	3.89%	Based on 10-year average CPI
PUMPING STATION OPERATIONS			Build Maint/Repair - St T PSs	3.89%	Based on 10-year average CPI
Water	3.00%	Based on existing rate studies	Pumping Station Upgrades	3.89%	Based on 10-year average CPI
Natural gas - heating	5.00%	Based on historical performance	Electricity - St T PS's	5.00%	Based on historical performance
			Electricity - MCE PS's	5.00%	Based on historical performance

4.2.1 Sanitary Sewer System O&M Expenditure Forecast

Incorporating the inflation assumptions from section 4.2 to the 2022 sanitary sewer operating budget, annual expenditures are anticipated to increase from \$4.8 million in 2022 to approximately \$7.6 million in 2032. A detailed operating budget forecast, based on these assumptions is provided in Appendix B.

4.2.2 Stormwater System O&M Expenditure Forecast

Incorporating the inflation assumptions from section 4.2 to the stormwater sewer operating budget, annual expenditures are anticipated to increase from \$0.7 million in 2022 to approximately \$0.9 million in 2032. A detailed operating budget forecast, based on these assumptions is provided in Appendix B.

4.3 Lifecycle Analysis

In addition to the capital plan summarized in Section 4.1, an Asset Lifecycle Analysis, based on asset information contained in the City of St. Thomas' Asset Management Plan, was completed to evaluate the future asset replacement needs. This involved consideration of the following information for the respective assets:

- Pipe size, length and location,
- In- service or year of installation,
- Useful life expectancy and anticipated year of replacement,
- Replacement costs in 2022 dollars, and
- Replacement costs in the future year of replacement (estimated by adjusting 2022 replacement costs by assumed inflation rates).

The analysis separated existing assets into Stormwater or Sanitary Sewer asset categories and summarized the lifecycle capital needs for each systems infrastructure by type, size and location. Based on that analysis, lifecycle “sinking fund” contributions for each piece of infrastructure were identified. These calculations determine the level of investment the City should target annually for sustainable levels of long-term capital funding within rates.

4.3.1 Sanitary Sewer System – Lifecycle Analysis

A summary of the Sanitary Sewer Lifecycle Assessment is provided in Table 4-4, to the right. Detailed Lifecycle Assessment Tables are provided in Appendix C.

In total, the analysis identifies future capital funding of \$286.5 million for the period 2032-2132. Moreover, the

Table 4-4: Summary of Sanitary Sewer Infrastructure Lifecycle Analysis			
Asset Class	Total Length (km) / Number	Replacement Cost Estimate (2022 \$)	Annual Lifecycle Contribution
Sanitary Sewer Main	206.7	191,448,826	2,552,651
Combined Sewer Main	4.2	3,899,384	51,992
Pump Stations	11	18,777,200	288,880
WPCP	1	113,023,460	1,589,861
Fleet	18	2,960,000	109,773
TOTAL		\$330,108,870	\$4,593,157

annual funding commitment in 2022 \$'s is approximately \$4.6 million annually. The capital funding plan for the sanitary sewer infrastructure and corresponding rate forecasts have been developed relative to these long-term lifecycle funding levels.

4.3.2 Stormwater System – Lifecycle Analysis

A summary of the Stormwater Lifecycle Assessment is provided in Table 4-5, to the right. Detailed Lifecycle Assessment Tables are provided in Appendix C.

In total, the analysis identifies future capital funding of \$176.5 million for the period 2032-2132. Moreover, the annual funding commitment in 2022 \$'s

is approximately \$2.72 million annually. The capital funding plan for the stormwater infrastructure and corresponding rate forecasts have been developed relative to these long-term lifecycle funding levels.

Table 4-5: Summary of Stormwater Infrastructure Lifecycle Analysis			
Asset Class	Total Length (km) / Number	Replacement Cost Estimate (2022 \$)	Annual Lifecycle Contribution
Storm Sewer Main	168	184,657,609	2,462,101
Combined Sewer Main	4.2	2,786,338	37,151
Ponds	22	9,807,200	98,072
Interceptors	28	1,441,180	20,810
Fleet	18	2,960,000	109,773
TOTAL		\$201,652,327	\$2,727,908

5 FULL COST RECOVERY PLAN

The following outlines the City of St. Thomas' Cost Recovery Plan for their sanitary sewer and stormwater systems to address the on-going operations and maintenance costs, capital needs forecast as well as the systems overall lifecycle needs, as identified in the previous section. This section of the report reviews the eligible capital funding sources then proceeds to present the cost recovery plan for each of the stormwater and sanitary sewer systems, consistent with the service agreements in place with the Twp of Southwold and Municipality of Central Elgin.

The City has the following funding sources available to them and their use is discussed further in the sections below:

- Development Charges
- Grant Funding
- Debt Financing
- Reserves / Reserve Funds
- Operating Revenues

5.1 Development Charges

Development Charges have not been considered within the scope of this study. It has been assumed, for the purposes of this rate study, that future development will fund any necessary system upsizing or extension of the water system through development charges. Any identified development projects within the capital plan discussed in section 3, reflects only the non-DC recoverable portion of the expense of any reconstruction/upsizing projects.

5.2 Grant Funding

Historically, federal/provincial level funding helped with major municipal infrastructure projects. In recent years, funding from these levels of government have been reduced, are typically allocated on a case-by-case basis and are assigned to “shovel-ready” projects. In developing the cost recovery plan, grant funding in the amount of \$2,040,077 has been identified in 2023 within the sanitary sewer Capital Financing Plan as shown in section 5.4.2 below. These grant funds have been provided through the Government of Canada’s Investing in Canada Infrastructure Program – Green Infrastructure Stream and have been allocated specifically to the Removal of Water Pollution Control Plant (WPCP) Bottlenecks project for which they were provided. At the time of publication, no grant funding has been secured nor is any anticipated for use in the stormwater capital financing plan (Section 5.4.3 below).

5.3 Debt Financing

Issuance of debt allows for financing to be available in the year the project is required, and repayment occurs over the future years. Financing from the Reserve Fund requires that enough funds be available in the reserve in the year in which the project is undertaken, through annual contributions to the reserve in prior years. Without debt or reserve financing, major rate increases or “spikes” could be required in the project year to raise sufficient funds to cover the project expenditures. Within the Sanitary Sewer Capital Financing Plan, three different injections of debt financing will be required to execute the capital plan. It will be necessary for the City to incur a total debt of \$15,275,000 over the planning period. Total principle debt at the end of the planning period will be \$12,282,677. At a repayment schedule of 25 years, the total financial costs of borrowing will be approximately \$8.3 million and payments for debt incurred over this forecast period will be finalized at 2051 year-end.

5.4 Reserve Financing

Municipalities in Ontario use fund accounting as the basis for budgeting and recording their financial matters. There are two funds, those being the operating fund (to address day-to-day expenditures) and Reserve/Reserve Funds (accumulation of funds set aside for specific purposes).

In its simplest form, a reserve represents monies which are set aside for future known expenditures or for contingent purposes. The establishment of a reserve is at the discretion of Council and represents a financial management tool for smoothing out fluctuations in rates over a period of time.

The city has two dedicated sewer reserve funds, the Sewer Reserve Fund, and the Central Elgin Connection Charge Fund. The Sewer Reserve Fund is funded from the sanitary sewer and stormwater sewer rates and may be used to fund any works required on the St. Thomas sanitary sewer collection system network and treatment systems, stormwater sewer network or other stormwater infrastructure. As per the provisions of the service agreement in place with Central Elgin, the Connection Charge Fund is funded from connection charges imposed on new connections within the Municipality of Central Elgin and may be used to fund any works required on the St. Thomas sanitary sewer collection system network and treatment systems.

5.4.1 Capital Funding

Direct capital recoveries through the sewer rates and indirectly through reserves, grants, connection charge reserve and debentures will all be utilized as funding sources for the St. Thomas Sanitary Sewer and Stormwater Systems' Capital Needs and Lifecycle Analysis forecast. Appendix F summarizes the capital funding plan for Sanitary and Stormwater Systems, with approximately \$ 2,040,077 in grant funding, \$15,275,000 in debentures, \$500,000 from the connection charge reserve being identified, with the remaining \$91,677,177 in contributions required from the reserve funds over the planning period.

5.4.2 Sewer Reserve Fund Continuity Forecast

The City has established a sewer reserve fund for the St. Thomas Sanitary Sewer and Stormwater Systems which are used in supporting existing rate stabilization, as well as funding sanitary and stormwater system capital needs. At 2021 year-end the City had one reserve with a balance of \$1,249,673 and the projected 2022 year-end balance is estimated to be \$107,587.

Consistent with the principles of full cost pricing, the rate analysis assumes the that the City will make these discretionary reserves obligatory reserve funds, so that the fund will be utilized exclusively for this purpose and that the interest will be accumulated on reserve fund balances. As such, the rate analysis assumes an annual interest rate for reserve fund balances of 2%, a modest reduction of past investment performance of 2.1% over the last 5 years.

In total, the 2023-2032 capital needs for the Sanitary Sewer infrastructure total approximately \$77.9 million. In the recommended funding plan, \$60.1 million of the total capital needs would be funded through the reserve fund. Additionally, the capital needs for the Stormwater system infrastructure total approximately \$31.5 million, of which, 100% of the total capital needs would be funded by reserve funds.

Table 5-1 on the following page provides the forecast reserve fund continuity statement for the planning period. The reserve fund balance is projected to increase over the period from approximately \$1.2 million in 2021 to \$3.1 million in 2032. It should be noted that, based on the Lifecycle assessment, following the execution of the 2022-2032 capital plan, a capital needs backlog of works totalling approximately \$7.0 million will exist on the stormwater system and approximately \$12.8 million backlog will exist for the sanitary sewer system. These backlogs represent aged infrastructure which, although they have not been assessed as needing immediate replacement, present a higher risk of failure and possible emergency repairs. In a period of lower replacement/reconstruction needs, reserve needs to be sustained and built to cover the expense of rehabilitation and replacement needs in the future when annual capital needs exceed the annualized \$7.3 million.

St. Thomas Sanitary Sewer and Stormwater Systems
2023 – 2032 Sewer Rate Study

Table 5-1: RESERVE FUND FORECAST (2023 - 2032)											
	2022 BUDGET	2023 FORECAST	2024 FORECAST	2025 FORECAST	2026 FORECAST	2027 FORECAST	2028 FORECAST	2029 FORECAST	2030 FORECAST	2031 FORECAST	2032 FORECAST
Reserve Balance (Beg. Of Year)	1,249,673	107,587	181,949	2,255	296,269	1,325,665	851,072	391,753	2,183,776	2,735,929	3,536,255
Less: Planned Capital Expenditures	6,280,477	5,894,760	7,194,838	7,304,998	7,406,892	8,887,422	9,479,586	7,793,873	9,626,511	9,973,350	11,834,470
Add: Reserve Contribution	5,113,397	5,966,971	7,011,505	7,598,967	8,430,362	8,386,316	9,003,245	9,578,062	10,134,988	10,718,957	11,331,239
Add: Interest on Reserve	24,993	2,152	3,639	45	5,925	26,513	17,021	7,835	43,676	54,719	70,725
Reserve Balance (End Of Year)	\$107,587	\$181,949	\$2,255	\$296,269	\$1,325,665	\$851,072	\$391,753	\$2,183,776	\$2,735,929	\$3,536,255	\$3,103,749

5.4.3 Connection Charge Reserve Fund Continuity Forecast

The City has established a connection charge reserve fund for the St. Thomas Sanitary Sewer System which is used in funding sanitary system capital needs. At 2021 year-end the city had one reserve with a balance of \$400,248 and the projected 2022 year-end balance is estimated to be \$420,479.

The connection charge fund is an obligatory reserve fund, meaning that the fund will be utilized exclusively for the purpose of rehabilitation or renewal initiatives within the sanitary sewer system. As such, the rate analysis assumes an annual interest rate for reserve fund balances of 2%, a modest reduction of past investment performance of 2.1% over the last 5 years.

Table 5-2 below provides the forecast connection charge reserve fund continuity statement for the planning period. The reserve fund balance is projected to increase over the period from approximately \$420,479 to \$511,984 by 2027. In the recommended funding plan, \$500,000 from this fund will be used in 2027 to help fund the WPCP renewal and expansion project.

Table 5-2: CONNECTION CHARGE RESERVE FUND FORECAST (2022 - 2032)											
	2022 BUDGET	2023 FORECAST	2024 FORECAST	2025 FORECAST	2026 FORECAST	2027 FORECAST	2028 FORECAST	2029 FORECAST	2030 FORECAST	2031 FORECAST	2032 FORECAST
CC Reserve Balance (Beg. Of Year)	400,248	420,479	441,717	464,012	487,416	511,984	37,775	54,848	73,066	92,493	113,193
Less: Planned Capital Expenditures	-	-	-	-	-	500,000	-	-	-	-	-
Add: CC Reserve Contribution	12,226	12,828	13,461	14,124	14,820	15,551	16,317	17,121	17,965	18,851	19,780
Add: Interest on CC Reserve	8,005	8,410	8,834	9,280	9,748	10,240	755	1,097	1,461	1,850	2,264
CC Reserve Balance (End Of Year)	\$420,479	\$441,717	\$464,012	\$487,416	\$511,984	\$37,775	\$54,848	\$73,066	\$92,493	\$113,193	\$135,237

5.5 Operating Revenues – Sanitary Sewer

As discussed in section 1, users of the St. Thomas Sanitary Sewer System are charged a volumetric rate for sanitary sewer services, which is charged as \$/cubic metre (m³) of water consumption. The rate structure currently employed by the city classifies users into the 3 customer classes, Residential, Commercial/Institutional or Industrial, based on the properties zoning designation and charges a different rate to each customer class, as discussed further in the sections to follow.

5.5.1 Residential

The residential customer class is currently charged the highest rate (\$2.41/m³ – 2022) of the 3 customer classes within the city of St. Thomas sanitary sewer rate scheme. It is recommended that the rates for the residential customer class be increased from \$2.41 /m³ in 2022 to \$3.5648 /m³ in 2032. A comparison between the average residential user's annual bill in St. Thomas to various other Ontario municipalities was undertaken. The results are shown in Graph 5-1 to the right and demonstrate that the City of St. Thomas sewer rates are highly competitive with their municipal counterparts. While it is unknown what future rate adjustments other municipalities may implement in the future, the recommended rate increase over the forecast period will maintain St. Thomas's competitiveness in this customer class. As a result of the recommended rate adjustments and anticipated growth, annual revenue from this customer class is forecast to increase from \$6.6 million in 2022 to \$12.2 million in 2032. The recommended sanitary sewer rate – residential class increases for the period 2023 – 2032 are provided in the Table 5-3 below.

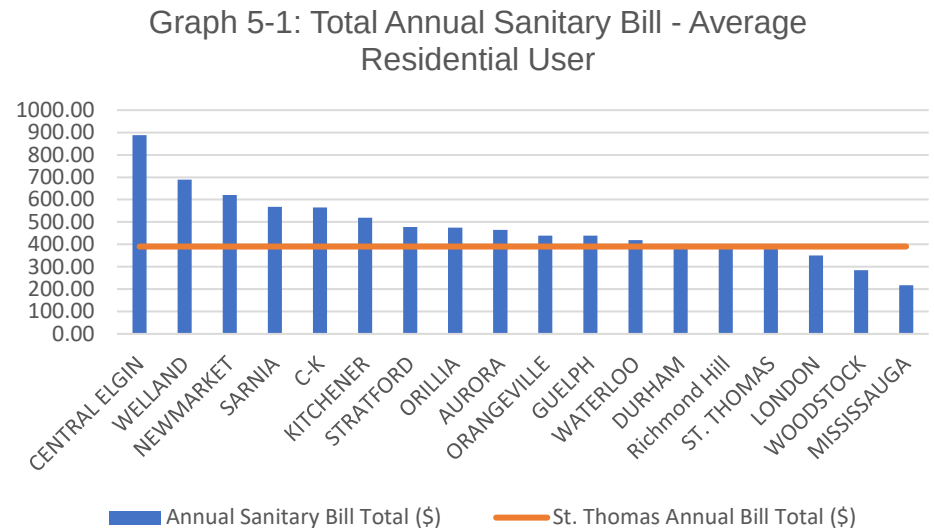


Table 5-3: Sanitary Sewer Rate Forecast - Residential

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Sanitary Sewer Rate (\$/m ³)	2.41	2.5546	2.7079	2.8433	2.9854	3.0750	3.1672	3.2623	3.3601	3.4609	3.5648
Proposed Annual Increase (%)	-	6.0%	6.0%	5.0%	5.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%

5.5.2 Commercial / Institutional

The Commercial/Institutional customer class is currently charged the lowest volumetric rate (\$0.79/m³ – 2022) of the 3 customer classes within the city of St. Thomas sanitary sewer rate scheme. A comparison between the average Commercial/Institutional user's annual bill in St. Thomas to various other Ontario municipalities was undertaken. The results are shown in Graph 5-2 to the right and demonstrate that the City of St. Thomas Commercial/Institutional class are markedly undercharged, when compared to their counterparts in other municipalities. The Commercial/Institutional sewer rate is currently set at 33% of the Residential rate and is recommended to be adjusted to 60% of the Residential rate over the course of the forecast period. As such the rates are recommended to increase from \$0.79/m³ in 2022 to \$2.1365/m³. As a result of the recommended rate increase and anticipated growth, annual revenue from this customer class is forecast to increase from \$409,370 million in 2022 to \$1,395,696 in 2032

While it is unknown what future rate adjustments other municipalities may implement in the future, the recommended rate increase over the forecast period will maintain St. Thomas's competitiveness in this customer class. The recommended sanitary sewer rate – commercial/institutional class increases for the period 2023 – 2032 are provided in Table 5-4 below.

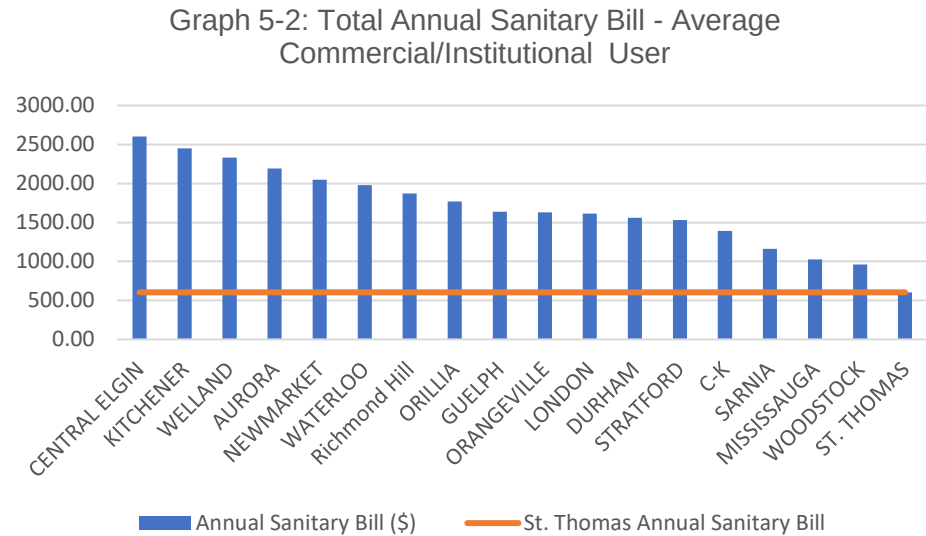


Table 5-4: Sanitary Sewer Rate Forecast - Commercial / Institutional

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Sanitary Sewer Rate (\$/m ³)	0.79	0.9085	1.0448	1.2015	1.3817	1.5890	1.8273	1.9552	2.0139	2.0743	2.1365
Proposed Annual Increase (%)	-	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	7.0%	3.0%	3.0%	3.0%

5.5.3 Industrial

The Industrial customer class is currently charged a volumetric rate of \$1.98/m³ – 2022 and is the middle rate charged to the 3 customer classes within the city of St. Thomas sanitary sewer rate scheme. A comparison of the average user's annual bill in St. Thomas to various other Ontario municipalities was undertaken. The results are shown in Graph 5-3 to the right and demonstrate that the City of St. Thomas Industrial class are competitive with their counterparts in other municipalities. The Industrial sewer rate is currently set at 82% of the Residential rate and is recommended to be adjusted to 80% of the Residential rate over the course of the forecast period. As such the rates are recommended to increase from \$1.98/m³ in 2022 to \$2.8458/m³ in 2032. As a result of the recommended rate increase and anticipated growth, annual revenue from this customer class is forecast to increase from \$497,587 in 2022 to \$905,810 in 2032.

While it is unknown what future rate adjustments other municipalities may implement in the future, the recommended rate increase over the forecast period will maintain St. Thomas's competitiveness in this customer class. The recommended sanitary sewer rate – Industrial class increases for the period 2023 – 2032 are provided in Table 5-5 below.

Graph 5-3: Total Annual Sanitary Bill - Average Industrial User

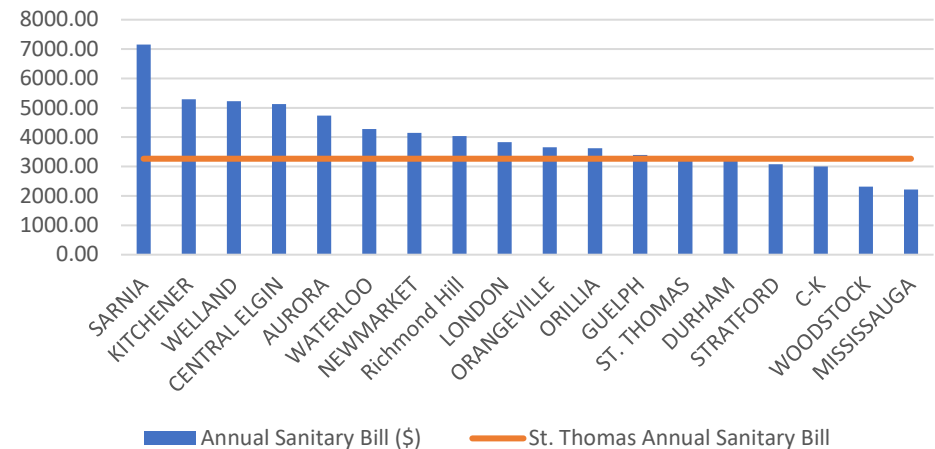


Table 5-5: Sanitary Sewer Rate Forecast - Industrial

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Sanitary Sewer Rate (\$/m ³)	1.98	2.0988	2.2037	2.3139	2.3833	2.4548	2.5285	2.6043	2.6825	2.7629	2.8458
Proposed Annual Increase (%)	-	6.0%	5.0%	5.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%

5.6 Operating Revenues – Stormwater

As discussed in section 1, users of the St. Thomas Stormwater System are charged a monthly fixed rate for stormwater services, which is charged as flat rate for residential and commercial/institutional properties less than 1800 m² in size and a per hectare flat rate for industrial and commercial/institutional properties greater than or equal to 1800 m². The rate structure currently employed by the city classifies users into 4 customer classes, Residential, Small Commercial/Institutional, Large Commercial/Institutional or Industrial, based on the properties zoning designation and property size.

5.6.1 Residential and Small Property Commercial (<1800 m²)

The residential and small property commercial (<1800 m²) customer class is currently charged a monthly flat rate of \$11.70 (2022). It is recommended that this rate increase from \$11.70/ month in 2022 to \$16.03/month in 2032. As a result, annual revenue from this customer class is anticipated to increase from approximately \$2.25 million in 2022 to \$3.91 million in 2032. Detailed calculation Tables underlying the rate forecast is provided in Appendix G. The recommended stormwater rate – residential and small commercial/institutional class increases for the period 2023 – 2032 are provided in Table 5-6 below.

Table 5-6: Stormwater Rate Forecast – Residential and Small Property (< 1800 m ²) Commercial											
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Storm Sewer (\$/mth)	11.70	12.29	12.65	13.03	13.42	13.83	14.24	14.67	15.11	15.56	16.03
Proposed Annual Increase (%)	-	5.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%

5.6.2 Industrial and Large Property Commercial (>1800 m²)

The industrial and large property commercial (>=1800 m²) customer class is currently charged a monthly flat rate of \$161.14/ha/month (2022). It is recommended that this rate increase from \$161.14/ha/month in 2022 to \$220.76/ha/month in 2032. As a result, annual revenue from this customer class is anticipated to increase from approximately \$874,326 in 2022 to \$1.39 million in 2032. Detailed calculation Tables underlying the rate forecast is provided in Appendix G. The recommended stormwater rate – industrial and large property commercial (>=1800 m²) customer class increases for the period 2023 – 2032 are provided in Table 5-7 below.

Table 5-7: Stormwater Rate Forecast – Industrial and Large Property (> 1800 m ²) Commercial											
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Storm Sewer Charge (\$/mth)	161.14	169.20	174.27	179.50	184.89	190.43	196.15	202.03	208.09	214.33	220.76
Proposed Annual Increase (%)	-	5.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%

5.6.3 Impact on Average Residential Users Annual Bill

Table 5-8 below summarizes the impact the forecast rates will have on the annual bill for an average user in each customer class within the City of St. Thomas. It is assumed that the average residential customer consumes 162 m³ annually, the average commercial customer consumes 764 m³ annually, and the average industrial customer consumes 1650 m³ annually. It has also been assumed that the average large commercial property is 1.14 ha in size and the average industrial property is 1.87 ha in size.

The average City of St. Thomas residential user's annual sewer bill (inclusive of sanitary and stormwater charges) is forecast to increase from \$530.82 in 2022 to \$769.84 in 2032, with an average annual increase of \$23.90 (3.79%) over the period of 2023 – 2032.

The average City of St. Thomas small property commercial/institutional user's annual sewer bill (inclusive of sanitary and stormwater charges) is forecast to increase from \$743.96 in 2022 to \$1824.66 in 2032, with an average annual increase of \$108.07 (9.49%) over the period of 2023 – 2032.

The average City of St. Thomas large property commercial/institutional user's annual sewer bill (inclusive of sanitary and stormwater charges) is forecast to increase from \$2807.96 in 2022 to \$4652.36 in 2032, with an average annual increase of \$184.44 (5.19%) over the period of 2023 – 2032.

The average City of St. Thomas industrial user's annual sewer bill (inclusive of sanitary and stormwater charges) is forecast to increase from \$6882.98 in 2022 to \$9649.57 in 2032, with an average annual increase of \$276.66 (3.44%) over the period of 2023 – 2032.

Table 5-8: Impact on Average User's Annual Bill per Customer Class													
	Annual Sewer Usage (m ³)	Property Size (ha)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Residential User Annual Bill (\$)	162	N/A	530.82	561.27	590.52	617.01	644.73	664.07	683.99	704.51	725.65	747.42	769.84
Annual Bill Increase (\$)			15.42	30.45	29.25	26.49	27.72	19.34	19.92	20.52	21.14	21.77	22.42
% Increase				5.74%	5.21%	4.49%	4.49%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Sm. Commercial User Annual Bill (\$)	764	N/A	743.96	841.51	950.05	1074.34	1216.72	1379.90	1566.97	1669.82	1719.92	1771.52	1824.66
Annual Bill Increase (\$)			19.36	97.55	108.54	124.29	142.38	163.18	187.07	102.85	50.09	51.60	53.15
% Increase				13.11%	12.90%	13.08%	13.25%	13.41%	13.56%	6.56%	3.00%	3.00%	3.00%
Lg. Commercial User Annual Bill (\$)	764	1.14	2807.96	3008.71	3182.26	3373.51	3584.87	3819.09	4079.34	4257.57	4385.29	4516.85	4652.36
Annual Bill Increase (\$)			79.58	200.75	173.55	191.25	211.36	234.22	260.25	178.22	127.73	131.56	135.51
% Increase				7.15%	5.77%	6.01%	6.27%	6.53%	6.81%	4.37%	3.00%	3.00%	3.00%
Industrial User Annual Bill (\$)	1650	1.87	6882.98	7259.80	7546.86	7845.98	8081.36	8323.80	8573.52	8830.72	9095.65	9368.52	9649.57
Annual Bill Increase (\$)			204.47	376.82	287.05	299.13	235.38	242.44	249.71	257.21	264.92	272.87	281.06
% Increase				5.47%	3.95%	3.96%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%

6 RECOMMENDATIONS

As presented within this report, capital and operating expenditures have been identified and forecasted over the 2023-2032 period for sanitary sewer and stormwater services. In addition, a long-term lifecycle assessment for each service area has been completed.

Based upon the foregoing, the following recommendations are put forth for Council's consideration:

1. That Council consider the Capital Plan for sanitary and stormwater systems as provided in section 4 under the "Full Cost of Services" Section and the associated Capital Financing Plan as set out in section 5 under the "Full Cost Recovery Plan" Section.
2. That Council approve the adoption of lifecycle costs for the replacement of sanitary sewer and stormwater infrastructure consistent with the Lifecycle Assessment in Appendices C, D and E.
3. That Council provides for the recovery of all sanitary and stormwater sewer costs through full cost recovery rates.
4. That Council consider and adopt effective in 2023 the recommended sanitary and stormwater sewer rates provided in Sections 5.5 and 5.6 to fund sanitary sewer and stormwater sewer operating, maintenance and capital works from all users of the sanitary and stormwater systems.

Appendix A: 2022-2032 Capital Plans

SANITARY - PPCP Initiatives Capital Plan (Inflated \$)															
Project Name	Year of Construction	Cost Estimate (2022 \$)	Cost Estimate (Inflated \$)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
Collection System Upgrades															
Sunset SPS Improvements to coordinate with PPCP	2022	25,000	25,000	25,000	-	-	-	-	-	-	-	-	-	-	25,000
Additional cost to reroute the new Sunset SPS forcemain to the CSO	2022	120,000	120,000	120,000	-	-	-	-	-	-	-	-	-	-	120,000
Woodworth Ave SPS Upgrades	2024	3,000,000	3,237,940	-	-	3,237,940	-	-	-	-	-	-	-	-	3,237,940
Woodworth Ave SPS Collection System	2025	4,426,675	4,963,624	-	-	-	4,963,624	-	-	-	-	-	-	-	4,963,624
Burwell Rd SPS Upgrades	2028	2,400,000	3,017,545	-	-	-	-	-	-	3,017,545	-	-	-	-	3,017,545
Burwell Rd SPS Downstream Collection System	2029	1,725,000	2,253,229	-	-	-	-	-	-	-	2,253,229	-	-	-	2,253,229
Annual Sewer Lining (500 m/year)	Annual	715,000	N/A		742,814	771,709	801,728	832,916	865,316	898,977	933,947	970,278	1,008,021	1,047,233	8,872,939
CSO Operation Optimization															
Improvements to CSO Tank Operations	2023	100,000	103,890	-	103,890	-	-	-	-	-	-	-	-	-	103,890
Removal of Capacity Constraints at the WPCP															
Remove WPCP Bottlenecks	2023	3,000,000	3,116,700	-	3,116,700	-	-	-	-	-	-	-	-	-	3,116,700
Long-Term I&I Mitigation Measures															
Permanent Rain Gauge Installation	2022	19,000	19,000	19,000	-	-	-	-	-	-	-	-	-	-	19,000
Annual Camerawork	Annual	50,000	N/A	50,000	51,945	53,966	56,065	58,246	60,512	62,866	65,311	67,852	70,491	73,233	670,485
Flow Monitor Installation, Maintenance, Removal	Annual	35,200	N/A	35,200	36,569	37,992	39,470	41,005	42,600	44,257	45,979	47,768	49,626	51,556	472,022
Building on the Current Hydraulic Model	Annual	15,800	N/A	15,800	16,415	17,053	17,717	18,406	19,122	19,866	20,638	21,441	22,275	23,142	211,873
Subtotal PPCP Initiatives				\$265,000	\$4,068,332	\$4,118,659	\$5,878,604	\$950,572	\$987,550	\$4,043,510	\$3,319,104	\$1,107,338	\$1,150,413	\$1,195,164	\$27,084,247
SANITARY - Fleet Capital Plan (Inflated \$)															
Project Name	Year of Replacement	Cost Estimate (2022 \$)	Expense Allocation - Sanitary	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
Pickup	N/A	50,000	25%				\$14,016								14,016
Pickup	N/A	50,000	25%		\$12,986									\$18,308	31,295
Pickup	N/A	50,000	25%		\$12,986									\$18,308	31,295
(2022 replacement likely van)	N/A	95,000	50%										\$66,966		66,966
Pickup	N/A	45,000	50%				\$25,229								25,229
Service body with crane	N/A	90,000	25%									\$30,533			30,533
Crew cab with service body	N/A	150,000	50%							\$94,298					94,298
Sewer jet	N/A	700,000	50%									\$474,961			474,961
Compressor	N/A	30,000	25%		\$7,792										7,792
Backhoe	N/A	120,000	25%		\$31,167					\$37,719					68,886
Skid steer	N/A	80,000	50%					\$46,597							46,597
Forklift	N/A	100,000	17%		\$17,298										17,298
Fuel site - dispensers	N/A	50,000	17%							\$10,467					10,467
Subtotal Fleet Replacement				\$0	\$82,229	\$0	\$39,245	\$46,597	\$0	\$142,485	\$0	\$505,494	\$66,966	\$36,617	\$919,633
SANITARY - Rehabilitation and Renewal Initiatives (Inflated \$)															
Project Name	Year of Construction	Cost Estimate (2022 \$)	Cost Estimate (Inflated \$)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
30-Pullen	2022	244,800	244,800	244,800	-	-	-	-	-	-	-	-	-	-	244,800
94-William Street	2022	240,000	240,000	240,000	-	-	-	-	-	-	-	-	-	-	240,000
21002-St. Anne's Place	2022	96,000	96,000	96,000	-	-	-	-	-	-	-	-	-	-	96,000
18018-Forest Ave	2022	921,600	921,600	921,600	-	-	-	-	-	-	-	-	-	-	921,600
21003-St. Anne's Place	2022	192,000	192,000	192,000	-	-	-	-	-	-	-	-	-	-	192,000
SANITARY - Rehabilitation and Renewal Initiatives (Inflated \$)															

St. Thomas Sanitary Sewer and Stormwater Systems
2023 - 2032 Sewer Rate Study

Project Name	Year of Construction	Cost Estimate (2022 \$)	Cost Estimate (Inflated \$)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
21005-Wellington Road Culvert	storm only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
196-Parkside Drive	2023	710,400	738,035	-	738,035	-	-	-	-	-	-	-	-	-	738,035
290-Talbot Streetscape Ph 3	2023	1,401,600	1,456,122	-	1,456,122	-	-	-	-	-	-	-	-	-	1,456,122
18026-Coyne Street	2023	369,600	383,977	-	383,977	-	-	-	-	-	-	-	-	-	383,977
18072-Elmina Street Culvert (C006)	storm only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18074-Pine Valley Drive Culvert (C021)	storm only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18075-Burwell Road Culvert (C022)	storm only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19003-Simcoe Street	2023	345,600	359,044	-	359,044	-	-	-	-	-	-	-	-	-	359,044
60-Elysian & East (Elysian to End)	2024	352,000	379,918	-	-	379,918	-	-	-	-	-	-	-	-	379,918
71-Meehan	2024	208,000	224,497	-	-	224,497	-	-	-	-	-	-	-	-	224,497
84-Smith	2024	96,000	103,614	-	-	103,614	-	-	-	-	-	-	-	-	103,614
18019-Forest Ave	2024	240,000	259,035	-	-	259,035	-	-	-	-	-	-	-	-	259,035
210-Third	2025	374,400	419,814	-	-	-	419,814	-	-	-	-	-	-	-	419,814
61-Erie Street & Fourth (Erie to Forest)	2025	384,000	430,579	-	-	-	430,579	-	-	-	-	-	-	-	430,579
345-Yarmouth Road	2025	398,400	446,725	-	-	-	446,725	-	-	-	-	-	-	-	446,725
18071-Fanshawe SWM Pond	storm only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
380-Meda Street	2025	249,600	279,876	-	-	-	279,876	-	-	-	-	-	-	-	279,876
382-St. Catharine Street	2025	249,600	279,876	-	-	-	279,876	-	-	-	-	-	-	-	279,876
69-John	2026	307,200	357,863	-	-	-	-	357,863	-	-	-	-	-	-	357,863
179-Miller Street	2026	224,000	260,941	-	-	-	-	260,941	-	-	-	-	-	-	260,941
291-Talbot Streetscape Ph 4	2026	145,550	169,554	-	-	-	-	169,554	-	-	-	-	-	-	169,554
21006-Sunset	2026	1,072,000	1,248,791	-	-	-	-	1,248,791	-	-	-	-	-	-	1,248,791
278-Centre Street	2026	582,400	678,448	-	-	-	-	678,448	-	-	-	-	-	-	678,448
70-Kains	2026	400,000	465,967	-	-	-	-	465,967	-	-	-	-	-	-	465,967
67-Hincks Street	2027	192,000	232,365	-	-	-	-	-	232,365	-	-	-	-	-	232,365
204-Mitchell - CS	2027	384,000	464,729	-	-	-	-	-	464,729	-	-	-	-	-	464,729
235-Princess Avenue	2027	172,800	209,128	-	-	-	-	-	209,128	-	-	-	-	-	209,128
197-Pearl - CS	2027	125,000	151,279	-	-	-	-	-	151,279	-	-	-	-	-	151,279
56-Bush Line	2028	400,000	502,924	-	-	-	-	-	-	502,924	-	-	-	-	502,924
344-Mondamin Street	2028	192,000	241,404	-	-	-	-	-	-	241,404	-	-	-	-	241,404
385-1Alma Street	2028	345,600	434,526	-	-	-	-	-	-	434,526	-	-	-	-	434,526
78-Redan	2028	720,000	905,263	-	-	-	-	-	-	905,263	-	-	-	-	905,263
115-Chestnut Street	2029	576,000	752,383	-	-	-	-	-	-	-	752,383	-	-	-	752,383
116-Churchill Crescent	2029	160,000	208,995	-	-	-	-	-	-	-	208,995	-	-	-	208,995
122-Old Talbot Street	2029	672,000	877,780	-	-	-	-	-	-	-	877,780	-	-	-	877,780
292-1Talbot Streetscape Ph 5	2029	145,500	190,055	-	-	-	-	-	-	-	190,055	-	-	-	190,055
18022-Cypress	2029	153,600	200,635	-	-	-	-	-	-	-	200,635	-	-	-	200,635
39-Fifth Ave - CS	2030	152,000	206,269	-	-	-	-	-	-	-	-	206,269	-	-	206,269
96-Arthur Avenue	2030	512,000	694,800	-	-	-	-	-	-	-	-	694,800	-	-	694,800
106-Centre - Pleasant to Stanley & King & Church	2030	752,000	1,020,488	-	-	-	-	-	-	-	-	1,020,488	-	-	1,020,488
364-Curtis Street	2030	128,000	173,700	-	-	-	-	-	-	-	-	173,700	-	-	173,700
381-Hiawatha Street	2030	86,400	117,248	-	-	-	-	-	-	-	-	117,248	-	-	117,248
130-Sinclair	2030	816,000	1,107,338	-	-	-	-	-	-	-	-	1,107,338	-	-	1,107,338
90-Victoria	2030	320,000	434,250	-	-	-	-	-	-	-	-	434,250	-	-	434,250
72-Metcalfe	2031	400,000	563,928	-	-	-	-	-	-	-	-	-	563,928	-	563,928
77-Pleasant & Walnut	2031	915,200	1,290,267	-	-	-	-	-	-	-	-	-	1,290,267	-	1,290,267
20001-Wolfe & Flora	2031	240,000	338,357	-	-	-	-	-	-	-	-	-	338,357	-	338,357
249-Frisch	2031	352,000	496,257	-	-	-	-	-	-	-	-	-	496,257	-	496,257
161-Isabel	2031	432,000	609,042	-	-	-	-	-	-	-	-	-	609,042	-	609,042
18017 Curtis Street	2031	272,000	383,471	-	-	-	-	-	-	-	-	-	383,471	-	383,471

SANITARY - Rehabilitation and Renewal Initiatives (Inflated \$)															
Project Name	Year of Construction	Cost Estimate (2022 \$)	Cost Estimate (Inflated \$)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
18043 Erie St	2031	470,400	663,179	-	-	-	-	-	-	-	-	-	663,179	-	663,179
14-Fairview	2032	166,400	243,720	-	-	-	-	-	-	-	-	-	-	243,720	243,720
45-Scott	2032	128,000	187,477	-	-	-	-	-	-	-	-	-	-	187,477	187,477
79-Regent	2032	224,000	328,084	-	-	-	-	-	-	-	-	-	-	328,084	328,084
120 Margaret	2032	208,000	304,650	-	-	-	-	-	-	-	-	-	-	304,650	304,650
123 Omeeme Street	2032	144,000	210,911	-	-	-	-	-	-	-	-	-	-	210,911	210,911
124-Owaissa	2032	172,800	253,094	-	-	-	-	-	-	-	-	-	-	253,094	253,094
131 St. George	2032	176,000	257,781	-	-	-	-	-	-	-	-	-	-	257,781	257,781
145-Naama	2032	128,000	187,477	-	-	-	-	-	-	-	-	-	-	187,477	187,477
160-Drake	2032	144,000	210,911	-	-	-	-	-	-	-	-	-	-	210,911	210,911
175 -First	2032	90,000	131,820	-	-	-	-	-	-	-	-	-	-	131,820	131,820
207-Eizabeth	2032	144,000	210,911	-	-	-	-	-	-	-	-	-	-	210,911	210,911
243-Alma	2032	192,000	281,215	-	-	-	-	-	-	-	-	-	-	281,215	281,215
248-Elysian/burrows/cora	2032	208,000	304,650	-	-	-	-	-	-	-	-	-	-	304,650	304,650
255 St. Annes	2032	192,000	281,215	-	-	-	-	-	-	-	-	-	-	281,215	281,215
301-Edward	2032	277,000	405,711	-	-	-	-	-	-	-	-	-	-	405,711	405,711
383 Beverley	2032	176,000	257,781	-	-	-	-	-	-	-	-	-	-	257,781	257,781
18001 Elmina	2032	256,000	374,954	-	-	-	-	-	-	-	-	-	-	374,954	374,954
18002 Elmina	2032	144,000	210,911	-	-	-	-	-	-	-	-	-	-	210,911	210,911
18014 St. Annes Place	2032	264,000	386,671	-	-	-	-	-	-	-	-	-	-	386,671	386,671
18015 Mary Street	2032	172,800	253,094	-	-	-	-	-	-	-	-	-	-	253,094	253,094
Subtotal Rehabilitation and Renewal Initiatives				\$1,694,400	\$2,937,178	\$967,065	\$1,856,870	\$3,181,563	\$1,057,501	\$2,084,118	\$2,229,848	\$3,754,092	\$4,344,502	\$5,283,036	\$29,390,173
SANITARY - Development Related Initiatives (non-DC recoverable portion)															
Project Name	Year of Construction	Historical Cost Estimate	Value at Time of Construction	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
Treatment Plant															
WPCP Plant Expansion Design	2025	374,001	452,628	-	-	-	452,628	-	-	-	-	-	-	-	452,628
WPCP Expansion	2027	#####	#####	-	-	-	-	-	#####	-	-	-	-	-	16,284,871
Odour Control Storage and Initiatives (New Aerated Storage Tank)	2022	1,339,752	1,446,012	1,446,012	-	-	-	-	-	-	-	-	-	-	1,446,012
Southblock															
S4- Trunk Sewer from Shaw Valley P.S. to Southdale	2022	24,000	25,904	25,904	-	-	-	-	-	-	-	-	-	-	25,904
Replace 1050mm sewer from MH 00664 to MH 00665 with 1350 mm sewer	2022	66,316	71,576	71,576	-	-	-	-	-	-	-	-	-	-	71,576
Replace 1050mm sewer from MH 00665 to MH 00666 with 1350 mm sewer	2022	38,685	41,753	41,753	-	-	-	-	-	-	-	-	-	-	41,753
Replace 975x675mm sewer with 975mm sewer from MH 008860 to MH 00859	2024	104,051	121,211	-	-	121,211	-	-	-	-	-	-	-	-	121,211
Replace 975x675 sewer with 975mm sewer from MH 00859 to MH 00857	2024	57,949	67,506	-	-	67,506	-	-	-	-	-	-	-	-	67,506
Upgrades to Axford SPS	2025	150,000	181,535	-	-	-	181,535	-	-	-	-	-	-	-	181,535
Dalewood Collection System															
Burwell Forcemain ext and PS upgrade	2024	818,370	953,333	-	-	953,333	-	-	-	-	-	-	-	-	953,333
NW Area 1 Servicing															
Forcemain (section 4)	2022	80,000	86,345	86,345	-	-	-	-	-	-	-	-	-	-	86,345
Upgrade of Sunset SPS	2022	445,926	481,294	481,294	-	-	-	-	-	-	-	-	-	-	481,294

St. Thomas Sanitary Sewer and Stormwater Systems
2023 - 2032 Sewer Rate Study

SANITARY - Development Related Initiatives (non-DC recoverable portion)															
Project Name	Year of Construction	Historical Cost Estimate	Value at Time of Construction	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
Watercourse Crossings (4)	2022	300,000	323,794	323,794	-	-	-	-	-	-	-	-	-	-	323,794
Subtotal Development Initiatives			-	\$2,476,677	\$0	\$1,142,050	\$634,163	\$0	#####	\$0	\$0	\$0	\$0	\$0	\$20,537,761
TOTAL CAPITAL PLAN - SANITARY				\$4,436,077	\$7,087,739	\$6,227,774	\$8,408,882	\$4,178,732	#####	\$6,270,112	\$5,548,952	\$5,366,924	\$5,561,882	\$6,514,817	\$77,931,813

STORMWATER - Fleet Capital Plan (Inflated \$)															
Project Name	Year of Replacement	Cost Estimate (2022 \$)	Expense Allocation - Storm	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
pickup	N/A	\$50,000	25%				14,016								14,016
pickup	N/A	\$50,000	25%		12,986									18,308	31,295
pickup	N/A	\$50,000	25%		25,973									18,308	44,281
(2022 replacement likely van)	N/A	\$95,000	50%										66,966		66,966
pickup	N/A	\$45,000	50%				25,229								25,229
service body with crane	N/A	\$90,000	25%									30,533			30,533
crew cab with service body	N/A	\$150,000	50%							94,298					94,298
sewer jet	N/A	\$700,000	50%									474,961			474,961
compressor	N/A	\$30,000	25%		7,792										7,792
backhoe	N/A	\$120,000	25%		31,167					37,719					68,886
skid steer	N/A	\$80,000	50%					46,597							46,597
forklift	N/A	\$100,000	17%		17,298										17,298
fuel site - dispensers	N/A	\$50,000	17%							10,467					10,467
Subtotal Fleet Replacement				\$0	\$95,215	\$0	\$39,245	\$46,597	\$0	\$142,485	\$0	\$505,494	\$66,966	\$36,617	\$932,619

STORMWATER - Rehabilitation and Renewal Initiatives Capital Plan (Inflated \$)															
Project Name	Year of Construction	Cost Estimate (2022 \$)	Cost Estimate (Inflated \$)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
30-Pullen	2022	244,800	244,800	244,800	-	-	-	-	-	-	-	-	-	-	244,800
94-William Street	2022	240,000	240,000	240,000	-	-	-	-	-	-	-	-	-	-	240,000
21002-St. Anne's Place	2022	96,000	96,000	96,000	-	-	-	-	-	-	-	-	-	-	96,000
18018-Forest Ave	2022	921,600	921,600	921,600	-	-	-	-	-	-	-	-	-	-	921,600
21003-St. Anne's Place	2022	192,000	192,000	192,000	-	-	-	-	-	-	-	-	-	-	192,000
21005-Wellington Road Culvert	2022	150,000	150,000	150,000	-	-	-	-	-	-	-	-	-	-	150,000
196-Parkside Drive	2023	710,400	738,035	-	738,035	-	-	-	-	-	-	-	-	-	738,035
290-Talbot Streetscape Ph 3	2023	1,401,600	1,456,122	-	1,456,122	-	-	-	-	-	-	-	-	-	1,456,122
18026-Coyne Street	2023	369,600	383,977	-	383,977	-	-	-	-	-	-	-	-	-	383,977
18072-Elmina Street Culvert (C006)	2023	30,000	33,639	-	33,639	-	-	-	-	-	-	-	-	-	33,639
18074-Pine Valley Drive Culvert (C021)	2023	15,000	16,819	-	16,819	-	-	-	-	-	-	-	-	-	16,819
18075-Burwell Road Culvert (C022)	2023	35,000	39,245	-	39,245	-	-	-	-	-	-	-	-	-	39,245
19003-Simcoe Street	2023	345,600	359,044	-	359,044	-	-	-	-	-	-	-	-	-	359,044
60-Elysian & East (Elysian to End)	2024	352,000	379,918	-	-	379,918	-	-	-	-	-	-	-	-	379,918
71-Meehan	2024	208,000	224,497	-	-	224,497	-	-	-	-	-	-	-	-	224,497
84-Smith	2024	96,000	103,614	-	-	103,614	-	-	-	-	-	-	-	-	103,614
18019-Forest Ave	2024	240,000	259,035	-	-	259,035	-	-	-	-	-	-	-	-	259,035
210-Third	2025	374,400	419,814	-	-	-	419,814	-	-	-	-	-	-	-	419,814
61-Erie Street & Fourth (Erie to Forest)	2025	384,000	430,579	-	-	-	430,579	-	-	-	-	-	-	-	430,579
345-Yarmouth Road	2025	398,400	446,725	-	-	-	446,725	-	-	-	-	-	-	-	446,725
380-Meda Street	2025	249,600	279,876	-	-	-	279,876	-	-	-	-	-	-	-	279,876
382-St. Catharine Street	2025	249,600	279,876	-	-	-	279,876	-	-	-	-	-	-	-	279,876

St. Thomas Sanitary Sewer and Stormwater Systems
2023 - 2032 Sewer Rate Study

STORMWATER - Rehabilitation and Renewal Initiatives Capital Plan (Inflated \$)															
Project Name	Year of Construction	Cost Estimate (2022 \$)	Cost Estimate (Inflated \$)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
69-John	2026	307,200	357,863	-	-	-	-	357,863	-	-	-	-	-	-	357,863
179-Miller Street	2026	224,000	260,941	-	-	-	-	260,941	-	-	-	-	-	-	260,941
291-Talbot Streetscape Ph 4	2026	145,550	169,554	-	-	-	-	169,554	-	-	-	-	-	-	169,554
21006-Sunset	2026	1,072,000	1,248,791	-	-	-	-	1,248,791	-	-	-	-	-	-	1,248,791
278-Centre Street	2026	582,400	678,448	-	-	-	-	678,448	-	-	-	-	-	-	678,448
70-Kains	2026	400,000	465,967	-	-	-	-	465,967	-	-	-	-	-	-	465,967
67-Hincks Street	2027	192,000	232,365	-	-	-	-	-	232,365	-	-	-	-	-	232,365
204-Mitchell - CS	2027	384,000	464,729	-	-	-	-	-	464,729	-	-	-	-	-	464,729
235-Princess Avenue	2027	172,800	209,128	-	-	-	-	-	209,128	-	-	-	-	-	209,128
197-Pearl - CS	2027	125,000	151,279	-	-	-	-	-	151,279	-	-	-	-	-	151,279
56-Bush Line	2028	400,000	542,813	-	-	-	-	-	-	542,813	-	-	-	-	542,813
18071-Fanshawe SWM Pond	2028	750,000	942,983	-	-	-	-	-	-	942,983	-	-	-	-	942,983
344-Mondamin Street	2028	192,000	241,404	-	-	-	-	-	-	241,404	-	-	-	-	241,404
385-1Alma Street	2028	345,600	434,526	-	-	-	-	-	-	434,526	-	-	-	-	434,526
78-Redan	2028	720,000	905,263	-	-	-	-	-	-	905,263	-	-	-	-	905,263
115-Chestnut Street	2029	576,000	752,383	-	-	-	-	-	-	-	752,383	-	-	-	752,383
116-Churchill Crescent	2029	160,000	208,995	-	-	-	-	-	-	-	208,995	-	-	-	208,995
122-Old Talbot Street	2029	672,000	877,780	-	-	-	-	-	-	-	877,780	-	-	-	877,780
292-1Talbot Streetscape Ph 5	2029	145,500	205,129	-	-	-	-	-	-	-	205,129	-	-	-	205,129
18022-Cypress	2029	153,600	200,635	-	-	-	-	-	-	-	200,635	-	-	-	200,635
39-Fifth Ave - CS	2030	152,000	206,269	-	-	-	-	-	-	-	-	206,269	-	-	206,269
96-Arthur Avenue	2030	512,000	694,800	-	-	-	-	-	-	-	-	694,800	-	-	694,800
106-Centre - Pleasant to Stanley & King & Church	2030	752,000	1,020,488	-	-	-	-	-	-	-	-	1,020,488	-	-	1,020,488
364-Curtis Street	2030	128,000	173,700	-	-	-	-	-	-	-	-	173,700	-	-	173,700
381-Hiawatha Street	2030	86,400	117,248	-	-	-	-	-	-	-	-	117,248	-	-	117,248
130-Sinclair	2030	816,000	1,107,338	-	-	-	-	-	-	-	-	1,107,338	-	-	1,107,338
90-Victoria	2030	320,000	434,250	-	-	-	-	-	-	-	-	434,250	-	-	434,250
72-Metcalf	2031	400,000	563,928	-	-	-	-	-	-	-	-	-	563,928	-	563,928
77-Pleasant & Walnut	2031	915,200	1,290,267	-	-	-	-	-	-	-	-	-	1,290,267	-	1,290,267
20001-Wolfe & Flora	2031	240,000	338,357	-	-	-	-	-	-	-	-	-	338,357	-	338,357
249-Frisch	2031	352,000	496,257	-	-	-	-	-	-	-	-	-	496,257	-	496,257
161-Isabel	2031	432,000	609,042	-	-	-	-	-	-	-	-	-	609,042	-	609,042
18017 Curtis Street	2031	272,000	383,471	-	-	-	-	-	-	-	-	-	383,471	-	383,471
18043 Erie St	2031	470,400	663,179	-	-	-	-	-	-	-	-	-	663,179	-	663,179
14-Fairview	2032	166,400	243,720	-	-	-	-	-	-	-	-	-	-	243,720	243,720
45-Scott	2032	128,000	187,477	-	-	-	-	-	-	-	-	-	-	187,477	187,477
79-Regent	2032	224,000	328,084	-	-	-	-	-	-	-	-	-	-	328,084	328,084
120 Margaret	2032	208,000	304,650	-	-	-	-	-	-	-	-	-	-	304,650	304,650
123 Omeeme Street	2032	144,000	210,911	-	-	-	-	-	-	-	-	-	-	210,911	210,911
124-Owaissa	2032	172,800	253,094	-	-	-	-	-	-	-	-	-	-	253,094	253,094
131 St. George	2032	176,000	257,781	-	-	-	-	-	-	-	-	-	-	257,781	257,781
145-Naama	2032	128,000	187,477	-	-	-	-	-	-	-	-	-	-	187,477	187,477
160-Drake	2032	144,000	210,911	-	-	-	-	-	-	-	-	-	-	210,911	210,911
175 -First	2032	90,000	131,820	-	-	-	-	-	-	-	-	-	-	131,820	131,820
207-Eizabeth	2032	144,000	210,911	-	-	-	-	-	-	-	-	-	-	210,911	210,911
243-Alma	2032	192,000	281,215	-	-	-	-	-	-	-	-	-	-	281,215	281,215
248-Elysian/burrows/cora	2032	208,000	304,650	-	-	-	-	-	-	-	-	-	-	304,650	304,650
255 St. Annes	2032	192,000	281,215	-	-	-	-	-	-	-	-	-	-	281,215	281,215
301-Edward	2032	277,000	405,711	-	-	-	-	-	-	-	-	-	-	405,711	405,711

STORMWATER - Rehabilitation and Renewal Initiatives Capital Plan (Inflated \$)															
Project Name	Year of Construction	Cost Estimate (2022 \$)	Cost Estimate (Inflated \$)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	TOTAL
383 Beverley	2032	176,000	257,781	-	-	-	-	-	-	-	-	-	-	257,781	257,781
18001 Elmina	2032	256,000	374,954	-	-	-	-	-	-	-	-	-	-	374,954	374,954
18002 Elmina	2032	144,000	210,911	-	-	-	-	-	-	-	-	-	-	210,911	210,911
18014 St. Annes Place	2032	264,000	386,671	-	-	-	-	-	-	-	-	-	-	386,671	386,671
18015 Mary Street	2032	172,800	253,094	-	-	-	-	-	-	-	-	-	-	253,094	253,094
Subtotal Rehabilitation and Renewal Initiatives				\$1,844,400	\$3,026,882	\$967,065	\$1,856,870	\$3,181,563	\$1,057,501	\$3,066,989	\$2,244,921	\$3,754,092	\$4,344,502	\$5,283,036	\$30,627,822
TOTAL CAPITAL PLAN - STORMWATER				\$1,844,400	\$3,122,097	\$967,065	\$1,896,116	\$3,228,160	\$1,057,501	\$3,209,474	\$2,244,921	\$4,259,587	\$4,411,468	\$5,319,653	\$31,560,441

Appendix B: Operating Budget Forecasts

SANITARY SEWER AND POLLUTION CONTROL PLANT OPERATIONS & MAINTENANCE EXPENSE FORECAST (2023 - 2032) (INFLATED \$)											
DESCRIPTION	2022 BUDGET	2023 FORECAST	2024 FORECAST	2025 FORECAST	2026 FORECAST	2027 FORECAST	2028 FORECAST	2029 FORECAST	2030 FORECAST	2031 FORECAST	2032 FORECAST
POLLUTION CONTROL ADMINISTRATIVE EXPENSES											
Contract Services	1,500	1,558	1,619	1,682	1,747	1,815	1,886	1,959	2,036	2,115	2,197
Insurance Premiums	211,200	219,416	227,951	236,818	246,030	255,601	265,544	275,874	286,605	297,754	309,337
Photocopying	700	727	756	785	815	847	880	914	950	987	1,025
Legal Fees	500	519	540	561	582	605	629	653	679	705	732
Consulting Services	10,000	10,389	10,793	11,213	11,649	12,102	12,573	13,062	13,570	14,098	14,647
CMMS Support Fee	22,000	22,856	23,745	24,669	25,628	26,625	27,661	28,737	29,855	31,016	32,223
Billing Services	187,000	194,274	201,832	209,683	217,839	226,313	235,117	244,263	253,765	263,636	273,892
Communications SCADA	35,000	36,362	37,776	39,245	40,772	42,358	44,006	45,718	47,496	49,344	51,263
SCADA Maintenance	10,000	10,389	10,793	11,213	11,649	12,102	12,573	13,062	13,570	14,098	14,647
Electricity (Hydro)	10,700	11,235	11,797	12,387	13,006	13,656	14,339	15,056	15,809	16,599	17,429
Natural gas - heating	3,250	3,413	3,583	3,762	3,950	4,148	4,355	4,573	4,802	5,042	5,294
PW Building Overhead	75,000	77,918	80,948	84,097	87,369	90,767	94,298	97,966	101,777	105,737	109,850
Corp.Support Svc. Overhead	155,600	161,653	167,941	174,474	181,261	188,312	195,637	203,248	211,154	219,368	227,901
PC ADMIN EXPENSES	\$722,450	\$750,708	\$780,073	\$810,589	\$842,300	\$875,254	\$909,499	\$945,086	\$982,067	\$1,020,499	\$1,060,436
SANITARY SEWER OPERATIONS EXPENSES											
Reg FT Salaries & Wages	310,565	316,776	323,112	329,574	336,166	342,889	349,747	356,742	363,876	371,154	378,577
Reg PT Salaries & Wages	13,385	13,653	13,926	14,204	14,488	14,778	15,074	15,375	15,683	15,996	16,316
Supervisor Labour Dist.	47,290	48,236	49,201	50,185	51,188	52,212	53,256	54,321	55,408	56,516	57,646
All Overtime	10,000	10,200	10,404	10,612	10,824	11,041	11,262	11,487	11,717	11,951	12,190
All Statutory Benefits	29,965	30,564	31,176	31,799	32,435	33,084	33,745	34,420	35,109	35,811	36,527
All Employer Benefits	43,800	44,676	45,570	46,481	47,411	48,359	49,326	50,312	51,319	52,345	53,392
ESC and Storm Repair	55,000	57,140	59,362	61,671	64,070	66,563	69,152	71,842	74,637	77,540	80,556
Job Costing Labour	225,000	229,500	234,090	238,772	243,547	248,418	253,387	258,454	263,623	268,896	274,274
Job Costing Materials	42,500	44,153	45,871	47,655	49,509	51,435	53,436	55,514	57,674	59,917	62,248
Job Costing Equipment	47,500	49,348	51,267	53,262	55,334	57,486	59,722	62,045	64,459	66,966	69,571
Job Costing Subcontractors	75,000	77,918	80,948	84,097	87,369	90,767	94,298	97,966	101,777	105,737	109,850
Payroll and Benefits Clearing	(292,500)	(298,350)	(304,317)	(310,403)	(316,611)	(322,944)	(329,403)	(335,991)	(342,710)	(349,565)	(356,556)
Standby	6,000	6,120	6,242	6,367	6,495	6,624	6,757	6,892	7,030	7,171	7,314
Sewer Video Inspection	10,000	10,389	10,793	11,213	11,649	12,102	12,573	13,062	13,570	14,098	14,647
OMERS	32,645	33,298	33,964	34,643	35,336	36,043	36,764	37,499	38,249	39,014	39,794
Office Supplies	3,500	3,636	3,778	3,925	4,077	4,236	4,401	4,572	4,750	4,934	5,126
Uniforms/Supply	2,500	2,597	2,698	2,803	2,912	3,026	3,143	3,266	3,393	3,525	3,662
Basement Grant Program	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500
SEWER OPERATIONS EXPENSES	\$694,650	\$712,353	\$730,584	\$749,360	\$768,699	\$788,619	\$809,139	\$830,280	\$852,062	\$874,506	\$897,635
POLLUTION CONTROL PLANT OPERATIONS EXPENSES											
Reg Full-time Wages	692,310	706,156	720,279	734,685	749,379	764,366	779,654	795,247	811,152	827,375	843,922
Reg Part-time Wages	12,730	12,985	13,244	13,509	13,779	14,055	14,336	14,623	14,915	15,214	15,518
Standby	16,400	16,728	17,063	17,404	17,752	18,107	18,469	18,838	19,215	19,600	19,992
All Overtime	44,000	44,880	45,778	46,693	47,627	48,580	49,551	50,542	51,553	52,584	53,636
Distributed Benefits	91,460	93,289	95,155	97,058	98,999	100,979	102,999	105,059	107,160	109,303	111,489
All Statutory Benefits	56,930	58,069	59,230	60,415	61,623	62,855	64,112	65,395	66,703	68,037	69,397
All Employer Benefits	87,510	89,260	91,045	92,866	94,724	96,618	98,550	100,521	102,532	104,583	106,674
OMERS	68,470	69,839	71,236	72,661	74,114	75,596	77,108	78,651	80,224	81,828	83,465

DESCRIPTION	SANITARY SEWER AND POLLUTION CONTROL PLANT OPERATIONS & MAINTENANCE EXPENSE FORECAST (2023 - 2032) (INFLATED \$)										
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	BUDGET	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST
Admin. Labour Allocation	318,290	324,656	331,149	337,772	344,527	351,418	358,446	365,615	372,927	380,386	387,994
City Own Property Taxes	55,580	57,742	59,988	62,322	64,746	67,265	69,881	72,600	75,424	78,358	81,406
Course/Exam Fees	10,000	10,389	10,793	11,213	11,649	12,102	12,573	13,062	13,570	14,098	14,647
Assoc. Membership Fees	1,100	1,143	1,187	1,233	1,281	1,331	1,383	1,437	1,493	1,551	1,611
Contracted Services	135,000	140,252	145,707	151,375	157,264	163,381	169,737	176,340	183,199	190,326	197,729
Sludge Hauling	20,000	20,778	21,586	22,426	23,298	24,205	25,146	26,124	27,141	28,196	29,293
Sludge Disposal Expense	120,000	124,668	129,518	134,556	139,790	145,228	150,877	156,746	162,844	169,178	175,759
Contracted Building Maint.	47,000	48,828	50,728	52,701	54,751	56,881	59,094	61,392	63,780	66,262	68,839
Telephone Services	9,500	9,870	10,253	10,652	11,067	11,497	11,944	12,409	12,892	13,393	13,914
Courier	1,220	1,267	1,317	1,368	1,421	1,476	1,534	1,594	1,656	1,720	1,787
Photocopying	1,120	1,164	1,209	1,256	1,305	1,355	1,408	1,463	1,520	1,579	1,640
Staff Mileage	500	519	540	561	582	605	629	653	679	705	732
Office Supplies	1,000	1,039	1,079	1,121	1,165	1,210	1,257	1,306	1,357	1,410	1,465
Uniforms/Supply	6,000	6,233	6,476	6,728	6,990	7,261	7,544	7,837	8,142	8,459	8,788
Chemicals	430,000	446,727	464,105	482,158	500,914	520,400	540,643	561,674	583,524	606,223	629,805
Equipment Purchases	102,000	105,968	110,090	114,372	118,822	123,444	128,246	133,234	138,417	143,802	149,396
WPCP City Vehicles	29,000	30,128	31,300	32,518	33,783	35,097	36,462	37,880	39,354	40,885	42,475
Annual Minor Replacements	310,185	322,251	334,787	347,810	361,340	375,396	389,999	405,170	420,931	437,305	454,316
Building Maint/Repair Supply	15,255	15,848	16,465	17,105	17,771	18,462	19,180	19,926	20,702	21,507	22,343
Janitorial Supplies	2,848	2,959	3,074	3,193	3,318	3,447	3,581	3,720	3,865	4,015	4,171
Health & Safety Supplies	6,102	6,339	6,586	6,842	7,108	7,385	7,672	7,971	8,281	8,603	8,937
Electricity (Hydro)	350,000	367,500	385,875	405,169	425,427	446,699	469,033	492,485	517,109	542,965	570,113
Water	30,000	30,900	31,827	32,782	33,765	34,778	35,822	36,896	38,003	39,143	40,317
Natural gas - heating	30,000	31,500	33,075	34,729	36,465	38,288	40,203	42,213	44,324	46,540	48,867
PC OPERATIONS EXPENSES	\$3,101,510	\$3,199,875	\$3,301,744	\$3,407,254	\$3,516,546	\$3,629,769	\$3,747,075	\$3,868,625	\$3,994,585	\$4,125,130	\$4,260,439
PUMP STATION OPERATIONS EXPENSES											
SCADA Expense	35,000	36,362	37,776	39,245	40,772	42,358	44,006	45,718	47,496	49,344	51,263
SCADA Maintenance	15,000	15,584	16,190	16,819	17,474	18,153	18,860	19,593	20,355	21,147	21,970
Build Maint/Repair Supply - St Thomas PS	36,000	37,400	38,855	40,367	41,937	43,568	45,263	47,024	48,853	50,754	52,728
Pumping Station Upgrades	100,000	103,890	107,931	112,130	116,492	121,023	125,731	130,622	135,703	140,982	146,466
Electricity - St Thomas Pumping Stations	61,000	64,050	67,253	70,615	74,146	77,853	81,746	85,833	90,125	94,631	99,363
Electricity - Central Elgin Pumping Stations	11,000	11,550	12,128	12,734	13,371	14,039	14,741	15,478	16,252	17,065	17,918
Water	20,000	20,600	21,218	21,855	22,510	23,185	23,881	24,597	25,335	26,095	26,878
Natural gas - heating	3,200	3,360	3,528	3,704	3,890	4,084	4,288	4,503	4,728	4,964	5,212
PUMP STATION EXPENSES	\$281,200	\$292,795	\$304,878	\$317,469	\$330,591	\$344,265	\$358,516	\$373,368	\$388,848	\$404,982	\$421,798
FINANCING EXPENSES											
Principal Payment Expense	-	56,611	58,725	131,264	140,633	394,727	409,467	424,757	440,618	457,072	474,140
Interest Expense	-	83,656	81,542	193,972	184,602	547,070	532,330	517,040	501,178	484,725	467,657
FINANCING EXPENSES	\$0	\$140,268	\$140,268	\$325,236	\$325,236	\$941,797	\$941,797	\$941,797	\$941,797	\$941,797	\$941,797
TOTAL SANITARY OPERATIONS EXPENSES	\$4,799,810	\$5,095,999	\$5,257,547	\$5,609,908	\$5,783,372	\$6,579,703	\$6,766,026	\$6,959,156	\$7,159,360	\$7,366,913	\$7,582,105

STORMWATER SYSTEM OPERATIONS & MAINTENANCE EXPENSE FORECAST (2023 - 2032) (INFLATED \$)											
DESCRIPTION	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	BUDGET	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST
Reg FT Salaries & Wages	310,565	316,776	323,112	329,574	336,166	342,889	349,747	356,742	363,876	371,154	378,577
Reg PT Salaries & Wages	13,385	13,653	13,926	14,204	14,488	14,778	15,074	15,375	15,683	15,996	16,316
Supervisor Labour Dist.	47,290	48,236	49,201	50,185	51,188	52,212	53,256	54,321	55,408	56,516	57,646
All Overtime	10,000	10,200	10,404	10,612	10,824	11,041	11,262	11,487	11,717	11,951	12,190
All Statutory Benefits	29,965	30,564	31,176	31,799	32,435	33,084	33,745	34,420	35,109	35,811	36,527
All Employer Benefits	43,800	44,676	45,570	46,481	47,411	48,359	49,326	50,312	51,319	52,345	53,392
ESC and Storm Repair	55,000	57,140	59,362	61,671	64,070	66,563	69,152	71,842	74,637	77,540	80,556
Job Costing Labour	225,000	229,500	234,090	238,772	243,547	248,418	253,387	258,454	263,623	268,896	274,274
Job Costing Materials	42,500	44,153	45,871	47,655	49,509	51,435	53,436	55,514	57,674	59,917	62,248
Job Costing Equipment	47,500	49,348	51,267	53,262	55,334	57,486	59,722	62,045	64,459	66,966	69,571
Job Costing Subcontractors	75,000	77,918	80,948	84,097	87,369	90,767	94,298	97,966	101,777	105,737	109,850
Payroll and Benefits Clearing	(292,500)	(298,350)	(304,317)	(310,403)	(316,611)	(322,944)	(329,403)	(335,991)	(342,710)	(349,565)	(356,556)
Standby	6,000	6,120	6,242	6,367	6,495	6,624	6,757	6,892	7,030	7,171	7,314
Sewer Video Inspection	10,000	10,389	10,793	11,213	11,649	12,102	12,573	13,062	13,570	14,098	14,647
OMERS	32,645	33,298	33,964	34,643	35,336	36,043	36,764	37,499	38,249	39,014	39,794
Office Supplies	3,500	3,636	3,778	3,925	4,077	4,236	4,401	4,572	4,750	4,934	5,126
Uniforms/Supply	2,500	2,597	2,698	2,803	2,912	3,026	3,143	3,266	3,393	3,525	3,662
Basement Grant Program	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500	32,500
TOTAL STORMWATER OPERATIONS EXPENSES	\$694,650	\$712,353	\$730,584	\$749,360	\$768,699	\$788,619	\$809,139	\$830,280	\$852,062	\$874,506	\$897,635

Appendix C: Lifecycle Analysis – Sanitary Sewer System

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS10	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	200	AC	77.9	63,820	851
SAS100	CALDWELL STREET	DYER STREET	MCLARTY DRIVE	200	AC	42.1	34,491	460
SAS1005	TALBOT ROAD	PLEASANT STREET	KING STREET	250	VC	118.9	111,630	1,488
SAS1008	EASEMENT	WALNUT STREET	SUNSET DRIVE	450	DI	38.1	40,327	538
SAS1009	EASEMENT	WALNUT STREET	SUNSET DRIVE	200	DI	39.3	32,197	429
SAS101	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	200	AC	55.2	45,223	603
SAS1010	EASEMENT	WALNUT STREET	SUNSET DRIVE	200	DI	35.4	29,002	387
SAS1011	EASEMENT	WALNUT STREET	SUNSET DRIVE	200	DI	39.6	32,443	433
SAS1012	SUNSET DRIVE	STANLEY STREET	FINGAL LINE	150	PVC	566.9	464,438	6,193
SAS1016	TALBOT ROAD	CHURCH STREET	STANLEY STREET	200	VC	54.9	44,977	600
SAS1017	TALBOT ROAD	CHURCH STREET	STANLEY STREET	200	VC	43.6	35,720	476
SAS102	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	200	AC	87.2	71,439	953
SAS103	MCLARTY DRIVE	LUTON CRESCENT	LUTON CRESCENT	200	AC	55.2	45,223	603
SAS1035	TALBOT STREET	MONDAMIN STREET	PRINCESS AVENUE	900	Brick	105.2	161,678	2,156
SAS1036	TALBOT STREET	SOUTHWICK STREET	HIAWATHA STREET	900	Brick	39.9	61,321	818
SAS1039	CENTRE STREET	WHITE STREET	PRINCESS AVENUE	225	VC	57.6	47,189	629
SAS104	MCLARTY DRIVE	CALDWELL STREET	LUTON CRESCENT	200	AC	85	69,637	928
SAS1046	WELLINGTON STREET	PRINCESS AVENUE	MOORE STREET	300	PVC	78	77,895	1,039
SAS1047	WELLINGTON STREET	SOUTHWICK STREET	PRINCESS AVENUE	375	PVC	80	82,285	1,097
SAS1049	WELLINGTON STREET	HINCKS STREET	SOUTHWICK STREET	375	PVC	73.6	75,702	1,009
SAS105	CALDWELL STREET	FAIRVIEW AVENUE	DYER STREET	200	AC	82	67,179	896
SAS1054	SOUTHWICK STREET	TALBOT STREET	CENTRE STREET	250	VC	91.4	85,812	1,144
SAS1058	SOUTHWICK STREET	GLADSTONE AVENUE	ROSEBERY PLACE	200	VC	12	9,831	131
SAS1059	PRINCESS AVENUE	GLADSTONE AVENUE	ROSEBERY PLACE	250	VC	101.2	95,013	1,267
SAS1062	PRINCESS AVENUE	CENTRE STREET	ELIZABETH STREET	450	VC	128	135,483	1,806
SAS1064	PRINCESS AVENUE	ELIZABETH STREET	MITCHELL STREET	450	VC	111.3	117,807	1,571
SAS1064	PRINCESS AVENUE	MITCHELL STREET	WELLINGTON STREET	450	VC	111.3	117,807	1,571
SAS1065	PRINCESS AVENUE	WELLINGTON STREET	GLADSTONE AVENUE	450	VC	109.7	116,113	1,548
SAS1066	SUNSET DRIVE	STANLEY STREET	FINGAL LINE	200	VC	69.5	56,939	759
SAS1067	SUNSET DRIVE	STANLEY STREET	FINGAL LINE	200	VC	89	72,914	972
SAS1068	SUNSET DRIVE	BUSH LINE	STANLEY STREET	200	VC	61.9	50,712	676
SAS1069	SUNSET DRIVE	BUSH LINE	STANLEY STREET	200	VC	52.4	42,929	572
SAS1074	WHITE STREET	CENTRE STREET	TALBOT STREET	200	VC	99.1	81,189	1,083
SAS1076	WILLIAM STREET	TALBOT STREET	CENTRE STREET	200	VC	17.6	14,419	192
SAS1079	HIGHVIEW DRIVE	CROATIA COURT	CHESTNUT STREET	200	VC	97.2	79,632	1,062
SAS1081	CHURCHILL CRESCENT	BRANT AVENUE	SIMCOE STREET	525	VC	10	11,183	149
SAS1082	CHURCHILL CRESCENT	BRANT AVENUE	SIMCOE STREET	450	CO	18	19,052	254
SAS1083	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	450	CO	66.8	70,705	943
SAS1084	MONTGOMERY ROAD	WEST END	ERMATINGER STREET	375	VC	42.7	43,920	586
SAS1086	MARGARET STREET	STANLEY STREET	VICTORIA STREET	200	VC	35.9	29,411	392
SAS1087	RAVINE	RAILROAD TRACKS	ELMINA STREET	1200	CO	87.7	174,116	2,322
SAS1088	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	300	VC	39	38,948	519
SAS1089	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	300	VC	59.4	59,320	791
SAS1090	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	300	VC	68.6	68,508	913

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1091	SOUTH EDGEWARE ROAD	HARPER ROAD	HIGHBURY AVENUE	300	VC	78.6	78,495	1,047
SAS1092	PROGRESS DRIVE	SOUTH EDGEWARE ROAD	HARPER ROAD	250	PVC	32.3	30,325	404
SAS1093	PROGRESS DRIVE	SOUTH EDGEWARE ROAD	HARPER ROAD	250	PVC	27.7	26,006	347
SAS1094	PROGRESS DRIVE	SOUTH EDGEWARE ROAD	HARPER ROAD	250	PVC	42.7	40,089	535
SAS1095	PROGRESS DRIVE	SOUTH EDGEWARE ROAD	HARPER ROAD	250	PVC	70.1	65,814	878
SAS1096	PROGRESS DRIVE	SOUTH EDGEWARE ROAD	HARPER ROAD	250	PVC	82.3	77,268	1,030
SAS1097	PROGRESS DRIVE	SOUTH EDGEWARE ROAD	HARPER ROAD	250	PVC	67.1	62,998	840
SAS1098	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	HARPER ROAD	300	VC	101.5	101,364	1,352
SAS1099	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	HARPER ROAD	300	VC	101.5	101,364	1,352
SAS11	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	200	AC	81.1	66,442	886
SAS1100	NULL	NULL	NULL	300	VC	16.8	16,777	224
SAS1101	HARPER ROAD	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	150	PVC	71.6	58,659	782
SAS1102	HARPER ROAD	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	375	AC	88.2	90,719	1,210
SAS1103	HARPER ROAD	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	375	AC	92	94,628	1,262
SAS1104	HARPER ROAD	PROGRESS DRIVE	60M NORTH OF ANDERSON AVENUE	375	AC	91.4	94,010	1,253
SAS1106	LAING BOULEVARD	SPACKMAN BOULEVARD	ANDERSON AVENUE	375	AC	91.4	94,010	1,253
SAS1107	LAING BOULEVARD	ANDERSON AVENUE	EDWARD STREET	375	AC	92.8	95,450	1,273
SAS1108	LAING BOULEVARD	ANDERSON AVENUE	EDWARD STREET	375	AC	92	94,628	1,262
SAS1110	EDWARD STREET	BARRIE BOULEVARD	CENTENNIAL AVENUE	375	VC	99.1	101,930	1,359
SAS1111	EDWARD STREET	BARRIE BOULEVARD	CENTENNIAL AVENUE	375	VC	99.1	101,930	1,359
SAS1112	EDWARD STREET	BARRIE BOULEVARD	CENTENNIAL AVENUE	375	VC	57	58,628	782
SAS1113	BARRIE BOULEVARD	EDWARD STREET	NORTH END	250	VC	106.4	99,895	1,332
SAS1114	BARRIE BOULEVARD	EDWARD STREET	NORTH END	250	VC	106.4	99,895	1,332
SAS1115	NULL	NULL	NULL	375	VC	24.4	25,097	335
SAS1116	EDWARD STREET	LAING BOULEVARD	BARRIE BOULEVARD	375	VC	94.5	97,199	1,296
SAS1118	EASEMENT	SPARLING ROAD	LAING BOULEVARD	250	CO	88.7	83,277	1,110
SAS1119	EASEMENT	SPARLING ROAD	LAING BOULEVARD	250	CO	85.6	80,366	1,072
SAS112	MCLARTY DRIVE	LUTON CRESCENT	LUTON CRESCENT	200	AC	100.3	82,172	1,096
SAS1120	SPARLING ROAD	SPACKMAN BOULEVARD	ANDERSON AVENUE	300	VC	93.3	93,175	1,242
SAS1121	SPARLING ROAD	SPACKMAN BOULEVARD	ANDERSON AVENUE	300	VC	93.9	93,774	1,250
SAS1122	SPARLING ROAD	EDWARD STREET	ANDERSON AVENUE	300	VC	100.3	100,166	1,336
SAS1123	EDWARD STREET	SPARLING ROAD	LAING BOULEVARD	375	VC	32.1	33,017	440
SAS1124	EDWARD STREET	SPARLING ROAD	LAING BOULEVARD	375	VC	91.6	94,216	1,256
SAS1125	EDWARD STREET	SPARLING ROAD	LAING BOULEVARD	375	VC	61	62,742	837
SAS1126	EDWARD STREET	GAYLORD ROAD	SPARLING ROAD	375	VC	30.8	31,680	422
SAS1127	EDWARD STREET	GAYLORD ROAD	SPARLING ROAD	375	VC	85.3	87,736	1,170
SAS1128	EDWARD STREET	GAYLORD ROAD	SPARLING ROAD	375	VC	81.8	84,136	1,122
SAS1129	EDWARD STREET	GAYLORD ROAD	SPARLING ROAD	375	VC	82.6	84,959	1,133
SAS113	MCLARTY DRIVE	LUTON CRESCENT	LUTON CRESCENT	200	AC	101.2	82,909	1,105
SAS1130	GAYLORD ROAD	EDWARD STREET	NORTH OT RAILROAD TRACKS	375	VC	61	62,742	837
SAS1131	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	375	VC	80.8	83,108	1,108
SAS1132	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	375	VC	81.7	84,033	1,120

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1134	SOUTH EDGEWARE ROAD	BURWELL ROAD	HARWILL ROAD	250	VC	91.4	85,812	1,144
SAS1137	BURWELL ROAD	EDWARD STREET	TALBOT STREET	300	CO	11.7	11,684	156
SAS1138	BURWELL ROAD	HARWILL ROAD	EDWARD STREET	300	CO	94.5	94,373	1,258
SAS1139	BURWELL ROAD	HARWILL ROAD	EDWARD STREET	300	CO	94.5	94,373	1,258
SAS114	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	200	AC	100	81,926	1,092
SAS1140	BURWELL ROAD	HARWILL ROAD	EDWARD STREET	300	CO	96.1	95,971	1,280
SAS1141	EDWARD STREET	CURRAH ROAD	BURWELL ROAD	300	PVC	91.1	90,978	1,213
SAS1142	EDWARD STREET	CURRAH ROAD	BURWELL ROAD	375	PVC	90.1	92,673	1,236
SAS1143	EDWARD STREET	CURRAH ROAD	BURWELL ROAD	375	PVC	95.8	98,536	1,314
SAS1144	CURRAH ROAD	EDWARD STREET	NORTH END	250	PVC	91.3	85,718	1,143
SAS1145	CURRAH ROAD	EDWARD STREET	NORTH END	250	PVC	91.7	86,093	1,148
SAS1146	CURRAH ROAD	EDWARD STREET	NORTH END	250	PVC	92.8	87,126	1,162
SAS1147	EDWARD STREET	ONTARIO ROAD	CURRAH ROAD	375	PVC	117.5	120,856	1,611
SAS1148	EDWARD STREET	ONTARIO ROAD	CURRAH ROAD	375	PVC	117.8	121,164	1,616
SAS1149	EDWARD STREET	FIRST AVENUE	ONTARIO ROAD	450	VC	71.1	75,257	1,003
SAS115	MCLARTY DRIVE	LUTON CRESCENT	LUTON CRESCENT	200	AC	82.4	67,507	900
SAS1150	EDWARD STREET	FIRST AVENUE	ONTARIO ROAD	450	VC	106.4	112,620	1,502
SAS1151	EDWARD STREET	FIRST AVENUE	ONTARIO ROAD	450	VC	100.3	106,164	1,416
SAS1152	DUCKWORTH AVENUE	WEST END	ONTARIO ROAD	300	VC	82.3	82,190	1,096
SAS1153	DUCKWORTH AVENUE	WEST END	ONTARIO ROAD	300	VC	82.3	82,190	1,096
SAS1154	DUCKWORTH AVENUE	WEST END	ONTARIO ROAD	300	VC	79.2	79,094	1,055
SAS1155	ONTARIO ROAD	EDWARD STREET	DUCKWORTH AVENUE	300	VC	58.5	58,422	779
SAS1156	ONTARIO ROAD	EDWARD STREET	DUCKWORTH AVENUE	300	VC	94.5	94,373	1,258
SAS1157	ONTARIO ROAD	EDWARD STREET	DUCKWORTH AVENUE	300	VC	91.4	91,278	1,217
SAS1158	SOUTH EDGEWARE ROAD	BURWELL ROAD	HARWILL ROAD	250	VC	91.4	85,812	1,144
SAS1159	SOUTH EDGEWARE ROAD	BURWELL ROAD	HARWILL ROAD	250	VC	91.4	85,812	1,144
SAS116	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	200	AC	100.6	82,418	1,099
SAS1160	SOUTH EDGEWARE ROAD	BURWELL ROAD	HARWILL ROAD	250	VC	91.4	85,812	1,144
SAS1161	SOUTH EDGEWARE ROAD	BURWELL ROAD	HARWILL ROAD	250	VC	99.8	93,698	1,249
SAS1162	BURWELL ROAD	SOUTH EDGEWARE ROAD	HARWILL ROAD	300	VC	94.5	94,373	1,258
SAS1163	BURWELL ROAD	SOUTH EDGEWARE ROAD	HARWILL ROAD	300	VC	94.6	94,473	1,260
SAS1164	BURWELL ROAD	SOUTH EDGEWARE ROAD	HARWILL ROAD	300	VC	94.7	94,573	1,261
SAS1165	HIGHWAY #3 BYPASS	FLEX-O-LITE ROAD	BURWELL ROAD	300	CO	73.8	73,701	983
SAS1167	HIGHWAY #3 BYPASS	FLEX-O-LITE ROAD	BURWELL ROAD	300	CO	88.8	88,681	1,182
SAS1168	HIGHWAY #3 BYPASS	FLEX-O-LITE ROAD	BURWELL ROAD	300	CO	91.4	91,278	1,217
SAS1169	HIGHWAY #3 BYPASS	FLEX-O-LITE ROAD	BURWELL ROAD	300	CO	99.4	99,267	1,324
SAS117	LUTON CRESCENT	MCLARTY DRIVE	ELM STREET	250	AC	55	51,637	688
SAS1170	HIGHWAY #3 BYPASS	FLEX-O-LITE ROAD	BURWELL ROAD	300	CO	44.8	44,740	597
SAS1171	HIGHWAY #3 BYPASS	FLEX-O-LITE ROAD	BURWELL ROAD	300	CO	116.5	116,344	1,551
SAS1172	HIGHWAY #3 BYPASS	FIRST AVENUE	FLEX-O-LITE ROAD	300	CO	30.5	30,459	406
SAS1173	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	CONFEDERATION DRIVE	300	VC	85.3	85,186	1,136
SAS1175	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	CONFEDERATION DRIVE	300	VC	86.3	86,184	1,149

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1176	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	FLEX-O-LITE ROAD	300	VC	85.3	85,186	1,136
SAS1177	SOUTH EDGEWARE ROAD	FIRST AVENUE	FLEX-O-LITE ROAD	300	AC	83.3	83,188	1,109
SAS1178	SOUTH EDGEWARE ROAD	FIRST AVENUE	FLEX-O-LITE ROAD	300	AC	91.1	90,978	1,213
SAS1179	SOUTH EDGEWARE ROAD	FIRST AVENUE	FLEX-O-LITE ROAD	300	AC	92	91,877	1,225
SAS118	LUTON CRESCENT	MCLARTY DRIVE	ELM STREET	250	AC	48.5	45,535	607
SAS1180	CONFEDERATION DRIVE	LAURIER ROAD	LOCKE AVENUE	300	AC	499.9	499,230	6,656
SAS1180	CONFEDERATION DRIVE	LOCKE AVENUE	NORTHWOOD PLACE	300	AC	499.9	499,230	6,656
SAS1180	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	FLEX-O-LITE ROAD	300	AC	499.9	499,230	6,656
SAS1180	CONFEDERATION DRIVE	SOUTH EDGEWARE ROAD	LAURIER ROAD	300	AC	499.9	499,230	6,656
SAS1180	CONFEDERATION DRIVE	NORTHWOOD PLACE	WARREN CRESCENT	300	AC	499.9	499,230	6,656
SAS1181	FLEX-O-LITE ROAD	SOUTH EDGEWARE ROAD	DUCKWORTH AVENUE	300	VC	91.4	91,278	1,217
SAS1184	FLEX-O-LITE ROAD	SOUTH EDGEWARE ROAD	DUCKWORTH AVENUE	300	VC	107.3	107,156	1,429
SAS1185	FLEX-O-LITE ROAD	SOUTH EDGEWARE ROAD	DUCKWORTH AVENUE	300	VC	36.6	36,551	487
SAS1186	HIGHWAY #3 BYPASS	FIRST AVENUE	FLEX-O-LITE ROAD	300	CO	18	17,976	240
SAS1187	HIGHWAY #3 BYPASS	FIRST AVENUE	FLEX-O-LITE ROAD	300	CO	20.7	20,672	276
SAS1188	HIGHWAY #3 BYPASS	FIRST AVENUE	FLEX-O-LITE ROAD	525	CO	36.6	40,928	546
SAS1189	HIGHWAY #3 BYPASS	FIRST AVENUE	FLEX-O-LITE ROAD	525	CO	61	68,214	910
SAS119	LAWRENCE AVENUE	CHANT STREET	CALDWELL STREET	200	AC	64.2	52,596	701
SAS1190	HIGHWAY #3 BYPASS	FIRST AVENUE	FLEX-O-LITE ROAD	525	CO	76.2	85,211	1,136
SAS1191	HIGHWAY #3 BYPASS	WOODWORTH AVENUE	JOYCE STREET	525	CO	110.3	123,344	1,645
SAS1192	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	375	VC	90.5	93,085	1,241
SAS1193	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	375	VC	91.7	94,319	1,258
SAS1194	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	375	VC	91.4	94,010	1,253
SAS1195	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	375	VC	93	95,656	1,275
SAS1196	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	375	VC	94.5	97,199	1,296
SAS1197	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	375	VC	46	47,314	631
SAS1198	YARMOUTH ROAD	NORTH END	MICHIGAN BOULEVARD	300	VC	108.8	108,654	1,449
SAS1199	YARMOUTH ROAD	RAILROAD TRACKS	TALBOT STREET	375	VC	111.3	114,479	1,526
SAS12	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	200	AC	53.6	43,912	585
SAS120	LAWRENCE AVENUE	CHANT STREET	CALDWELL STREET	200	AC	64	52,433	699
SAS1200	YARMOUTH ROAD	RAILROAD TRACKS	TALBOT STREET	375	VC	61	62,742	837
SAS1201	YARMOUTH ROAD	MICHIGAN BOULEVARD	TALBOT STREET	375	VC	61.6	63,359	845
SAS1202	BURWELL ROAD	EDWARD STREET	TALBOT STREET	200	VC	4	3,277	44
SAS1203	ALEXANDRIA AVENUE	TALBOT STREET	MALAKOFF STREET	250	VC	10	9,389	125
SAS1204	BURWELL ROAD	EDWARD STREET	TALBOT STREET	300	CO	106.7	106,557	1,421
SAS1205	BURWELL ROAD	EDWARD STREET	TALBOT STREET	300	CO	109.7	109,553	1,461
SAS1206	BURWELL ROAD	EDWARD STREET	TALBOT STREET	300	CO	109.6	109,453	1,459
SAS1207	TECUMSEH STREET	WEST END	HUGHES STREET	250	VC	70.1	65,814	878
SAS1208	TECUMSEH STREET	WEST END	HUGHES STREET	250	VC	70.1	65,814	878
SAS1209	TECUMSEH STREET	WEST END	HUGHES STREET	250	VC	62.2	58,397	779

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS121	LAWRENCE AVENUE	CHANT STREET	CALDWELL STREET	200	AC	65.5	53,662	715
SAS1210	TECUMSEH STREET	HUGHES STREET	EAST END	250	VC	61.3	57,552	767
SAS1211	TECUMSEH STREET	HUGHES STREET	EAST END	250	VC	70.1	65,814	878
SAS1212	HUGHES STREET	MONTCALM STREET	TECUMSEH STREET	250	VC	39.6	37,179	496
SAS1213	HUGHES STREET	MONTCALM STREET	TECUMSEH STREET	250	VC	62.5	58,679	782
SAS1214	MONTCALM STREET	WEST END	HUGHES STREET	250	VC	100	93,886	1,252
SAS1215	MONTCALM STREET	WEST END	HUGHES STREET	250	VC	91.7	86,093	1,148
SAS1216	MONTCALM STREET	HUGHES STREET	EAST END	250	VC	60.4	56,707	756
SAS1217	MONTCALM STREET	HUGHES STREET	EAST END	250	VC	61	57,270	764
SAS1218	HUGHES STREET	BROCK STREET	MONTCALM STREET	250	VC	100	93,886	1,252
SAS1219	BROCK STREET	WEST END	HUGHES STREET	250	VC	48.2	45,253	603
SAS122	BUTLER DRIVE	LAWRENCE AVENUE	LAWRENCE AVENUE	200	AC	85.2	69,801	931
SAS1220	BROCK STREET	WEST END	HUGHES STREET	250	VC	37.2	34,926	466
SAS1221	BROCK STREET	WEST END	HUGHES STREET	250	VC	96	90,131	1,202
SAS1222	BROCK STREET	HUGHES STREET	ALMA STREET	250	VC	60.7	56,989	760
SAS1223	HUGHES STREET	BROCK STREET	HIGHWAY #3 BYPASS	200	PVC	30.1	24,660	329
SAS1224	HUGHES STREET	BROCK STREET	HIGHWAY #3 BYPASS	200	PVC	24.4	19,990	267
SAS1225	BROCK STREET	HUGHES STREET	ALMA STREET	250	VC	31.4	29,480	393
SAS1226	BROCK STREET	HUGHES STREET	ALMA STREET	250	AC	103.6	97,266	1,297
SAS1227	ALMA STREET	HIGHWAY #3 BYPASS	BROCK STREET	200	VC	24.4	19,990	267
SAS1228	ALMA STREET	BROCK STREET	HAMMOND STREET	300	VC	41.1	41,045	547
SAS1229	ALMA STREET	HAMMOND STREET	NORTH END	250	VC	90.8	85,248	1,137
SAS123	BUTLER DRIVE	LAWRENCE AVENUE	LAWRENCE AVENUE	200	AC	95.5	78,239	1,043
SAS1231	ALMA STREET	HAMMOND STREET	NORTH END	250	VC	97.7	91,727	1,223
SAS1232	HAMMOND STREET	ALMA STREET	BALACLAVA STREET	300	AC	61	60,918	812
SAS1233	HAMMOND STREET	ALMA STREET	BALACLAVA STREET	300	AC	68.3	68,208	909
SAS1235	SOUTH EDGEWARE ROAD	DALEWOOD DRIVE	WOODWORTH AVENUE	300	VC	87.2	87,083	1,161
SAS1236	SOUTH EDGEWARE ROAD	BALACLAVA STREET	INKERMAN STREET	300	VC	88.1	87,982	1,173
SAS1237	SOUTH EDGEWARE ROAD	BALACLAVA STREET	INKERMAN STREET	300	VC	87.5	87,383	1,165
SAS1238	BALACLAVA STREET	HAMMOND STREET	SOUTH EDGEWARE ROAD	300	VC	92.4	92,276	1,230
SAS1239	BALACLAVA STREET	HAMMOND STREET	SOUTH EDGEWARE ROAD	300	VC	87.8	87,682	1,169
SAS124	BUTLER DRIVE	LAWRENCE AVENUE	LAWRENCE AVENUE	200	AC	95	77,830	1,038
SAS1241	BALACLAVA STREET	HAMMOND STREET	SOUTH EDGEWARE ROAD	300	VC	87.9	87,782	1,170
SAS1242	BALACLAVA STREET	HAMMOND STREET	SOUTH EDGEWARE ROAD	300	VC	86.9	86,784	1,157
SAS1243	GUEST STREET	INKERMAN STREET	EAST END	200	AC	71	58,167	776
SAS1244	INKERMAN STREET	GUEST STREET	SOUTH EDGEWARE ROAD	200	AC	38.1	31,214	416
SAS1245	INKERMAN STREET	JOHNSON PLACE	GUEST STREET	200	AC	93.3	76,437	1,019
SAS1246	JOHNSON PLACE	INKERMAN STREET	EAST END	200	AC	85.3	69,883	932
SAS1247	INKERMAN STREET	PATRICIA STREET	JOHNSON PLACE	200	AC	50.3	41,209	549
SAS1248	PATRICIA STREET	INKERMAN STREET	WEST END	200	VC	35.1	28,756	383
SAS1249	PATRICIA STREET	INKERMAN STREET	WOODWORTH AVENUE	200	VC	103.6	84,875	1,132
SAS125	BUTLER DRIVE	LAWRENCE AVENUE	LAWRENCE AVENUE	200	AC	95.8	78,485	1,046
SAS1250	INKERMAN STREET	HAMMOND STREET	PATRICIA STREET	200	AC	67.1	54,972	733
SAS1251	INKERMAN STREET	HAMMOND STREET	PATRICIA STREET	200	AC	71.3	58,413	779
SAS1252	HAMMOND STREET	BALACLAVA STREET	INKERMAN STREET	375	AC	66	67,885	905

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1253	HAMMOND STREET	BALACLAVA STREET	INKERMAN STREET	375	AC	65.7	67,576	901
SAS1254	INKERMAN STREET	HAMMOND STREET	SOUTH END	200	AC	10.1	8,275	110
SAS1256	HAMMOND STREET	INKERMAN STREET	WOODWORTH AVENUE	250	AC	105.8	99,331	1,324
SAS1257	WOODWORTH AVENUE	PATRICIA STREET	SOUTH EDGEWARE ROAD	300	VC	98.5	98,368	1,312
SAS1259	WOODWORTH AVENUE	PATRICIA STREET	SOUTH EDGEWARE ROAD	375	VC	103	105,942	1,413
SAS126	BUTLER DRIVE	LAWRENCE AVENUE	LAWRENCE AVENUE	200	AC	96	78,649	1,049
SAS1260	MCLACHLIN PLACE	PATRICIA STREET	JOYCE STREET	200	VC	91.4	74,880	998
SAS1261	JOYCE STREET	BRINKMAN COURT	SOUTH EDGEWARE ROAD	200	VC	39.6	32,443	433
SAS1262	BRINKMAN COURT	JOYCE STREET	WEST END	200	VC	73.2	59,970	800
SAS1263	JOYCE STREET	MCLACHLIN PLACE	BRINKMAN COURT	200	VC	25.9	21,219	283
SAS1264	JOYCE STREET	MCLACHLIN PLACE	BRINKMAN COURT	200	VC	76.2	62,428	832
SAS1265	MCLACHLIN PLACE	PATRICIA STREET	JOYCE STREET	200	VC	42.8	35,064	468
SAS1266	MCLACHLIN PLACE	PATRICIA STREET	JOYCE STREET	200	VC	21.3	17,450	233
SAS1267	MCLACHLIN PLACE	PATRICIA STREET	JOYCE STREET	200	VC	82.3	67,425	899
SAS1268	JOYCE STREET	PATRICIA STREET	MCLACHLIN PLACE	200	VC	49.4	40,471	540
SAS1269	JOYCE STREET	PATRICIA STREET	MCLACHLIN PLACE	200	VC	16.5	13,518	180
SAS1270	JOYCE STREET	PATRICIA STREET	MCLACHLIN PLACE	200	VC	22.6	18,515	247
SAS1271	JOYCE STREET	PATRICIA STREET	MCLACHLIN PLACE	200	VC	25.9	21,219	283
SAS1272	JOYCE STREET	HIGHWAY #3 BYPASS	PATRICIA STREET	200	VC	94.5	77,420	1,032
SAS1273	PATRICIA STREET	MCLACHLIN PLACE	JOYCE STREET	200	VC	81.7	66,934	892
SAS1274	PATRICIA STREET	WOODWORTH AVENUE	MCLACHLIN PLACE	200	VC	82.3	67,425	899
SAS1275	WOODWORTH AVENUE	HAMMOND STREET	PATRICIA STREET	300	VC	65.5	65,412	872
SAS1276	WOODWORTH AVENUE	HAMMOND STREET	PATRICIA STREET	300	VC	70.1	70,006	933
SAS1277	SOUTH EDGEWARE ROAD	FIRST AVENUE	LOCKE AVENUE	300	AC	86.6	86,484	1,153
SAS1278	SOUTH EDGEWARE ROAD	WOODWORTH AVENUE	LOCKE AVENUE	300	AC	96.1	95,971	1,280
SAS1279	SOUTH EDGEWARE ROAD	WOODWORTH AVENUE	LOCKE AVENUE	300	AC	91.4	91,278	1,217
SAS1282	ALMA STREET	HIGHWAY #3 BYPASS	EDWARD STREET	200	PVC	19.4	15,894	212
SAS1283	ALMA STREET	HIGHWAY #3 BYPASS	EDWARD STREET	200	PVC	70.1	57,430	766
SAS1284	ALMA STREET	HIGHWAY #3 BYPASS	EDWARD STREET	200	PVC	82.3	67,425	899
SAS1285	ALMA STREET	EDWARD STREET	HIGHWAY #3 BYPASS	200	VC	8.5	6,964	93
SAS1288	WOODWORTH AVENUE	JOYCE STREET	HAMMOND STREET	375	CO	35.3	36,308	484
SAS1289	WOODWORTH AVENUE	HAMMOND STREET	HIGHWAY #3 BYPASS	375	VC	80.8	83,108	1,108
SAS1290	HIGHWAY #3 BYPASS	WOODWORTH AVENUE	JOYCE STREET	375	CO	6.1	6,274	84
SAS1291	HIGHWAY #3 BYPASS	WOODWORTH AVENUE	JOYCE STREET	525	CO	103.6	115,852	1,545
SAS1292	DANIEL STREET	FRISCH STREET	EAST END	200	VC	38.1	31,214	416
SAS1293	FRISCH STREET	JOYCE STREET	DANIEL STREET	200	VC	58.2	47,681	636
SAS1298	WOODWORTH AVENUE	JOYCE STREET	HAMMOND STREET	375	VC	23.5	24,171	322
SAS1299	WOODWORTH AVENUE	JOYCE STREET	HAMMOND STREET	600	VC	7.6	8,726	116
SAS13	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	200	AC	54.9	44,977	600
SAS130	CHANT STREET	APPLEWOOD CRESCENT	LAWRENCE AVENUE	250	AC	95	89,192	1,189
SAS1300	EDWARD STREET	WOODWORTH AVENUE	FIRST AVENUE	375	VC	85.6	88,045	1,174
SAS1301	EDWARD STREET	WOODWORTH AVENUE	FIRST AVENUE	375	VC	88.4	90,925	1,212
SAS1302	EDWARD STREET	WOODWORTH AVENUE	FIRST AVENUE	375	VC	87.8	90,308	1,204
SAS1304	WOODWORTH AVENUE	EDWARD STREET	DANIEL STREET	375	VC	23.5	24,171	322
SAS1305	WOODWORTH AVENUE	DANIEL STREET	JOYCE STREET	375	VC	78.3	80,536	1,074

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS131	APPLEWOOD CRESCENT	CHANT STREET	CHANT STREET	200	AC	79.1	64,803	864
SAS1310	EDWARD STREET	BALACLAVA STREET	INKERMAN STREET	200	PVC	62.4	51,122	682
SAS1311	BALACLAVA STREET	EDWARD STREET	HAMMOND STREET	200	PVC	103.5	84,793	1,131
SAS1313	BALACLAVA STREET	NOLAN STREET	EDWARD STREET	200	PVC	62.5	51,204	683
SAS1315	NOLAN STREET	BALACLAVA STREET	INKERMAN STREET	250	PVC	64	60,087	801
SAS1316	NOLAN STREET	ALMA STREET	BALACLAVA STREET	250	PVC	66.2	62,153	829
SAS132	APPLEWOOD CRESCENT	CHANT STREET	CHANT STREET	200	AC	81.5	66,770	890
SAS1320	ALMA STREET	REDAN STREET	NOLAN STREET	300	PVC	96	95,871	1,278
SAS1323	DANIEL STREET	WOODWORTH AVENUE	FRISCH STREET	200	VC	105.8	86,678	1,156
SAS1325	WOODWORTH AVENUE	EDWARD STREET	DANIEL STREET	375	CO	13.7	14,091	188
SAS1326	ALEXANDRIA AVENUE	REDAN STREET	NORTH END	200	PVC	49.4	40,471	540
SAS1327	EASEMENT	ARTHUR AVENUE	ALEXANDRIA AVENUE	200	PVC	111.8	91,593	1,221
SAS1328	ARTHUR AVENUE	REDAN STREET	NORTH END	200	PVC	6.1	4,997	67
SAS133	APPLEWOOD CRESCENT	CHANT STREET	CHANT STREET	200	AC	84	68,818	918
SAS1330	ALEXANDRIA AVENUE	REDAN STREET	NORTH END	200	VC	45.7	37,440	499
SAS1334	REDAN STREET	NELSON STREET	WOODWORTH AVENUE	200	VC	62.5	51,204	683
SAS1335	REDAN STREET	NELSON STREET	WOODWORTH AVENUE	200	VC	62.5	51,204	683
SAS1336	WOODWORTH AVENUE	REDAN STREET	UKRANIAN STREET	200	VC	83.8	68,654	915
SAS1338	WOODWORTH AVENUE	UKRANIAN STREET	TRAFALGAR STREET	200	VC	37.8	30,968	413
SAS134	APPLEWOOD CRESCENT	CHANT STREET	CHANT STREET	200	AC	80	65,541	874
SAS1342	INKERMAN STREET	REDAN STREET	NOLAN STREET	250	VC	76.5	71,823	958
SAS1343	INKERMAN STREET	REDAN STREET	NOLAN STREET	250	VC	76.5	71,823	958
SAS1346	MILLER STREET	NOLAN STREET	REDAN STREET	250	VC	68.6	64,406	859
SAS1348	REDAN STREET	ALMA STREET	BALACLAVA STREET	300	VC	61	60,918	812
SAS1349	ALMA STREET	KAINS STREET	REDAN STREET	300	PVC	66.4	66,311	884
SAS135	APPLEWOOD CRESCENT	CHANT STREET	CHANT STREET	200	AC	80.3	65,787	877
SAS1350	ALMA STREET	KAINS STREET	REDAN STREET	300	PVC	64	63,914	852
SAS1351	KAINS STREET	MANITOBA STREET	ALMA STREET	450	PVC	94.5	100,024	1,334
SAS1353	BARWICK STREET	MANITOBA STREET	HUGHES STREET	300	CO	83.5	83,388	1,112
SAS136	CHANT STREET	APPLEWOOD CRESCENT	APPLEWOOD CRESCENT	250	AC	84.1	78,958	1,053
SAS1361	ONTARIO ROAD	DUCKWORTH AVENUE	HIGHWAY #3 BYPASS	300	VC	54	53,928	719
SAS137	CHANT STREET	ELM STREET	APPLEWOOD CRESCENT	250	AC	92	86,375	1,152
SAS1370	MARIAM STREET	YARWOOD STREET	HUGHES STREET	200	VC	97.8	80,124	1,068
SAS1376	WOODWORTH AVENUE	TRAFALGAR STREET	MALAKOFF STREET	200	VC	76.2	62,428	832
SAS138	ELM STREET	CHANT STREET	MANOR ROAD	300	VC	89	88,881	1,185
SAS1385	INKERMAN STREET	WELDON AVENUE	MALAKOFF STREET	250	VC	94	88,253	1,177
SAS1389	MALAKOFF STREET	ALMA STREET	BALACLAVA STREET	300	VC	64	63,914	852
SAS139	ELM STREET	CHANT STREET	MANOR ROAD	300	VC	81.7	81,591	1,088
SAS1390	ALMA STREET	MALAKOFF STREET	KAINS STREET	375	VC	59.4	61,096	815
SAS1392	ALMA STREET	MALAKOFF STREET	TALBOT STREET	250	VC	73.2	68,725	916
SAS1394	MANITOBA STREET	CELESTINE STREET	KAINS STREET	200	VC	85	69,637	928
SAS14	RAVEN AVENUE	PENHALE AVENUE	NOBLE LANE	200	AC	92	75,372	1,005
SAS140	ELM STREET	CHANT STREET	MANOR ROAD	300	VC	86	85,885	1,145

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1402	HORTON STREET	CELESTINE STREET	KAINS STREET	200	PVC	15	12,289	164
SAS1403	HORTON STREET	CELESTINE STREET	KAINS STREET	250	PVC	76.2	71,541	954
SAS1406	FLORA STREET	TALBOT STREET	KAINS STREET	250	CO	100.6	94,449	1,259
SAS1408	FIRST AVENUE	REDAN STREET	TALBOT STREET	450	AC	230.4	243,869	3,252
SAS1409	HUGHES STREET	BROCK STREET	WOLFE STREET	250	CO	54.9	51,543	687
SAS141	ELM STREET	CHANT STREET	MANOR ROAD	300	VC	83.8	83,688	1,116
SAS1410	FLORA STREET	BARWICK STREET	WOLFE STREET	250	PVC	51.7	48,539	647
SAS1411	WOLFE STREET	FLORA STREET	HUGHES STREET	200	PVC	73.4	60,134	802
SAS1412	WOLFE STREET	FLORA STREET	HUGHES STREET	200	PVC	82.4	67,507	900
SAS1413	HUGHES STREET	BARWICK STREET	WOLFE STREET	200	PVC	54	44,240	590
SAS142	ELM STREET	TAYLOR CRESCENT	CHANT STREET	300	VC	83.8	83,688	1,116
SAS1420	CURTIS STREET	NEW STREET	ST. GEORGE STREET	200	VC	45.7	37,440	499
SAS1422	TALBOT STREET	MARY STREET	SOUTHWICK STREET	900	Brick	71.9	110,500	1,473
SAS1428	EASEMENT	ST. GEORGE STREET	ATHLETIC PARK	250	CO	45	42,249	563
SAS143	ELM STREET	LUTON CRESCENT	TAYLOR CRESCENT	375	VC	94.5	97,199	1,296
SAS1436	TALBOT STREET	HIAWATHA STREET	WHITE STREET	900	Brick	125	192,108	2,561
SAS1437	HIAWATHA STREET	TALBOT STREET	CURTIS STREET	300	VC	48.8	48,735	650
SAS1439	SCOTT STREET	HIAWATHA STREET	MONDAMIN STREET	200	VC	79.2	64,885	865
SAS144	ELM STREET	FAIRVIEW AVENUE	LUTON CRESCENT	375	VC	88.4	90,925	1,212
SAS1441	PENWARDEN STREET	SCOTT STREET	ELYSIAN STREET	200	VC	67.1	54,972	733
SAS145	ELM STREET	FAIRVIEW AVENUE	LUTON CRESCENT	375	VC	93	95,656	1,275
SAS1451	CURTIS STREET	MONDAMIN STREET	ST. CATHARINE STREET	250	VC	24.4	22,908	305
SAS1452	MONDAMIN STREET	CURTIS STREET	SCOTT STREET	200	VC	85.3	69,883	932
SAS146	ELM STREET	RHONDA COURT	FAIRVIEW AVENUE	375	VC	53.9	55,439	739
SAS1460	EAST STREET	CURTIS STREET	SCOTT STREET	250	VC	87.5	82,150	1,095
SAS1461	CURTIS STREET	PEARL STREET	EAST STREET	200	VC	85.3	69,883	932
SAS1462	EAST STREET	TALBOT STREET	CURTIS STREET	250	VC	93	87,314	1,164
SAS1464	MARY STREET	CURTIS STREET	SCOTT STREET	250	VC	86.9	81,587	1,088
SAS1465	MARY STREET	TALBOT STREET	CURTIS STREET	250	VC	93	87,314	1,164
SAS147	ELM STREET	RHONDA COURT	FAIRVIEW AVENUE	450	VC	53.3	56,416	752
SAS1471	ELYSIAN STREET	PEARL STREET	EAST PEARL STREET	300	VC	3.1	3,096	41
SAS1472	NULL	NULL	NULL	300	VC	99.1	98,967	1,320
SAS1474	ELYSIAN STREET	PEARL STREET	EAST PEARL STREET	300	VC	52.4	52,330	698
SAS148	ELM STREET	YOUNG STREET	RHONDA COURT	450	VC	98.8	104,576	1,394
SAS1483	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	5.5	5,493	73
SAS1484	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	32.3	32,257	430
SAS1485	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	58.5	58,422	779
SAS1486	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	62.5	62,416	832
SAS1487	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	61.6	61,517	820
SAS1488	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	48.8	48,735	650
SAS1489	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	39.6	39,547	527
SAS149	ELM STREET	PARK AVENUE	YOUNG STREET	450	VC	109.1	115,478	1,540
SAS1490	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	96.9	96,770	1,290
SAS1491	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	16.2	16,178	216
SAS1495	HIAWATHA STREET	OWAISSA STREET	OMEMEE STREET	250	VC	92.7	87,032	1,160
SAS1496	HIAWATHA STREET	MEDA STREET	OMEMEE STREET	250	VC	30.5	28,635	382
SAS1499	ST. CATHARINE STREET	MEDA STREET	NORTH END	300	VC	48.8	48,735	650
SAS15	PORTER PLACE	RAVEN AVENUE	NORTH END	200	AC	65.5	53,662	715

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS150	ELM STREET	PULLEN AVENUE	PARK AVENUE	450	VC	18.3	19,370	258
SAS1505	ANTRIM STREET	MONDAMIN STREET	ST. CATHARINE STREET	200	VC	71.3	58,413	779
SAS1507	EAGLE STREET	MONDAMIN STREET	ST. CATHARINE STREET	250	VC	61	57,270	764
SAS1508	ST. CATHARINE STREET	SCOTT STREET	EAGLE STREET	450	VC	21.3	22,545	301
SAS1509	STATION STREET	MEDA STREET	NORTH	250	VC	16	15,022	200
SAS151	ELM STREET	PULLEN AVENUE	PARK AVENUE	450	VC	101.2	107,116	1,428
SAS1510	STATION STREET	KAINS STREET	MEDA STREET	250	VC	95.3	89,473	1,193
SAS1511	STATION STREET	KAINS STREET	MEDA STREET	250	VC	106.1	99,613	1,328
SAS1514	ST. CATHARINE STREET	CURTIS STREET	SCOTT STREET	450	VC	9.1	9,632	128
SAS1515	SCOTT STREET	MONDAMIN STREET	ST. CATHARINE STREET	450	CO	51.8	54,828	731
SAS1516	ST. CATHARINE STREET	CURTIS STREET	SCOTT STREET	450	VC	167.6	177,398	2,365
SAS1517	SCOTT STREET	MONDAMIN STREET	ST. CATHARINE STREET	450	CO	57.9	61,285	817
SAS152	PULLEN AVENUE	FRANCES STREET SOUTH	ALDBOROUGH AVENUE	200	VC	42.1	34,491	460
SAS1520	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	300	VC	91.4	91,278	1,217
SAS1521	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	300	VC	91.4	91,278	1,217
SAS1522	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	300	VC	91.4	91,278	1,217
SAS1523	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	300	VC	91.4	91,278	1,217
SAS1524	BURWELL ROAD	SANDERS COURT	MCGREGOR COURT	250	PVC	82.4	77,362	1,031
SAS1525	BURWELL ROAD	SANDERS COURT	SILVER STREET	250	PVC	106.2	99,707	1,329
SAS1525	BURWELL ROAD	SANDERS COURT	MCGREGOR COURT	250	PVC	106.2	99,707	1,329
SAS1526	BURWELL ROAD	BENNETT PLACE	SOUTH EDGEWARE ROAD	200	PVC	56.1	45,960	613
SAS1528	BURWELL ROAD	SILVER STREET	BENNETT PLACE	250	PVC	101.2	95,013	1,267
SAS1529	BURWELL ROAD	SANDERS COURT	SILVER STREET	250	PVC	101.2	95,013	1,267
SAS153	FRANCES STREET SOUTH	PULLEN AVENUE	WEST END	200	VC	77.1	63,165	842
SAS1530	EASEMENT	AVON ROAD	BURWELL ROAD	300	PVC	78	77,895	1,039
SAS1531	EASEMENT	AVON ROAD	BURWELL ROAD	300	AC	122.5	122,336	1,631
SAS1532	AVON ROAD	CONFEDERATION DRIVE	MCGREGOR COURT	200	AC	71.3	58,413	779
SAS1533	AVON ROAD	CONFEDERATION DRIVE	MCGREGOR COURT	200	AC	91.4	74,880	998
SAS1534	AVON ROAD	CONFEDERATION DRIVE	MCGREGOR COURT	375	AC	43	44,228	590
SAS1535	CONFEDERATION DRIVE	STIRLING CRESCENT	SOUTH EDGEWARE ROAD	200	AC	71.9	58,905	785
SAS1536	CONFEDERATION DRIVE	STIRLING CRESCENT	STIRLING CRESCENT	200	AC	77.7	63,657	849
SAS1537	CONFEDERATION DRIVE	STIRLING CRESCENT	STIRLING CRESCENT	200	AC	76.8	62,919	839
SAS1538	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	200	AC	53	43,421	579
SAS1539	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	200	AC	77.1	63,165	842
SAS154	PULLEN AVENUE	FRANCES STREET SOUTH	ALDBOROUGH AVENUE	200	VC	43.6	35,720	476
SAS1540	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	200	AC	72.2	59,151	789
SAS1541	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	200	AC	54.9	44,977	600
SAS1542	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	200	AC	13.4	10,978	146
SAS1543	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	200	AC	85.6	70,129	935
SAS1544	CONFEDERATION DRIVE	AVON ROAD	STIRLING CRESCENT	200	AC	74.4	60,953	813
SAS1545	CONFEDERATION DRIVE	AVON ROAD	STIRLING CRESCENT	200	AC	69.2	56,693	756
SAS1547	CONFEDERATION DRIVE	AVON ROAD	STIRLING CRESCENT	200	AC	65.8	53,907	719

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1548	CONFEDERATION DRIVE	AVON ROAD	STIRLING CRESCENT	200	AC	44.5	36,457	486
SAS1549	CONFEDERATION DRIVE	WARREN CRESCENT	AVON ROAD	400	AC	30.8	32,601	435
SAS155	FRANCES STREET NORTH	PULLEN AVENUE	WEST END	200	VC	77.1	63,165	842
SAS1550	WARREN CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	200	AC	80.8	66,196	883
SAS1551	WARREN CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	200	AC	93.9	76,929	1,026
SAS1552	CONFEDERATION DRIVE	LAKEVIEW CIRCLE	WARREN CRESCENT	400	AC	54.6	57,792	771
SAS1553	MACKENZIE PLACE	LAKEVIEW CIRCLE	SOUTH END	200	VC	68.9	56,447	753
SAS1554	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	200	VC	44.8	36,703	489
SAS1555	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	200	VC	39.9	32,688	436
SAS1556	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	200	VC	80.5	65,950	879
SAS1557	CONFEDERATION DRIVE	LAKEVIEW CIRCLE	LAKEVIEW CIRCLE	400	AC	63.4	67,106	895
SAS1558	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	200	VC	21.9	17,942	239
SAS1559	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	200	VC	72.5	59,396	792
SAS156	PULLEN AVENUE	FRANCES STREET NORTH	FRANCES STREET SOUTH	200	VC	80.8	66,196	883
SAS1560	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	200	VC	68	55,710	743
SAS1561	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	200	VC	84.7	69,391	925
SAS1562	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	200	VC	35.7	29,248	390
SAS1563	CONFEDERATION DRIVE	LAKEVIEW CIRCLE	WARREN CRESCENT	400	AC	46.6	49,324	658
SAS1564	WARREN CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	200	AC	80.5	65,950	879
SAS1565	WARREN CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	200	AC	92.7	75,945	1,013
SAS1566	CONFEDERATION DRIVE	NORTHWOOD PLACE	WARREN CRESCENT	400	VC	11	11,643	155
SAS1567	CONFEDERATION DRIVE	NORTHWOOD PLACE	WARREN CRESCENT	400	VC	11.3	11,961	159
SAS1568	WOODHAVEN COURT	LOCKE AVENUE	END	200	VC	46.6	38,178	509
SAS1569	WOODHAVEN COURT	LOCKE AVENUE	END	200	VC	46	37,686	502
SAS157	PULLEN AVENUE	ELM STREET	FRANCES STREET SOUTH	200	VC	86.9	71,194	949
SAS1570	WOODHAVEN COURT	LOCKE AVENUE	END	200	VC	91.4	74,880	998
SAS1571	EASEMENT	WOODHAVEN COURT	NORTHWOOD PLACE	200	VC	48.5	39,734	530
SAS1572	EASEMENT	WOODHAVEN COURT	NORTHWOOD PLACE	200	VC	46.9	38,423	512
SAS1573	NORTHWOOD PLACE	CONFEDERATION DRIVE	END	200	VC	9.1	7,455	99
SAS1574	NORTHWOOD PLACE	CONFEDERATION DRIVE	END	200	VC	85.6	70,129	935
SAS1575	NORTHWOOD PLACE	CONFEDERATION DRIVE	END	200	VC	48.8	39,980	533
SAS1576	LOCKE AVENUE	PINEHURST PLACE	ROSEMOUNT CRESCENT	200	VC	55.5	45,469	606
SAS1577	LOCKE AVENUE	PINEHURST PLACE	ROSEMOUNT CRESCENT	200	VC	55.2	45,223	603
SAS1578	LOCKE AVENUE	PINEHURST PLACE	ROSEMOUNT CRESCENT	200	VC	32	26,216	350
SAS1579	LOCKE AVENUE	PINEHURST PLACE	ROSEMOUNT CRESCENT	200	VC	38.1	31,214	416
SAS158	ELM STREET	MORRISON DRIVE	PULLEN AVENUE	450	VC	88.4	93,568	1,248
SAS1580	LOCKE AVENUE	PINEHURST PLACE	ROSEMOUNT CRESCENT	200	VC	37.5	30,722	410
SAS1581	ROSEMOUNT CRESCENT	LOCKE AVENUE	LOCKE AVENUE	200	VC	83.8	68,654	915
SAS1582	ROSEMOUNT CRESCENT	LOCKE AVENUE	LOCKE AVENUE	200	VC	82.9	67,917	906

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1583	ROSEMOUNT CRESCENT	LOCKE AVENUE	LOCKE AVENUE	200	VC	82.9	67,917	906
SAS1584	LOCKE AVENUE	PINEHURST PLACE	ROSEMOUNT CRESCENT	200	VC	46.3	37,932	506
SAS1585	ROSEMOUNT CRESCENT	LOCKE AVENUE	LOCKE AVENUE	200	VC	63.6	52,105	695
SAS1586	ROSEMOUNT CRESCENT	LOCKE AVENUE	LOCKE AVENUE	200	VC	69.2	56,693	756
SAS1587	LOCKE AVENUE	ROSEMOUNT CRESCENT	WOODHAVEN COURT	200	VC	47.2	38,669	516
SAS1588	LOCKE AVENUE	WOODHAVEN COURT	LAURIER ROAD	200	VC	83.5	68,408	912
SAS1589	LOCKE AVENUE	LAURIER ROAD	CONFEDERATION DRIVE	200	VC	37.8	30,968	413
SAS159	ELM STREET	HOLLAND AVENUE	MORRISON DRIVE	450	VC	88.4	93,568	1,248
SAS1590	LOCKE AVENUE	LAURIER ROAD	CONFEDERATION DRIVE	200	VC	59.1	48,418	646
SAS1591	LAURIER ROAD	LOCKE AVENUE	CONFEDERATION DRIVE	200	VC	33.8	27,691	369
SAS1592	LAURIER ROAD	LOCKE AVENUE	CONFEDERATION DRIVE	200	VC	84.4	69,146	922
SAS1593	LAURIER ROAD	LOCKE AVENUE	CONFEDERATION DRIVE	200	VC	84.7	69,391	925
SAS1594	CONFEDERATION DRIVE	SOUTH EDGEWARE ROAD	LAURIER ROAD	200	VC	74.7	61,199	816
SAS1595	HANDFORD PLACE	CONFEDERATION DRIVE	EAST END	200	VC	98.5	80,697	1,076
SAS1596	CONFEDERATION DRIVE	LAURIER ROAD	LOCKE AVENUE	200	VC	78.9	64,640	862
SAS1597	CONFEDERATION DRIVE	LAURIER ROAD	LOCKE AVENUE	200	VC	76.2	62,428	832
SAS1598	CONFEDERATION DRIVE	LOCKE AVENUE	NORTHWOOD PLACE	200	VC	87.8	71,931	959
SAS1599	CONFEDERATION DRIVE	NORTHWOOD PLACE	WARREN CRESCENT	200	VC	61	49,975	666
SAS16	PORTER PLACE	RAVEN AVENUE	NORTH END	200	AC	66.8	54,727	730
SAS160	HOLLAND AVENUE	ELM STREET	ALDBOROUGH AVENUE	200	VC	37.8	30,968	413
SAS1600	CONFEDERATION DRIVE	NORTHWOOD PLACE	WARREN CRESCENT	200	VC	11	9,012	120
SAS1601	PINEHURST PLACE	LOCKE AVENUE	END	200	VC	59.7	48,910	652
SAS1602	PINEHURST PLACE	LOCKE AVENUE	END	200	VC	18.6	15,238	203
SAS1603	PINEHURST PLACE	LOCKE AVENUE	END	200	VC	24.7	20,236	270
SAS1604	EASEMENT	WOODWORTH CRESCENT	PINEHURST PLACE	250	VC	38.1	35,771	477
SAS1605	EASEMENT	WOODWORTH CRESCENT	PINEHURST PLACE	250	VC	78.9	74,076	988
SAS1606	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	WOODWORTH CRESCENT	200	VC	25.6	20,973	280
SAS1607	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	WOODWORTH CRESCENT	200	VC	92.2	75,536	1,007
SAS1608	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	WOODWORTH CRESCENT	250	VC	93.6	87,877	1,172
SAS1609	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	WOODWORTH CRESCENT	250	VC	27.7	26,006	347
SAS161	HOLLAND AVENUE	ELM STREET	ALDBOROUGH AVENUE	200	VC	78	63,902	852
SAS1610	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	300	VC	40.7	40,645	542
SAS1612	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	300	VC	394.7	394,171	5,256
SAS1613	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	300	VC	32.5	32,456	433
SAS1614	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	300	VC	7.6	7,590	101
SAS1615	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	300	VC	105.9	105,758	1,410

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1616	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	300	VC	77	76,897	1,025
SAS162	HOLLAND AVENUE	ELM STREET	ALDBOROUGH AVENUE	200	VC	93.9	76,929	1,026
SAS1620	OPECHEE STREET	WAWA STREET	ROSS STREET	200	VC	121.7	99,704	1,329
SAS1623	SINCLAIR AVENUE	FAIRVIEW AVENUE	RIPLEY LANE	250	VC	65.5	61,495	820
SAS1625	HEMLOCK STREET	ROSS STREET	ELMINA STREET	250	VC	180.1	169,089	2,255
SAS1625	HEMLOCK STREET	ELMINA STREET	FIFTH AVENUE	250	VC	180.1	169,089	2,255
SAS1626	ELYSIAN STREET	ST. GEORGE STREET	WEST PEARL STREET	375	VC	124.4	127,953	1,706
SAS1627	MANITOBA STREET	TALBOT STREET	CELESTINE STREET	200	VC	72.4	59,314	791
SAS1628	TALBOT STREET	JOHN STREET	ROSS STREET	900	Brick	72.7	111,730	1,490
SAS1629	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	250	CO	6.1	5,727	76
SAS163	HOLLAND AVENUE	ELM STREET	ALDBOROUGH AVENUE	200	VC	79.9	65,459	873
SAS1630	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	250	VC	93.6	87,877	1,172
SAS1632	WILSON AVENUE	REGENT STREET	CHESTER STREET	200	PVC	71.9	58,905	785
SAS1634	MANITOBA STREET	TALBOT STREET	CELESTINE STREET	200	VC	65	53,252	710
SAS1635	MANITOBA STREET	TALBOT STREET	CELESTINE STREET	200	VC	18.3	14,992	200
SAS1636	MALAKOFF STREET	ALMA STREET	BALACLAVA STREET	300	VC	64	63,914	852
SAS1637	PARK AVENUE	CHESTNUT STREET	MARY BUCKE STREET	250	VC	100	93,886	1,252
SAS164	ELM STREET	FIRST AVENUE	HOLLAND AVENUE	450	PVC	96.9	102,565	1,368
SAS165	ELM STREET	FIRST AVENUE	HOLLAND AVENUE	450	VC	89.9	95,156	1,269
SAS1653	THIRD AVENUE	WELLINGTON STREET	ERIE STREET	200	VC	93	76,191	1,016
SAS1654	WELLINGTON STREET	PRINCESS AVENUE	MOORE STREET	375	VC	76.2	78,376	1,045
SAS1658	SOUTHWICK STREET	TALBOT STREET	CENTRE STREET	250	VC	21.3	19,998	267
SAS1659	CAVANAUGH DRIVE	CHESTNUT STREET	NORTH END	200	PVC	70	57,348	765
SAS166	THOMPSON AVENUE	FIRST AVENUE	GLANWORTH AVENUE	200	VC	43.6	35,720	476
SAS1660	LAURA AVENUE	DAUGHARTY DRIVE	EAST END	200	CO	25	20,482	273
SAS1661	PARK AVENUE	ERIE STREET	FOREST AVENUE	250	VC	47.9	44,971	600
SAS1662	LOCUST STREET	FIRST AVENUE	GREGORY PLACE	200	VC	68.6	56,201	749
SAS1663	LOCUST STREET	FIRST AVENUE	GREGORY PLACE	200	VC	74.1	60,707	809
SAS1664	LOCUST STREET	WEST OF FIRST AVENUE	FIRST AVENUE	200	VC	27.4	22,448	299
SAS1665	LOCUST STREET	WEST OF FIRST AVENUE	FIRST AVENUE	250	VC	86	80,742	1,077
SAS1666	RYERSON PLACE	PHILIP STREET	EAST END	200	VC	7.6	6,226	83
SAS1667	ST. JOSEPH STREET	HIGH STREET	MORRISON DRIVE	300	VC	10.1	10,086	134
SAS1669	HIGHVIEW DRIVE	CHESTNUT STREET	FOREST AVENUE	200	VC	14.9	12,207	163
SAS167	THOMPSON AVENUE	FIRST AVENUE	GLANWORTH AVENUE	200	VC	52.1	42,683	569
SAS1670	STOKES ROAD	BONNIE PLACE	CHESTNUT STREET	250	AC	39.9	37,461	499
SAS1671	STOKES ROAD	BONNIE PLACE	BONNIE PLACE	250	AC	43.1	40,465	540
SAS1672	EASEMENT	STOKES ROAD	RICE ROAD	200	PVC	83.8	68,654	915
SAS1673	HITCH CRESCENT	RICE ROAD	RICE ROAD	200	PVC	50	40,963	546
SAS1674	HITCH CRESCENT	RICE ROAD	RICE ROAD	200	PVC	97.9	80,206	1,069
SAS1675	HITCH CRESCENT	RICE ROAD	RICE ROAD	200	PVC	80.4	65,869	878
SAS1676	RICE ROAD	HITCH CRESCENT	HITCH CRESCENT	200	PVC	54.1	44,322	591
SAS1677	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	200	AC	9.1	7,455	99
SAS1678	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	200	AC	10.4	8,520	114
SAS168	GLANWORTH AVENUE	ASHTON PLACE	THOMPSON AVENUE	375	VC	81.7	84,033	1,120
SAS1680	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	300	PVC	91	90,878	1,212
SAS1681	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	300	PVC	73.6	73,501	980
SAS1682	HIGHVIEW DRIVE	PALMER COURT	MANOR ROAD	300	PVC	24.9	24,867	332

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1683	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	250	PVC	90	84,497	1,127
SAS1684	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	250	PVC	100	93,886	1,252
SAS1685	SUNSET DRIVE	GLENBANNER STREET	WILSON AVENUE	200	DI	64	52,433	699
SAS1686	SUNSET DRIVE	GLENBANNER STREET	WILSON AVENUE	200	DI	57.9	47,435	632
SAS1687	SUNSET DRIVE	GLENBANNER STREET	WILSON AVENUE	200	VC	13.1	10,732	143
SAS1688	SUNSET DRIVE	GLENBANNER STREET	WILSON AVENUE	450	DI	121.9	129,026	1,720
SAS1689	SUNSET DRIVE	GLENBANNER STREET	WILSON AVENUE	450	DI	234.8	248,526	3,314
SAS169	ASHTON PLACE	GLANWORTH AVENUE	NORTH END	200	VC	46.9	38,423	512
SAS1690	GLANWORTH AVENUE	THOMPSON AVENUE	ALDBOROUGH AVENUE	375	VC	32	32,914	439
SAS1691	RAVEN AVENUE	DAVID DRIVE	DYER STREET	200	AC	50	40,963	546
SAS1693	RAVEN AVENUE	PENHALE AVENUE	NOBLE LANE	200	AC	31.7	25,971	346
SAS17	RAVEN AVENUE	LAWRENCE AVENUE	PORTER PLACE	200	AC	92	75,372	1,005
SAS170	GLANWORTH AVENUE	FIRST AVENUE	ASHTON PLACE	375	VC	70.5	72,513	967
SAS171	GLANWORTH AVENUE	FIRST AVENUE	ASHTON PLACE	375	VC	86.3	88,765	1,184
SAS172	LINCOLN COURT	FIRST AVENUE	WEST END	250	VC	50.9	47,788	637
SAS1720	NULL	NULL	NULL	200	VC	18.3	14,992	200
SAS1723	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	59.4	59,320	791
SAS1724	EASEMENT	HIAWATHA STREET	ATHLETIC PARK	300	PVC	23.5	23,469	313
SAS1725	EASEMENT	EAST STREET	ATHLETIC PARK	200	VC	18.4	15,074	201
SAS1727	EASEMENT	ST. GEORGE STREET	ATHLETIC PARK	300	CO	3.7	3,695	49
SAS1728	EASEMENT	ST. GEORGE STREET	ATHLETIC PARK	300	CO	6.4	6,391	85
SAS1729	EASEMENT	ST. GEORGE STREET	ATHLETIC PARK	300	VC	4.5	4,494	60
SAS173	LINCOLN COURT	FIRST AVENUE	WEST END	250	VC	60.7	56,989	760
SAS1732	EASEMENT	ST. GEORGE STREET	ATHLETIC PARK	300	AC	100	99,866	1,332
SAS174	FIRST AVENUE	GLANWORTH AVENUE	LINCOLN COURT	200	VC	32.9	26,954	359
SAS175	FIRST AVENUE	THOMPSON AVENUE	GLANWORTH AVENUE	375	VC	74.1	76,216	1,016
SAS176	FIRST AVENUE	THOMPSON AVENUE	GLANWORTH AVENUE	375	VC	73.2	75,291	1,004
SAS177	THOMPSON AVENUE	FIRST AVENUE	GLANWORTH AVENUE	200	VC	85.6	70,129	935
SAS178	THOMPSON AVENUE	FIRST AVENUE	GLANWORTH AVENUE	200	VC	88.1	72,177	962
SAS179	FIRST AVENUE	MANDEVILLE ROAD	THOMPSON AVENUE	375	VC	61.9	63,668	849
SAS18	RAVEN AVENUE	DYER STREET	LAWRENCE AVENUE	200	AC	86	70,456	939
SAS180	FIRST AVENUE	ELM STREET	MANDEVILLE ROAD	375	VC	121.9	125,381	1,672
SAS1805	JOHN STREET	TALBOT STREET	KAINS STREET	250	VC	67.1	62,998	840
SAS1806	JOHN STREET	KAINS STREET	TALBOT STREET	250	VC	75.3	70,696	943
SAS1807	FLORA STREET	TALBOT STREET	KAINS STREET	250	CO	7.6	7,135	95
SAS181	FIRST AVENUE	ELM STREET	MANDEVILLE ROAD	375	VC	125.6	129,187	1,722
SAS1810	MONDAMIN STREET	EAGLE STREET	SCOTT STREET	200	VC	53.1	43,503	580
SAS1812	EAGLE STREET	MONDAMIN STREET	ST. CATHARINE STREET	250	VC	57.3	53,797	717
SAS1815	EASEMENT	HIAWATHA STREET	ST. CATHARINE STREET	300	VC	155.4	155,192	2,069
SAS1816	NORTH OMEMEE STREET	HIAWATHA STREET	END	300	VC	13.7	13,682	182
SAS1817	NORTH OMEMEE STREET	HIAWATHA STREET	END	300	VC	201.2	200,930	2,679
SAS1819	EASEMENT	ST. CATHARINE STREET	STATION STREET	300	VC	33.1	33,056	441
SAS182	FIRST AVENUE	ELM STREET	MANDEVILLE ROAD	375	VC	22.9	23,554	314
SAS1823	MANITOBA STREET	CELESTINE STREET	KAINS STREET	200	VC	14.4	11,797	157
SAS1824	KAINS STREET	MANITOBA STREET	ALMA STREET	450	VC	14.3	15,136	202
SAS1825	KAINS STREET	MANITOBA STREET	ALMA STREET	450	PVC	11.5	12,172	162

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1826	BALACLAVA STREET	REDAN STREET	NOLAN STREET	200	PVC	72.5	59,396	792
SAS1827	NOLAN STREET	BALACLAVA STREET	INKERMAN STREET	250	PVC	63.8	59,899	799
SAS1828	NOLAN STREET	ALMA STREET	BALACLAVA STREET	250	PVC	62	58,209	776
SAS183	RAPELJE STREET	ELM STREET	MANDEVILLE ROAD	200	VC	79.2	64,885	865
SAS1832	BALACLAVA STREET	NOLAN STREET	EDWARD STREET	200	PVC	73	59,806	797
SAS1833	BALACLAVA STREET	NOLAN STREET	EDWARD STREET	200	PVC	75	61,445	819
SAS1835	BALACLAVA STREET	NOLAN STREET	EDWARD STREET	200	PVC	25.8	21,137	282
SAS1837	INKERMAN STREET	NOLAN STREET	EDWARD STREET	200	VC	100	81,926	1,092
SAS1838	BARWICK STREET	MANITOBA STREET	HUGHES STREET	200	CO	8	6,554	87
SAS1839	HUGHES STREET	BROCK STREET	WOLFE STREET	200	CO	14.6	11,961	159
SAS184	RAPELJE STREET	ELM STREET	MANDEVILLE ROAD	200	VC	79.2	64,885	865
SAS1840	HUGHES STREET	BROCK STREET	WOLFE STREET	200	CO	29.5	24,168	322
SAS1841	HUGHES STREET	BROCK STREET	WOLFE STREET	200	CO	30.5	24,987	333
SAS1842	HIGHWAY #3 BYPASS	HUGHES STREET	ALMA STREET	200	CO	91.4	74,880	998
SAS1843	HIGHWAY #3 BYPASS	HUGHES STREET	ALMA STREET	200	CO	91.4	74,880	998
SAS1844	HUGHES STREET	BROCK STREET	WOLFE STREET	250	CO	9.1	8,544	114
SAS1845	HUGHES STREET	BROCK STREET	WOLFE STREET	150	PVC	101.7	83,319	1,111
SAS1846	BALACLAVA STREET	EDWARD STREET	HAMMOND STREET	200	CO	15.2	12,453	166
SAS1847	HIGHWAY #3 BYPASS	ALMA STREET	BALACLAVA STREET	200	CO	15.2	12,453	166
SAS1848	HIGHWAY #3 BYPASS	ALMA STREET	BALACLAVA STREET	200	CO	91.4	74,880	998
SAS1849	INKERMAN STREET	PATRICIA STREET	JOHNSON PLACE	200	AC	50.3	41,209	549
SAS185	RAPELJE STREET	ELM STREET	MANDEVILLE ROAD	200	VC	79.2	64,885	865
SAS1850	SOUTH EDGEWARE ROAD	WATERWORKS PARK	BALACLAVA STREET	300	VC	38.1	38,049	507
SAS1851	SOUTH EDGEWARE ROAD	WATERWORKS PARK	BALACLAVA STREET	300	VC	52.7	52,629	702
SAS1854	PATRICIA STREET	WOODWORTH AVENUE	MCLACHLIN PLACE	200	VC	18.3	14,992	200
SAS1855	HIGHWAY #3 BYPASS	FIRST AVENUE	FLEX-O-LITE ROAD	525	CO	62.5	69,891	932
SAS1856	HIGHWAY #3 BYPASS	FIRST AVENUE	FLEX-O-LITE ROAD	525	CO	68	76,042	1,014
SAS1857	HIGHWAY #3 BYPASS	JOYCE STREET	FIRST AVENUE	525	CO	41.8	46,743	623
SAS1858	HIGHWAY #3 BYPASS	WOODWORTH AVENUE	JOYCE STREET	525	CO	106.7	119,318	1,591
SAS1859	PATRICIA STREET	INKERMAN STREET	WOODWORTH AVENUE	200	VC	100.6	82,418	1,099
SAS186	MANDEVILLE ROAD	RAPELJE STREET	FIRST AVENUE	200	VC	106.7	87,415	1,166
SAS1860	GAYLORD ROAD	EDWARD STREET	NORTH END	375	VC	68.6	70,559	941
SAS1861	GAYLORD ROAD	EDWARD STREET	NORTH END	375	VC	61	62,742	837
SAS1864	CONFEDERATION DRIVE	WARREN CRESCENT	AVON ROAD	400	AC	38.1	40,327	538
SAS1865	CONFEDERATION DRIVE	LAKEVIEW CIRCLE	LAKEVIEW CIRCLE	400	AC	66.8	70,705	943
SAS1866	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	200	VC	67.1	54,972	733
SAS1870	METCALFE STREET	TALBOT STREET	CENTRE STREET	200	VC	56.6	46,370	618
SAS1875	FLEX-O-LITE ROAD	SOUTH EDGEWARE ROAD	DUCKWORTH AVENUE	300	VC	106.7	106,557	1,421
SAS1876	EDWARD STREET	WOODWORTH AVENUE	FIRST AVENUE	450	VC	12.3	13,019	174
SAS1877	WOODWORTH AVENUE	EDWARD STREET	DANIEL STREET	375	VC	38.1	39,188	523
SAS1879	SOUTH EDGEWARE ROAD	HARWILL ROAD	PROGRESS DRIVE	300	VC	74.8	74,700	996
SAS1881	FOREST AVENUE	FAIRVIEW AVENUE	ASPEN AVENUE	250	VC	65.2	61,214	816
SAS1884	BALACLAVA STREET	EDWARD STREET	HAMMOND STREET	200	CO	61.5	50,384	672

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1885	REDAN STREET	ARTHUR AVENUE	ALEXANDRIA AVENUE	200	VC	112.8	92,413	1,232
SAS1888	CROATIA COURT	HIGHVIEW DRIVE	EAST END	200	VC	70.4	57,676	769
SAS1889	POL COURT	PADDON STREET	SOUTH END	200	PVC	87	71,276	950
SAS1890	FAIRVIEW AVENUE	STEELE STREET	WELLINGTON STREET	200	AC	16.5	13,518	180
SAS1893	SOUTH EDGEWARE ROAD	HARWILL ROAD	PROGRESS DRIVE	300	CO	15.5	15,479	206
SAS1895	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1050	CO	153	285,461	3,806
SAS1897	ELM STREET	PARKSIDE DRIVE	PINAFORE PARK ENTRANCE	200	VC	24.2	19,826	264
SAS190	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	200	AC	45.7	37,440	499
SAS1904	ERIE STREET	FIFTH AVENUE	FOURTH AVENUE	300	VC	86.7	86,584	1,154
SAS191	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	200	AC	68.6	56,201	749
SAS1918	NULL	NULL	NULL	200	VC	102.5	83,974	1,120
SAS1919	NULL	NULL	NULL	200	VC	38.4	31,460	419
SAS192	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	200	AC	68.6	56,201	749
SAS1922	RAVINE	ELGIN STREET	RAILROAD TRACKS	900	CO	163.5	251,277	3,350
SAS1923	TALBOT STREET	ROSS STREET	HORTON STREET	900	Brick	63	96,822	1,291
SAS1924	TALBOT STREET	MOORE STREET	JOHN STREET	900	Brick	72.5	111,422	1,486
SAS1925	TALBOT STREET	HORTON STREET	MANITOBA STREET	900	Brick	50	76,843	1,025
SAS1927	PARK AVENUE	FOREST AVENUE	CHESTNUT STREET	250	VC	39	36,616	488
SAS1928	FIRST AVENUE	LINCOLN COURT	SOUTH END	200	VC	11	9,012	120
SAS1929	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1050	CO	25.5	47,577	634
SAS1932	ELM STREET	FIRST AVENUE	HOLLAND AVENUE	450	VC	38	40,221	536
SAS1933	ELM STREET	MORRISON DRIVE	PULLEN AVENUE	450	PVC	90.6	95,896	1,279
SAS1934	ELM STREET	HOLLAND AVENUE	MORRISON DRIVE	450	PVC	120	127,015	1,694
SAS1934	ELM STREET	FIRST AVENUE	HOLLAND AVENUE	450	PVC	120	127,015	1,694
SAS1935	ELM STREET	FIRST AVENUE	HOLLAND AVENUE	450	PVC	2.5	2,646	35
SAS1936	EASEMENT	COSTELLO COURT	ELM STREET	675	PVC	8.6	11,674	156
SAS1938	FIFTH AVENUE	FOREST AVENUE	MYRTLE STREET	200	VC	49.9	40,881	545
SAS1939	NULL	NULL	NULL	200	VC	12.9	10,568	141
SAS194	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	150	AC	251.5	206,044	2,747
SAS1941	SUNSET DRIVE	WILSON AVENUE	SHAW VALLEY DRIVE	450	DI	132.9	140,669	1,876
SAS1942	SUNSET DRIVE	GLENBANNER STREET	WILSON AVENUE	450	DI	139.3	147,443	1,966
SAS1943	SUNSET DRIVE	GLENBANNER STREET	WILSON AVENUE	200	DI	22.5	18,433	246
SAS1946	SUNSET DRIVE	GLENBANNER STREET	ELM STREET	450	DI	15.2	16,089	215
SAS195	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	200	AC	61.7	50,548	674
SAS196	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	200	AC	50.4	41,291	551
SAS1962	TALBOT STREET	BALACLAVA STREET	INKERMAN STREET	200	VC	47.2	38,669	516
SAS1963	NULL	NULL	NULL	200	VC	26.1	21,383	285
SAS197	EASEMENT	BELL AVENUE	PINAFORE PARK	200	VC	52.1	42,683	569
SAS1970	LEILA STREET	OLIVER STREET	PALM STREET	200	VC	58.6	48,009	640
SAS1973	QUEEN STREET	ST. ANNE'S PLACE	WELLINGTON STREET	250	VC	12.1	11,360	151
SAS1979	MARGARET STREET	STANLEY STREET	VICTORIA STREET	200	VC	3.9	3,195	43
SAS198	EASEMENT	BELL AVENUE	PINAFORE PARK	200	VC	100.9	82,663	1,102
SAS1980	MARGARET STREET	VICTORIA STREET	PRINCE ALBERT STREET	200	VC	52.7	43,175	576
SAS1985	THIRD AVENUE	ERIE STREET	FOREST AVENUE	200	VC	46	37,686	502
SAS1985	THIRD AVENUE	FOREST AVENUE	MYRTLE STREET	200	VC	46	37,686	502
SAS1986	FIFTH AVENUE	LOCUST STREET	CHESTNUT STREET	200	VC	46.8	38,341	511
SAS1989	PRINCESS AVENUE	CENTRE STREET	TALBOT STREET	450	VC	67.2	71,129	948

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS199	EASEMENT	BELL AVENUE	PINAFORE PARK	200	VC	43.6	35,720	476
SAS1991	GAYLORD ROAD	EDWARD STREET	NORTH END	300	VC	69.3	69,207	923
SAS1992	ELM STREET	PULLEN AVENUE	PARK AVENUE	450	PVC	94.7	100,236	1,336
SAS1993	ELM STREET	PARK AVENUE	YOUNG STREET	450	PVC	94.2	99,707	1,329
SAS1994	ELM STREET	YOUNG STREET	RHONDA COURT	450	PVC	95	100,554	1,341
SAS1995	ELM STREET	YOUNG STREET	RHONDA COURT	450	PVC	26.3	27,837	371
SAS1996	ELM STREET	PULLEN AVENUE	PARK AVENUE	400	PVC	22.79	24,122	322
SAS1997	FAIRVIEW AVENUE	STEELE STREET	WELLINGTON STREET	200	PVC	17.6	14,419	192
SAS1998	EASEMENT	FAIRVIEW AVENUE	RICKWOOD PLACE	200	PVC	87.9	72,013	960
SAS1999	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	200	PVC	27.2	22,284	297
SAS20	RAVEN AVENUE	DAVID DRIVE	DYER STREET	200	AC	59.6	48,828	651
SAS200	EASEMENT	BELL AVENUE	PINAFORE PARK	200	VC	65.5	53,662	715
SAS2000	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	200	PVC	73.9	60,543	807
SAS2001	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	200	PVC	70.5	57,758	770
SAS2002	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	200	PVC	58.9	48,254	643
SAS2003	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	200	PVC	61	49,975	666
SAS2004	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	200	PVC	57.1	46,780	624
SAS2005	RICE ROAD	HITCH CRESCENT	MANOR ROAD	200	PVC	70.8	58,004	773
SAS2006	MANOR ROAD	RICE ROAD	WELLINGTON STREET	200	PVC	88.3	72,341	965
SAS2007	MANOR ROAD	RICE ROAD	WELLINGTON STREET	200	PVC	90.1	73,815	984
SAS2008	MANOR ROAD	RICE ROAD	WELLINGTON STREET	200	PVC	50.9	41,700	556
SAS2009	EDWARD STREET	ALMA STREET	BALACLAVA STREET	200	PVC	33.6	27,527	367
SAS201	EASEMENT	BELL AVENUE	PINAFORE PARK	200	VC	79.2	64,885	865
SAS2010	EDWARD STREET	ALMA STREET	BALACLAVA STREET	200	PVC	96.8	79,304	1,057
SAS2011	RAVINE	CHURCHILL CRESCENT	FIRST AVENUE	1050	CO	9.5	17,725	236
SAS2012	RAVINE	CHURCHILL CRESCENT	FIRST AVENUE	1050	CO	12.6	23,509	313
SAS2013	EASEMENT	COSTELLO COURT	ELM STREET	750	CO	77.5	105,203	1,403
SAS2014	EASEMENT	COSTELLO COURT	ELM STREET	750	CO	45.4	61,629	822
SAS2015	EASEMENT	COSTELLO COURT	ELM STREET	750	CO	35.8	48,597	648
SAS2016	EASEMENT	COSTELLO COURT	ELM STREET	750	CO	53.3	72,353	965
SAS2017	EASEMENT	COSTELLO COURT	ELM STREET	750	CO	38.2	51,855	691
SAS2018	EASEMENT	COSTELLO COURT	ELM STREET	750	CO	17.8	24,163	322
SAS2019	COSTELLO COURT	ST. JOSEPH STREET	SOUTH END	750	CO	45	61,086	814
SAS2020	EASEMENT	DUNKIRK DRIVE	MONTGOMERY ROAD	300	PVC	20.4	20,373	272
SAS2021	EASEMENT	DUNKIRK DRIVE	MONTGOMERY ROAD	200	PVC	19.2	15,730	210
SAS2022	HORTON STREET	TALBOT STREET	CELESTINE STREET	250	PVC	78.2	73,419	979
SAS2023	HORTON STREET	TALBOT STREET	CELESTINE STREET	250	PVC	69.3	65,063	868
SAS2024	HORTON STREET	TALBOT STREET	CELESTINE STREET	250	PVC	20.49	19,237	256
SAS2025	FAIRVIEW AVENUE	FOREST AVENUE	CHESTNUT STREET	200	PVC	54.6	44,732	596
SAS2026	CHESTNUT STREET	CAVANAUGH DRIVE	FAIRVIEW AVENUE	250	PVC	46.5	43,657	582
SAS2027	ALMA STREET	NOLAN STREET	EDWARD STREET	250	PVC	108	101,397	1,352
SAS2028	TALBOT STREET	MONDAMIN STREET	PRINCESS AVENUE	900	Brick	105.8	162,600	2,168
SAS2028	TALBOT STREET	PRINCESS AVENUE	MOORE STREET	900	Brick	105.8	162,600	2,168
SAS2029	DEVONSHIRE PLACE	BALFOUR STREET	CHESTER STREET	375	VC	80.5	82,799	1,104
SAS2030	ERIE STREET	SECOND AVENUE	FIRST AVENUE	200	PVC	19.2	15,730	210
SAS2031	ERIE STREET	SECOND AVENUE	FIRST AVENUE	200	PVC	55.8	45,715	610
SAS2032	FOREST AVENUE	SECOND AVENUE	FIRST AVENUE	200	PVC	39.8	32,607	435
SAS2033	FOREST AVENUE	SECOND AVENUE	FIRST AVENUE	200	PVC	15.3	12,535	167

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2034	WILLOW STREET	CHESTER STREET	SOUTH END	200	PVC	20.8	17,041	227
SAS2035	YARWOOD STREET	KAINS STREET	MARIAM STREET	300	VC	77.3	77,196	1,029
SAS2036	YARWOOD STREET	KAINS STREET	MARIAM STREET	300	VC	39.9	39,847	531
SAS2037	YARWOOD STREET	KAINS STREET	MARIAM STREET	300	VC	48.6	48,535	647
SAS2038	YARWOOD STREET	KAINS STREET	MARIAM STREET	300	VC	73.2	73,102	975
SAS2039	NULL	NULL	NULL	200	PVC	17.73	14,525	194
SAS2040	NULL	NULL	NULL	200	PVC	61.2	50,139	669
SAS2041	NULL	NULL	NULL	200	PVC	41.3	33,835	451
SAS2042	MARIAM STREET	WEST END	YARWOOD STREET	200	PVC	25.3	20,727	276
SAS2045	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	900	VC	10.7	16,444	219
SAS2046	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	900	VC	14.3	21,977	293
SAS2047	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	200	PVC	1.2	983	13
SAS2048	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	200	PVC	16.94	13,878	185
SAS2049	MANOR ROAD	HIGHVIEW DRIVE	GOLDING PLACE	200	PVC	92.9	76,109	1,015
SAS2050	MANOR ROAD	TALBOT STREET	GOLDING PLACE	200	PVC	70.1	57,430	766
SAS2051	GOLDING PLACE	MANOR ROAD	EAST END	200	PVC	64	52,433	699
SAS2052	WILSON AVENUE	ADA STREET	ELM STREET	200	PVC	93.4	76,519	1,020
SAS2053	WILSON AVENUE	CHESTER STREET	ADA STREET	200	PVC	76.1	62,346	831
SAS2057	ALMA STREET	NOLAN STREET	EDWARD STREET	250	PVC	107.7	101,115	1,348
SAS2058	ALMA STREET	NOLAN STREET	EDWARD STREET	250	PVC	3	2,817	38
SAS2059	ALMA STREET	REDAN STREET	NOLAN STREET	300	PVC	35	34,953	466
SAS206	GLENBANNER STREET	SUNSET DRIVE	WILSON AVENUE	200	PVC	112.5	92,167	1,229
SAS2060	ALMA STREET	REDAN STREET	NOLAN STREET	300	PVC	3	2,996	40
SAS2061	ALMA STREET	REDAN STREET	NOLAN STREET	300	PVC	60	59,920	799
SAS2064	DANIEL STREET	WOODWORTH AVENUE	FRISCH STREET	200	VC	98.7	80,861	1,078
SAS2065	DANIEL STREET	WOODWORTH AVENUE	FRISCH STREET	200	VC	11.3	9,258	123
SAS2066	WOODWORTH AVENUE	DANIEL STREET	JOYCE STREET	375	CO	69.33	71,310	951
SAS2067	ELYSIAN STREET	EAST PEARL STREET	EAST STREET	300	VC	51.8	51,731	690
SAS2069	MCGREGOR COURT	END	AVON ROAD	200	PVC	84	68,818	918
SAS207	WILSON AVENUE	GLENBANNER STREET	SUNSET DRIVE	300	PVC	89	88,881	1,185
SAS2070	MCGREGOR COURT	END	AVON ROAD	200	PVC	90.5	74,143	989
SAS2071	MCGREGOR COURT	END	AVON ROAD	200	PVC	89.5	73,324	978
SAS2072	MCGREGOR COURT	END	AVON ROAD	200	PVC	35	28,674	382
SAS2073	AVON ROAD	CONFEDERATION DRIVE	MCGREGOR COURT	200	PVC	24.5	20,072	268
SAS2074	AVON ROAD	CONFEDERATION DRIVE	MCGREGOR COURT	200	PVC	53.5	43,830	584
SAS2075	MCGREGOR COURT	AVON ROAD	BURWELL ROAD	200	PVC	37	30,313	404
SAS2076	MCGREGOR COURT	AVON ROAD	BURWELL ROAD	200	PVC	74	60,625	808
SAS2078	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	200	PVC	59.5	48,746	650
SAS2079	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	600	PVC	30	34,445	459
SAS208	WILSON AVENUE	GLENBANNER STREET	SUNSET DRIVE	300	PVC	86.9	86,784	1,157
SAS2081	BURWELL ROAD	HARWILL ROAD	EDWARD STREET	300	CO	38	37,949	506
SAS2082	BURWELL ROAD	HARWILL ROAD	EDWARD STREET	300	CO	41	40,945	546
SAS2084	NULL	NULL	NULL	600	PVC	14.27	16,384	218
SAS2085	BURWELL ROAD	SANDERS COURT	SILVER STREET	200	PVC	845.63	692,791	9,237
SAS2085	BURWELL ROAD	BENNETT PLACE	SOUTH EDGEWARE ROAD	200	PVC	845.63	692,791	9,237
SAS2085	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	200	PVC	845.63	692,791	9,237
SAS2085	BURWELL ROAD	SILVER STREET	BENNETT PLACE	200	PVC	845.63	692,791	9,237
SAS2085	BURWELL ROAD	SANDERS COURT	MCGREGOR COURT	200	PVC	845.63	692,791	9,237

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2086	BURWELL ROAD	SOUTH EDGEWARE ROAD	HARWILL ROAD	200	PVC	357.5	292,885	3,905
SAS2088	THORMAN TERRACE	WRIGHT CRESCENT	BURWELL ROAD	250	PVC	91	85,436	1,139
SAS2089	THORMAN TERRACE	WRIGHT CRESCENT	BURWELL ROAD	250	PVC	42	39,432	526
SAS209	WILSON AVENUE	ELM STREET	GLENBANNER STREET	300	PVC	100.6	100,465	1,340
SAS2090	THORMAN TERRACE	WRIGHT CRESCENT	BURWELL ROAD	250	PVC	74.5	69,945	933
SAS2091	THORMAN TERRACE	WRIGHT CRESCENT	END	250	PVC	70	65,720	876
SAS2092	WRIGHT CRESCENT	THORMAN TERRACE	DONKER DRIVE	200	PVC	54	44,240	590
SAS2093	WRIGHT CRESCENT	THORMAN TERRACE	DONKER DRIVE	200	PVC	92.5	75,782	1,010
SAS2094	WRIGHT CRESCENT	THORMAN TERRACE	DONKER DRIVE	200	PVC	76.5	62,673	836
SAS2095	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	200	PVC	74.5	61,035	814
SAS2096	DONKER DRIVE	END	WRIGHT CRESCENT	200	PVC	73.7	60,379	805
SAS2097	DONKER DRIVE	END	WRIGHT CRESCENT	200	PVC	92	75,372	1,005
SAS2099	NELSON STREET	UKRANIAN STREET	REDAN STREET	200	VC	13.7	11,224	150
SAS21	DYER STREET	CALDWELL STREET	RAVEN AVENUE	200	AC	54.6	44,732	596
SAS210	MANDEVILLE ROAD	WOOD STREET	RAPELJE STREET	200	VC	52.7	43,175	576
SAS2101	CURTIS STREET	HIAWATHA STREET	MONDAMIN STREET	250	VC	72.07	67,664	902
SAS2102	CURTIS STREET	MONDAMIN STREET	ST. CATHARINE STREET	250	VC	51.8	48,633	648
SAS2103	CURTIS STREET	MONDAMIN STREET	ST. CATHARINE STREET	250	VC	53.3	50,041	667
SAS2105	EASEMENT	EAST STREET	ATHLETIC PARK	200	VC	131	107,323	1,431
SAS211	MANDEVILLE ROAD	HEPBURN AVENUE	WOOD STREET	200	VC	68.9	56,447	753
SAS2110	OMEMEE STREET	HIAWATHA STREET	WEST END	200	VC	79.2	64,885	865
SAS2111	OMEMEE STREET	HIAWATHA STREET	WEST END	200	VC	60.9	49,893	665
SAS2113	OWAISSA STREET	HIAWATHA STREET	WEST END	200	VC	97.5	79,878	1,065
SAS2119	ARTHUR AVENUE	TALBOT STREET	MALAKOFF STREET	250	VC	107	100,458	1,339
SAS212	MANDEVILLE ROAD	HEPBURN AVENUE	WOOD STREET	200	VC	93.9	76,929	1,026
SAS2121	FIRST AVENUE	SIMCOE STREET	ELM STREET	450	VC	158	167,237	2,230
SAS2121	FIRST AVENUE	ENGLEWOOD STREET	SIMCOE STREET	450	VC	158	167,237	2,230
SAS2122	ELGIN STREET	WELLINGTON STREET	GLADSTONE AVENUE	900	VC	2.5	3,842	51
SAS2123	ELGIN STREET	WELLINGTON STREET	GLADSTONE AVENUE	900	VC	88.9	136,627	1,822
SAS2124	ELGIN STREET	TALBOT STREET	CENTRE STREET	900	Brick	128	196,718	2,623
SAS2125	ELGIN STREET	CENTRE STREET	ST. ANNE'S PLACE	900	Brick	24.4	37,499	500
SAS2126	CENTRE STREET	METCALFE STREET	ELGIN STREET	200	VC	13.25	10,855	145
SAS2127	MCGREGOR COURT	END	AVON ROAD	200	PVC	32	26,216	350
SAS2128	THORMAN TERRACE	WRIGHT CRESCENT	BURWELL ROAD	250	PVC	87.4	82,056	1,094
SAS2129	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	200	PVC	51	41,782	557
SAS213	MANDEVILLE ROAD	HEPBURN AVENUE	WOOD STREET	200	VC	82.9	67,917	906
SAS2130	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	600	PVC	32	36,741	490
SAS2131	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	600	PVC	23	26,408	352
SAS2132	DRAKE STREET	ISABEL STREET	METCALFE STREET	200	PVC	77.5	63,493	847
SAS2133	ISABEL STREET	DRAKE STREET	VICTORIA STREET	200	PVC	21.16	17,336	231
SAS2139	WILLIAM STREET	ST. ANNE'S PLACE	STANLEY STREET	300	Brick	126.5	126,330	1,684
SAS214	MANDEVILLE ROAD	HEPBURN AVENUE	WOOD STREET	200	VC	82.6	67,671	902
SAS2142	MITCHELL STREET	SOUTHWICK STREET	WHITE STREET	200	VC	91.4	74,880	998
SAS2147	WILLIAM STREET	CENTRE STREET	ST. ANNE'S PLACE	200	VC	12.28	10,061	134
SAS2148	WILLIAM STREET	CENTRE STREET	ST. ANNE'S PLACE	200	VC	12.24	10,028	134
SAS215	HEPBURN AVENUE	GLIDDON AVENUE	MANDEVILLE ROAD	200	VC	110.6	90,610	1,208
SAS2152	MONDAMIN STREET	EAGLE STREET	OWAISSA STREET	150	VC	27.4	22,448	299
SAS2153	EAGLE STREET	MONDAMIN STREET	ST. CATHARINE STREET	250	Brick	22.7	21,312	284

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2157	WILLIAM STREET	CENTRE STREET	ST. ANNE'S PLACE	200	VC	19	15,566	208
SAS216	HEPBURN AVENUE	ELM STREET	GLIDDON AVENUE	200	VC	86.3	70,702	943
SAS2162	ISABEL STREET	VICTORIA STREET	PRINCE ALBERT STREET	250	VC	91.4	85,812	1,144
SAS2163	ISABEL STREET	VICTORIA STREET	PRINCE ALBERT STREET	250	VC	70.1	65,814	878
SAS2164	ISABEL STREET	VICTORIA STREET	PRINCE ALBERT STREET	250	VC	6	5,633	75
SAS2165	ISABEL STREET HILLSIDE	PRINCE ALBERT STREET	SOUTH END	250	VC	30.4	28,541	381
SAS2167	HINCKS STREET	GLADSTONE AVENUE	ROSEBERY PLACE	200	VC	54.8	44,895	599
SAS2168	HINCKS STREET	GLADSTONE AVENUE	ROSEBERY PLACE	200	VC	48.36	39,619	528
SAS2169	CENTRE STREET	QUEEN STREET	METCALFE STREET	200	VC	18.32	15,009	200
SAS217	HEPBURN AVENUE	ELM STREET	GLIDDON AVENUE	200	VC	91.4	74,880	998
SAS2170	CENTRE STREET	WILLIAM STREET	QUEEN STREET	200	PVC	53.9	44,158	589
SAS2173	NAAMA STREET	WAWA STREET	ROSS STREET	200	VC	17.8	14,583	194
SAS2174	FOURTH AVENUE	ERIE STREET	FOREST AVENUE	375	VC	54.8	56,365	752
SAS2175	FOURTH AVENUE	ERIE STREET	FOREST AVENUE	375	VC	57.9	59,554	794
SAS2179	PHILIP STREET	HIGH STREET	RYERSON PLACE	200	VC	48.7	39,898	532
SAS218	HEPBURN AVENUE	ELM STREET	GLIDDON AVENUE	200	VC	91.4	74,880	998
SAS2180	PHILIP STREET	HIGH STREET	RYERSON PLACE	200	VC	48.7	39,898	532
SAS2181	DUNKIRK DRIVE	DIEPPE DRIVE	CHURCHILL CRESCENT	200	VC	30.4	24,906	332
SAS2182	ELM STREET	MANOR ROAD	NEAL AVENUE	375	PVC	39.4	40,525	540
SAS2183	NEAL AVENUE	ELM STREET	OLDEWOOD CRESCENT	200	PVC	98.4	80,615	1,075
SAS2184	OLDEWOOD CRESCENT	NEAL AVENUE	FANJOY DRIVE	200	PVC	89.5	73,324	978
SAS2185	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	200	PVC	87	71,276	950
SAS2186	NEAL AVENUE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	200	PVC	104.8	85,858	1,145
SAS2187	FANJOY DRIVE	OLDEWOOD CRESCENT	OLDEWOOD CRESCENT	200	PVC	80.2	65,705	876
SAS2188	NEAL AVENUE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	200	PVC	98.9	81,025	1,080
SAS2189	NEAL AVENUE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	200	PVC	105.8	86,678	1,156
SAS219	GLIDDON AVENUE	HEPBURN AVENUE	WOOD STREET	200	VC	88.4	72,423	966
SAS2190	FANJOY DRIVE	OLDEWOOD CRESCENT	OLDEWOOD CRESCENT	200	PVC	80.4	65,869	878
SAS2191	FANJOY DRIVE	OLDEWOOD CRESCENT	OLDEWOOD CRESCENT	200	PVC	89.6	73,406	979
SAS2192	FANJOY DRIVE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	200	PVC	79.1	64,803	864
SAS2193	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	200	PVC	95.7	78,403	1,045
SAS2194	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	200	PVC	85.1	69,719	930
SAS2195	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	200	PVC	72.4	59,314	791
SAS2196	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	200	PVC	87.6	71,767	957
SAS2197	HIGHVIEW DRIVE	FANJOY DRIVE	HIGHVIEW DRIVE	200	PVC	76.2	62,428	832
SAS2198	HIGHVIEW DRIVE	NEAL AVENUE	FANJOY DRIVE	200	PVC	79.1	64,803	864
SAS2199	HIGHVIEW DRIVE	MANOR ROAD	NEAL AVENUE	200	PVC	43.8	35,884	478
SAS22	DYER STREET	CALDWELL STREET	RAVEN AVENUE	200	AC	53.9	44,158	589
SAS220	GLIDDON AVENUE	HEPBURN AVENUE	WOOD STREET	200	VC	71.6	58,659	782
SAS2200	CHESTNUT STREET	MANOR ROAD	CARRIE CRESCENT	200	PVC	105.2	86,186	1,149
SAS2201	CHESTNUT STREET	CARRIE CRESCENT	CARRIE CRESCENT	200	PVC	91.1	74,635	995
SAS2202	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	200	PVC	85	69,637	928
SAS2203	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	200	PVC	75.2	61,608	821
SAS2204	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	200	PVC	78.3	64,148	855
SAS2205	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	200	PVC	49.2	40,308	537
SAS2206	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	200	PVC	44.3	36,293	484
SAS2207	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	200	PVC	112.7	92,331	1,231

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2208	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	200	PVC	107.6	88,152	1,175
SAS221	GLIDDON AVENUE	HEPBURN AVENUE	WOOD STREET	200	VC	64	52,433	699
SAS2210	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	200	PVC	73.8	60,461	806
SAS2211	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	200	PVC	17.4	14,255	190
SAS2212	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	200	PVC	53.9	44,158	589
SAS2213	EASEMENT	CARRIE CRESCENT	HIGHVIEW DRIVE	200	PVC	37.5	30,722	410
SAS2214	EASEMENT	CARRIE CRESCENT	HIGHVIEW DRIVE	200	PVC	47.8	39,161	522
SAS2215	HARPER ROAD	PROGRESS DRIVE	60M NORTH OF ANDERSON AVENUE	375	AC	1.5	1,543	21
SAS2216	HIGHWAY #3 BYPASS	PROGRESS DRIVE	SPACKMAN BOULEVARD	375	AC	88	90,513	1,207
SAS2217	LAING BOULEVARD	SPACKMAN BOULEVARD	ANDERSON AVENUE	375	AC	1.5	1,543	21
SAS2218	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	300	PVC	44.9	44,840	598
SAS2219	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	250	PVC	43.3	40,653	542
SAS222	WOOD STREET	GLIDDON AVENUE	MANDEVILLE ROAD	250	VC	116.7	109,565	1,461
SAS2220	HIGHVIEW DRIVE	SIFTON DRIVE	WELLINGTON STREET	200	PVC	88.9	72,832	971
SAS2221	HIGHVIEW DRIVE	SIFTON DRIVE	WELLINGTON STREET	200	PVC	85	69,637	928
SAS2222	SIFTON DRIVE	HIGHVIEW DRIVE	LYFORD COURT	250	PVC	43.7	41,028	547
SAS2223	SIFTON DRIVE	HIGHVIEW DRIVE	LYFORD COURT	250	PVC	48.3	45,347	605
SAS2224	LYFORD COURT	SIFTON DRIVE	SOUTH END	200	PVC	123	100,769	1,344
SAS2225	SIFTON DRIVE	LYFORD COURT	ROSETHORN COURT	200	PVC	89.8	73,570	981
SAS2226	COSTELLO COURT	ST. JOSEPH STREET	SOUTH END	200	PVC	39	31,951	426
SAS2227	SOUTH EDGEWARE ROAD	BURWELL ROAD	HARWILL ROAD	250	VC	46	43,188	576
SAS2228	BURWELL ROAD	HARWILL ROAD	PROGRESS DRIVE	250	CO	45	42,249	563
SAS2229	HARWILL ROAD	SOUTH EDGEWARE ROAD	EAST BEND	250	PVC	33.9	31,827	424
SAS223	WOOD STREET	ELM STREET	GLIDDON AVENUE	250	VC	78	73,231	976
SAS2230	HARWILL ROAD	SOUTH EDGEWARE ROAD	EAST BEND	250	PVC	57	53,515	714
SAS2231	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	200	PVC	93.7	76,765	1,024
SAS2232	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	200	PVC	95	77,830	1,038
SAS2233	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	200	PVC	95	77,830	1,038
SAS2234	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	200	PVC	95	77,830	1,038
SAS2235	FIRST AVENUE	WELLINGTON STREET	ERIE STREET	675	CO	49.5	67,194	896
SAS2236	FIRST AVENUE	WELLINGTON STREET	ERIE STREET	450	CO	3	3,175	42
SAS2237	FIRST AVENUE	WELLINGTON STREET	ERIE STREET	675	CO	45	61,086	814
SAS2238	FIRST AVENUE	WELLINGTON STREET	ERIE STREET	825	CO	45	63,777	850
SAS2239	FIRST AVENUE	ERIE STREET	FOREST AVENUE	825	CO	105.9	150,088	2,001
SAS224	WOOD STREET	ELM STREET	GLIDDON AVENUE	250	VC	79.2	74,358	991
SAS2240	FIRST AVENUE	FOREST AVENUE	MYRTLE STREET	825	CO	98.9	140,167	1,869
SAS2241	FIRST AVENUE	MYRTLE STREET	LOCUST STREET	825	CO	93.3	132,230	1,763
SAS2242	FIRST AVENUE	LOCUST STREET	CHESTNUT STREET	825	CO	94.3	133,648	1,782
SAS2243	FIRST AVENUE	LOCUST STREET	CHESTNUT STREET	675	CO	94.3	128,008	1,707
SAS2244	ERIE STREET	SECOND AVENUE	FIRST AVENUE	250	VC	51	47,882	638
SAS2247	LOCUST STREET	WEST OF FIRST AVENUE	FIRST AVENUE	250	VC	83	77,925	1,039
SAS2248	CHESTNUT STREET	THIRD AVENUE	FIRST AVENUE	825	CO	3	4,252	57
SAS2249	CHESTNUT STREET	THIRD AVENUE	FIRST AVENUE	1050	CO	33.7	62,876	838
SAS225	WOOD STREET	ELM STREET	GLIDDON AVENUE	250	VC	76.2	71,541	954
SAS2250	CHESTNUT STREET	THIRD AVENUE	FIRST AVENUE	675	VC	128	173,755	2,317
SAS2251	OWAISSA STREET	HIAWATHA STREET	MONDAMIN STREET	200	VC	59	48,336	644

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2252	EASEMENT	HIAWATHA STREET	MONDAMIN STREET	450	VC	56	59,274	790
SAS2253	EASEMENT	HIAWATHA STREET	MONDAMIN STREET	450	VC	52	55,040	734
SAS2257	PARK AVENUE	TALBOT STREET	SOUTH END	150	VC	34.9	28,592	381
SAS2258	PARK AVENUE	TALBOT STREET	SOUTH END	200	AC	49.6	40,635	542
SAS2259	TALBOT STREET	PARK AVENUE	BURWELL ROAD	450	VC	85.9	90,922	1,212
SAS2259	TALBOT STREET	FIRST AVENUE	PARK AVENUE	450	VC	85.9	90,922	1,212
SAS226	MANDEVILLE ROAD	PARKVIEW DRIVE	HEPBURN AVENUE	200	VC	91.7	75,126	1,002
SAS2260	EASEMENT	ST. CATHARINE STREET	STATION STREET	300	VC	79.8	79,693	1,063
SAS2263	BURWELL ROAD	EDWARD STREET	TALBOT STREET	200	VC	77	63,083	841
SAS2264	BURWELL ROAD	EDWARD STREET	TALBOT STREET	200	VC	28.28	23,169	309
SAS2265	EDWARD STREET	LAING BOULEVARD	BARRIE BOULEVARD	375	VC	59.2	60,891	812
SAS2266	EDWARD STREET	LAING BOULEVARD	BARRIE BOULEVARD	375	VC	22.2	22,834	304
SAS2267	SOUTH EDGEWARE ROAD	WATERWORKS PARK	BALACLAVA STREET	300	VC	29.3	29,261	390
SAS2268	SOUTH EDGEWARE ROAD	WATERWORKS PARK	BALACLAVA STREET	300	VC	91.8	91,677	1,222
SAS2269	EDWARD STREET	BALACLAVA STREET	INKERMAN STREET	200	PVC	68.3	55,955	746
SAS227	MANDEVILLE ROAD	PARKVIEW DRIVE	HEPBURN AVENUE	200	VC	17.4	14,255	190
SAS2271	EDWARD STREET	INKERMAN STREET	WOODWORTH AVENUE	200	PVC	100.1	82,008	1,093
SAS2272	WOODWORTH AVENUE	EDWARD STREET	DANIEL STREET	375	PVC	13	13,371	178
SAS2273	WOODWORTH AVENUE	EDWARD STREET	DANIEL STREET	375	PVC	49.5	50,914	679
SAS2274	EDWARD STREET	INKERMAN STREET	WOODWORTH AVENUE	200	PVC	63	51,613	688
SAS2275	SANDERS COURT	BURWELL ROAD	END	200	PVC	54	44,240	590
SAS2276	SANDERS COURT	BURWELL ROAD	END	200	PVC	11.3	9,258	123
SAS2277	SANDERS COURT	BURWELL ROAD	END	200	PVC	57	46,698	623
SAS2278	SANDERS COURT	BURWELL ROAD	END	200	PVC	60	49,156	655
SAS2279	BENNETT PLACE	BURWELL ROAD	WEST END	200	PVC	83.1	68,081	908
SAS228	PARKVIEW DRIVE	ELM STREET	PINAFORE CRESCENT	200	VC	52.4	42,929	572
SAS2280	BURWELL ROAD	BENNETT PLACE	SOUTH EDGEWARE ROAD	200	PVC	86.4	70,784	944
SAS2281	BURWELL ROAD	SILVER STREET	BENNETT PLACE	200	PVC	11	9,012	120
SAS2282	ROSETHORN COURT	SIFTON DRIVE	END	200	PVC	85	69,637	928
SAS2283	ROSETHORN COURT	SIFTON DRIVE	END	200	PVC	65.2	53,416	712
SAS2284	RODNEY CRESCENT	ROSETHORN COURT	EAST BEND	200	PVC	95.1	77,912	1,039
SAS2285	RODNEY CRESCENT	ROSETHORN COURT	WELLINGTON STREET	200	PVC	86.1	70,538	941
SAS2286	ROSETHORN COURT	RODNEY CRESCENT	SIFTON DRIVE	200	PVC	19.8	16,221	216
SAS2287	ROSETHORN COURT	WELLINGTON STREET	RODNEY CRESCENT	200	PVC	97.3	79,714	1,063
SAS2288	ROSETHORN COURT	WELLINGTON STREET	RODNEY CRESCENT	200	PVC	18.6	15,238	203
SAS2289	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	200	CO	15.2	12,453	166
SAS229	PARKVIEW DRIVE	ELM STREET	PINAFORE CRESCENT	200	VC	55.8	45,715	610
SAS2290	MEDA STREET	HIAWATHA STREET	ST. CATHARINE STREET	250	VC	8	7,511	100
SAS2291	BURWELL ROAD	PONSFORD PLACE	THORMAN TERRACE	600	CO	94.9	108,960	1,453
SAS2292	BURWELL ROAD	PONSFORD PLACE	PONSFORD PLACE	600	CO	89.8	103,105	1,375
SAS2293	BURWELL ROAD	PONSFORD PLACE	DONKER DRIVE	600	CO	100.8	115,735	1,543
SAS2294	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	200	PVC	36	29,493	393
SAS2295	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	200	PVC	86.5	70,866	945
SAS2296	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	200	PVC	15.2	12,453	166
SAS2297	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	200	PVC	79.8	65,377	872
SAS2298	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	200	PVC	17.8	14,583	194

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2299	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	200	PVC	76.6	62,755	837
SAS23	DYER STREET	CALDWELL STREET	RAVEN AVENUE	200	AC	69.2	56,693	756
SAS230	PINAFORE CRESCENT	PARKVIEW DRIVE	NORTH END	200	VC	49.1	40,226	536
SAS2300	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	200	PVC	51.9	42,520	567
SAS2301	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	200	PVC	32.4	26,544	354
SAS2303	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	200	PVC	74	60,625	808
SAS2304	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	200	PVC	68.2	55,874	745
SAS2305	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	200	PVC	45.8	37,522	500
SAS2306	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	200	PVC	95.7	78,403	1,045
SAS2307	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	200	PVC	75.7	62,018	827
SAS2308	WELLINGTON STREET	RICE ROAD	MANOR ROAD	300	PVC	79.5	79,393	1,059
SAS2309	WELLINGTON STREET	MANOR ROAD	WELCH COURT	300	PVC	71.2	71,105	948
SAS231	PINAFORE CRESCENT	PARKVIEW DRIVE	NORTH END	200	VC	70.1	57,430	766
SAS2310	WELLINGTON STREET	MANOR ROAD	WELCH COURT	300	PVC	68.8	68,708	916
SAS2311	WELLINGTON STREET	MANOR ROAD	WELCH COURT	300	PVC	86	85,885	1,145
SAS2312	WELLINGTON STREET	ROSETHORN COURT	RODNEY CRESCENT	300	PVC	113.7	113,548	1,514
SAS2313	WELLINGTON STREET	ROSETHORN COURT	RODNEY CRESCENT	300	PVC	106.6	106,457	1,419
SAS2314	WELLINGTON STREET	ROSETHORN COURT	RODNEY CRESCENT	300	PVC	116.5	116,344	1,551
SAS2315	NULL	NULL	NULL	600	PVC	25.1	28,819	384
SAS2316	AXFORD PARKWAY	SAUVE AVENUE	WARBLER HEIGHTS	450	PVC	101.5	107,434	1,432
SAS2317	AXFORD PARKWAY	SAUVE AVENUE	WARBLER HEIGHTS	450	PVC	90.9	96,214	1,283
SAS2318	SAUVE AVENUE	LEGER AVENUE	AXFORD PARKWAY	250	PVC	31	29,105	388
SAS2319	AXFORD PARKWAY	SCHREYER DRIVE	SAUVE AVENUE	300	PVC	76.3	76,198	1,016
SAS232	PARKVIEW DRIVE	PINAFORE CRESCENT	MANDEVILLE ROAD	200	VC	54.9	44,977	600
SAS2320	AXFORD PARKWAY	SCHREYER DRIVE	SAUVE AVENUE	300	PVC	51.2	51,131	682
SAS2321	AXFORD PARKWAY	SCHREYER DRIVE	SAUVE AVENUE	300	PVC	89.7	89,580	1,194
SAS2322	AXFORD PARKWAY	MCGIBBON AVENUE	SCHREYER DRIVE	300	PVC	63	62,916	839
SAS2323	AXFORD PARKWAY	FAIRVIEW AVENUE	MCGIBBON AVENUE	300	PVC	93.7	93,574	1,248
SAS2324	AXFORD PARKWAY	FAIRVIEW AVENUE	MCGIBBON AVENUE	300	PVC	95	94,873	1,265
SAS2325	SAUVE AVENUE	LEGER AVENUE	AXFORD PARKWAY	300	PVC	298.92	298,519	3,980
SAS2325	AXFORD PARKWAY	SAUVE AVENUE	WARBLER HEIGHTS	300	PVC	298.92	298,519	3,980
SAS2326	ALDBOROUGH AVENUE	PRESPA COURT	MASSEY DRIVE	300	PVC	435.97	435,386	5,805
SAS2326	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	300	PVC	435.97	435,386	5,805
SAS2326	ALDBOROUGH AVENUE	GLANWORTH AVENUE	AIREY AVENUE	300	PVC	435.97	435,386	5,805
SAS2326	ALDBOROUGH AVENUE	MASSEY DRIVE	LEGER AVENUE	300	PVC	435.97	435,386	5,805
SAS2327	HOLLAND AVENUE	ELM STREET	ALDBOROUGH AVENUE	300	PVC	356.94	356,462	4,753
SAS2328	CHESTNUT STREET	CARRIE CRESCENT	COOK CRESCENT	200	PVC	90.4	74,061	987
SAS2329	CHESTNUT STREET	HIGHVIEW DRIVE	COOK CRESCENT	200	PVC	53.8	44,076	588
SAS233	PARKVIEW DRIVE	PINAFORE CRESCENT	MANDEVILLE ROAD	200	VC	76.5	62,673	836
SAS2330	CHESTNUT STREET	HIGHVIEW DRIVE	COOK CRESCENT	200	PVC	53.8	44,076	588
SAS2331	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	200	PVC	69.4	56,857	758
SAS2332	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	200	PVC	69.1	56,611	755
SAS2333	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	200	PVC	12.5	10,241	137
SAS2334	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	200	PVC	51.5	42,192	563
SAS2335	SCHREYER DRIVE	AXFORD PARKWAY	SAUVE AVENUE	200	PVC	87.8	71,931	959
SAS2337	EASEMENT	SCHREYER DRIVE	FANSHAWE COLLEGE	200	PVC	12.8	10,487	140
SAS2338	SCHREYER DRIVE	AXFORD PARKWAY	SAUVE AVENUE	200	PVC	103.2	84,548	1,127
SAS234	PARKVIEW DRIVE	PINAFORE CRESCENT	MANDEVILLE ROAD	200	VC	44.2	36,211	483

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS235	MANDEVILLE ROAD	ELM STREET	PARKVIEW DRIVE	200	VC	74.4	60,953	813
SAS2352	FLEX-O-LITE ROAD	SOUTH EDGEWARE ROAD	DUCKWORTH AVENUE	300	VC	10.5	10,486	140
SAS2353	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	CONFEDERATION DRIVE	300	VC	45	44,940	599
SAS2354	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	CONFEDERATION DRIVE	300	VC	42	41,944	559
SAS236	MANDEVILLE ROAD	ELM STREET	PARKVIEW DRIVE	200	VC	92.4	75,700	1,009
SAS2397	CHESTNUT STREET	HIGH STREET	PARK AVENUE	200	PVC	61.5	50,384	672
SAS2398	SILVER STREET	BURWELL ROAD	END	250	PVC	91.4	85,812	1,144
SAS2399	SILVER STREET	BURWELL ROAD	END	250	PVC	91.4	85,812	1,144
SAS24	DYER STREET	CALDWELL STREET	RAVEN AVENUE	200	AC	70.3	57,594	768
SAS2400	SCHREYER DRIVE	AXFORD PARKWAY	SAUVE AVENUE	200	PVC	116.5	95,444	1,273
SAS2402	SAUVE AVENUE	SCHREYER DRIVE	AXFORD PARKWAY	450	PVC	92.8	98,225	1,310
SAS2403	GALBRAITH COURT	SAUVE AVENUE	END	200	PVC	99.7	81,680	1,089
SAS2405	GALBRAITH COURT	SAUVE AVENUE	END	200	PVC	121.1	99,212	1,323
SAS2406	SAUVE AVENUE	SCHREYER DRIVE	HARRINGTON CRESCENT	450	PVC	89.2	94,415	1,259
SAS2407	SAUVE AVENUE	SCHREYER DRIVE	HARRINGTON CRESCENT	450	PVC	88	93,144	1,242
SAS2408	SAUVE AVENUE	SCHREYER DRIVE	HARRINGTON CRESCENT	450	PVC	47.7	50,489	673
SAS2409	HARRINGTON CRESCENT	SAUVE AVENUE	SAUVE AVENUE	200	PVC	40.9	33,508	447
SAS2410	HARRINGTON CRESCENT	SAUVE AVENUE	SAUVE AVENUE	200	PVC	14.2	11,633	155
SAS2411	HARRINGTON CRESCENT	SAUVE AVENUE	SAUVE AVENUE	200	PVC	60.5	49,565	661
SAS2412	HARRINGTON CRESCENT	SAUVE AVENUE	SAUVE AVENUE	200	PVC	16.8	13,764	184
SAS2413	SAUVE AVENUE	HARRINGTON CRESCENT	HARRINGTON CRESCENT	450	PVC	75.9	80,337	1,071
SAS2414	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	450	PVC	85.8	90,816	1,211
SAS2415	STEEPLECHASE COURT	BODKIN STREET	EAST END	200	PVC	93.4	76,519	1,020
SAS2416	STEEPLECHASE COURT	HIGHVIEW DRIVE	BODKIN STREET	200	PVC	89.2	73,078	974
SAS2417	HIGHVIEW DRIVE	WINDEMERE PLACE	STEEPLECHASE COURT	200	PVC	93.7	76,765	1,024
SAS2418	HIGHVIEW DRIVE	WINDEMERE PLACE	STEEPLECHASE COURT	200	PVC	87.8	71,931	959
SAS2419	WINDEMERE PLACE	HIGHVIEW DRIVE	END	200	PVC	110	90,119	1,202
SAS2420	HIGHVIEW DRIVE	WELLINGTON STREET	WINDEMERE PLACE	200	PVC	100.4	82,254	1,097
SAS2421	BODKIN STREET	STEEPLECHASE COURT	EAST END	200	PVC	90.8	74,389	992
SAS2422	BODKIN STREET	STEEPLECHASE COURT	EAST END	200	PVC	94.8	77,666	1,036
SAS2423	HIGHVIEW DRIVE	STEEPLECHASE COURT	LEXINGTON COURT	200	PVC	88.1	72,177	962
SAS2424	LEXINGTON COURT	HIGHVIEW DRIVE	END	200	PVC	114.5	93,805	1,251
SAS2426	LEXINGTON COURT	HIGHVIEW DRIVE	END	200	PVC	83.2	68,162	909
SAS2427	HIGHVIEW DRIVE	LEXINGTON COURT	FALCONRIDGE COURT	200	PVC	92.7	75,945	1,013
SAS2428	HIGHVIEW DRIVE	FALCONRIDGE COURT	CHESTNUT STREET	200	PVC	36.4	29,821	398
SAS2429	CHESTNUT STREET	BAILEY AVENUE	HIGHVIEW DRIVE	200	PVC	86.3	70,702	943
SAS2430	EASEMENT	WINDEMERE PLACE	BODKIN STREET	200	PVC	89	72,914	972
SAS2431	COOK CRESCENT	CHESTNUT STREET	HIGHVIEW DRIVE	200	PVC	77.6	63,575	848
SAS2432	COOK CRESCENT	CHESTNUT STREET	HIGHVIEW DRIVE	200	PVC	69.3	56,775	757
SAS2433	COOK CRESCENT	CHESTNUT STREET	HIGHVIEW DRIVE	200	PVC	22.2	18,188	243
SAS2434	COOK CRESCENT	CHESTNUT STREET	HIGHVIEW DRIVE	200	PVC	68.4	56,037	747
SAS2435	HIGHVIEW DRIVE	FANJOY DRIVE	HIGHVIEW DRIVE	200	PVC	55.6	45,551	607
SAS2436	HIGHVIEW DRIVE	FANJOY DRIVE	HIGHVIEW DRIVE	200	PVC	32.8	26,872	358

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2437	HIGHVIEW DRIVE	HIGHVIEW DRIVE	EAST END	200	PVC	31	25,397	339
SAS2438	HIGHVIEW DRIVE	COOK CRESCENT	HIGHVIEW DRIVE	200	PVC	96.6	79,141	1,055
SAS2439	HIGHVIEW DRIVE	CHESTNUT STREET	COOK CRESCENT	200	PVC	90.4	74,061	987
SAS2440	HIGHVIEW DRIVE	CHESTNUT STREET	COOK CRESCENT	200	PVC	95.7	78,403	1,045
SAS2441	FALCONRIDGE COURT	HIGHVIEW DRIVE	CUL-DE-SAC	200	PVC	91	74,553	994
SAS2442	FALCONRIDGE COURT	HIGHVIEW DRIVE	END	200	PVC	93	76,191	1,016
SAS2443	END OF WINDEMERE PLACE	CUL-DE-SAC	BODKIN STREET	200	PVC	98.5	80,697	1,076
SAS2444	BURWELL ROAD	DONKER DRIVE	DENNIS ROAD	600	CO	48.6	55,801	744
SAS2445	BURWELL ROAD	DONKER DRIVE	DENNIS ROAD	525	CO	69.4	77,607	1,035
SAS2446	BURWELL ROAD	DONKER DRIVE	DENNIS ROAD	525	CO	70.7	79,061	1,054
SAS2447	BURWELL ROAD	DONKER DRIVE	DENNIS ROAD	525	CO	59.9	66,984	893
SAS2448	BURWELL ROAD	DONKER DRIVE	DENNIS ROAD	525	CO	70.8	79,173	1,056
SAS2449	BURWELL ROAD	GREENWAY BOULEVARD	DENNIS ROAD	525	CO	83.1	92,927	1,239
SAS245	ERIE STREET	FOURTH AVENUE	THIRD AVENUE	300	VC	92	91,877	1,225
SAS2450	BURWELL ROAD	GREENWAY BOULEVARD	DENNIS ROAD	450	CO	84.2	89,122	1,188
SAS2451	BURWELL ROAD	COTTONWOOD DRIVE	GREENWAY BOULEVARD	450	CO	78.7	83,301	1,111
SAS2451	BURWELL ROAD	GREENWAY BOULEVARD	DENNIS ROAD	450	CO	78.7	83,301	1,111
SAS2452	BURWELL ROAD	COTTONWOOD DRIVE	GREENWAY BOULEVARD	450	CO	114	120,664	1,609
SAS2453	BURWELL ROAD	COTTONWOOD DRIVE	GREENWAY BOULEVARD	450	CO	107.7	113,996	1,520
SAS2454	BURWELL ROAD	COTTONWOOD DRIVE	RIVERBANK DRIVE	450	CO	87.7	92,827	1,238
SAS2455	BURWELL ROAD	BROOKSIDE DRIVE	RIVERBANK DRIVE	450	CO	63.1	66,789	891
SAS2456	BURWELL ROAD	RON MCNEIL LINE	BROOKSIDE DRIVE	450	CO	78	82,560	1,101
SAS2457	RIVERBANK DRIVE	BURWELL ROAD	GOLDENROD COURT	375	PVC	47.9	49,268	657
SAS2458	RIVERBANK DRIVE	BURWELL ROAD	GOLDENROD COURT	375	PVC	90.4	92,982	1,240
SAS2459	RIVERBANK DRIVE	BURWELL ROAD	GOLDENROD COURT	375	PVC	109.5	112,627	1,502
SAS246	ERIE STREET	FOURTH AVENUE	THIRD AVENUE	300	VC	97.2	97,070	1,294
SAS2460	COTTONWOOD DRIVE	BURWELL ROAD	MAGNOLIA COURT	200	PVC	42.5	34,819	464
SAS2461	COTTONWOOD DRIVE	MAGNOLIA COURT	AMBERWOOD COURT	200	PVC	38.4	31,460	419
SAS2462	COTTONWOOD DRIVE	MAGNOLIA COURT	AMBERWOOD COURT	200	PVC	38.1	31,214	416
SAS2463	COTTONWOOD DRIVE	AMBERWOOD COURT	LINDEN LANE	200	PVC	119.7	98,065	1,308
SAS2464	AMBERWOOD COURT	COTTONWOOD DRIVE	END	200	PVC	27.3	22,366	298
SAS2465	AMBERWOOD COURT	COTTONWOOD DRIVE	END	200	PVC	65.7	53,825	718
SAS2466	MAGNOLIA COURT	COTTONWOOD DRIVE	END	200	PVC	108.6	88,972	1,186
SAS2467	AXFORD PARKWAY	SAUVE AVENUE	WARBLER HEIGHTS	450	PVC	79.19	83,819	1,118
SAS2468	AXFORD PARKWAY	SAUVE AVENUE	WARBLER HEIGHTS	450	PVC	37.8	40,010	533
SAS2469	AXFORD PARKWAY	LAKE MARGARET TRAIL	WARBLER HEIGHTS	450	PVC	108.6	114,949	1,533
SAS2470	LAKE MARGARET TRAIL	AXFORD PARKWAY	BLUE HERON PLACE	450	PVC	76.9	81,396	1,085
SAS2471	LAKE MARGARET TRAIL	AXFORD PARKWAY	BLUE HERON PLACE	450	PVC	71.4	75,574	1,008
SAS2472	LAKE MARGARET TRAIL	BLUE HERON PLACE	BEECHWOOD CIRCLE	450	PVC	63	66,683	889
SAS2473	BLUE HERON PLACE	LAKE MARGARET TRAIL	MULBERRY LANE	200	PVC	89.6	73,406	979
SAS2474	MULBERRY LANE	BLUE HERON PLACE	END	200	PVC	79.7	65,295	871
SAS2475	MULBERRY LANE	BLUE HERON PLACE	END	200	PVC	24.3	19,908	265
SAS2476	BLUE HERON PLACE	MULBERRY LANE	END	200	PVC	33.2	27,199	363
SAS2477	WARBLER HEIGHTS	AXFORD PARKWAY	HUMMINGBIRD LANE	200	PVC	111.5	91,347	1,218
SAS2478	WARBLER HEIGHTS	AXFORD PARKWAY	HUMMINGBIRD LANE	200	PVC	57.5	47,107	628
SAS2479	WARBLER HEIGHTS	HUMMINGBIRD LANE	END	200	PVC	116.1	95,116	1,268
SAS2480	WARBLER HEIGHTS	HUMMINGBIRD LANE	END	200	PVC	32.4	26,544	354

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2482	SOUTH EDGEWARE ROAD	HARPER ROAD	HIGHBURY AVENUE	375	PVC	131.02	134,762	1,797
SAS2483	SOUTH EDGEWARE ROAD	HIGHBURY AVENUE	CENTENNIAL AVENUE	375	PVC	71.32	73,357	978
SAS2484	SOUTH EDGEWARE ROAD	HARWILL ROAD	PROGRESS DRIVE	375	PVC	86.81	89,289	1,191
SAS2486	WELLINGTON STREET	COULTER AVENUE	HEDGES COURT	300	PVC	23.02	22,989	307
SAS2487	HEDGES COURT	WELLINGTON STREET	END	200	PVC	76.5	62,673	836
SAS2488	STANLEY STREET	TALBOT STREET	CENTRE STREET	200	VC	100.91	82,672	1,102
SAS2489	EDWARD STREET	BARRIE BOULEVARD	CENTENNIAL AVENUE	375	VC	34.85	35,845	478
SAS2490	EASEMENT	GREENWAY BOULEVARD	DONKER DRIVE	300	CO	56.2	56,125	748
SAS2491	ST. ANNE'S PLACE	CROCKER AVENUE	ELGIN STREET	200	VC	19.56	16,025	214
SAS2492	HUNTINGTON TERRACE	WELLINGTON STREET	END	200	PVC	96.5	79,059	1,054
SAS2493	EASEMENT	ST. GEORGE STREET	ATHLETIC PARK	300	PVC	26.21	26,175	349
SAS2494	HIGHVIEW DRIVE	FANJOY DRIVE	HIGHVIEW DRIVE	200	PVC	29.5	24,168	322
SAS2495	BURWELL ROAD	BROOKSIDE DRIVE	RIVERBANK DRIVE	450	CO	61.6	65,201	869
SAS2496	RIVERBANK DRIVE	BURWELL ROAD	GOLDENROD COURT	375	PVC	91.4	94,010	1,253
SAS2497	SUNSET DRIVE	GLENWOOD AVENUE	SOUTHDALE LINE	450	DI	140.21	148,407	1,979
SAS2498	SUNSET DRIVE	GLENWOOD AVENUE	SOUTHDALE LINE	450	DI	132.59	140,341	1,871
SAS2499	SUNSET DRIVE	GLENWOOD AVENUE	SOUTHDALE LINE	450	DI	131.5	139,187	1,856
SAS25	DYER STREET	CALDWELL STREET	RAVEN AVENUE	200	AC	84.9	69,555	927
SAS2500	SUNSET DRIVE	GLENWOOD AVENUE	SOUTHDALE LINE	450	DI	139.8	147,973	1,973
SAS2501	SUNSET DRIVE	GLENWOOD AVENUE	CANNONDALES	450	DI	56.65	59,962	799
SAS2502	SUNSET DRIVE	GLENWOOD AVENUE	SOUTHDALE LINE	450	VC	120.4	127,439	1,699
SAS2502	SUNSET DRIVE	SHAW VALLEY DRIVE	PARKSIDE COLLEGIATE INSTITUTE	450	VC	120.4	127,439	1,699
SAS2503	SUNSET DRIVE	SHAW VALLEY DRIVE	PARKSIDE COLLEGIATE INSTITUTE	450	VC	120.4	127,439	1,699
SAS2503	SUNSET DRIVE	GLENWOOD AVENUE	SOUTHDALE LINE	450	VC	120.4	127,439	1,699
SAS2504	SUNSET DRIVE	SHAW VALLEY DRIVE	PARKSIDE COLLEGIATE INSTITUTE	450	DI	126.49	133,885	1,785
SAS2505	SUNSET DRIVE	SHAW VALLEY DRIVE	PARKSIDE COLLEGIATE INSTITUTE	450	DI	124.97	132,276	1,764
SAS2506	SUNSET DRIVE	WILSON AVENUE	SHAW VALLEY DRIVE	450	DI	121.92	129,047	1,721
SAS2507	SUNSET DRIVE	SOUTHDALE LINE	STPH	250	DI	849	797,092	10,628
SAS2508	SOUTH EDGEWARE ROAD	96M WEST OF PROGRESS DRIVE	PROGRESS DRIVE	300	VC	37.54	37,490	500
SAS2509	BEECHWOOD CIRCLE	LAKE MARGARET TRAIL	WEST END	200	PVC	95.8	78,485	1,046
SAS2510	BEECHWOOD CIRCLE	LAKE MARGARET TRAIL	WEST END	200	PVC	91.9	75,290	1,004
SAS2511	BEECHWOOD CIRCLE	LAKE MARGARET TRAIL	WEST END	250	PVC	41.2	38,681	516
SAS2512	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDALE LINE	450	PVC	44.6	47,207	629
SAS2513	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDALE LINE	450	PVC	110	116,431	1,552
SAS2514	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDALE LINE	450	PVC	110	116,431	1,552
SAS2515	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDALE LINE	450	PVC	95.5	101,083	1,348
SAS2516	LAKE MARGARET TRAIL	BEECHWOOD CIRCLE	HICKORY LANE	450	PVC	68.9	72,928	972
SAS2517	HICKORY LANE	LAKE MARGARET TRAIL	ORIOLE LANE	250	PVC	77.7	72,949	973
SAS2518	HICKORY LANE	LAKE MARGARET TRAIL	ORIOLE LANE	250	PVC	37.1	34,832	464
SAS2519	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	OAKMONT STREET	375	PVC	34	34,971	466
SAS2520	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	AUGUSTA CRESCENT	375	PVC	76	78,171	1,042

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2521	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	AUGUSTA CRESCENT	375	PVC	76.1	78,273	1,044
SAS2522	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	AUGUSTA CRESCENT	375	PVC	48	49,371	658
SAS2523	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	SUNSET DRIVE	375	PVC	104.5	107,485	1,433
SAS2524	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	200	PVC	38.5	31,542	421
SAS2525	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	200	PVC	55	45,059	601
SAS2526	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	200	PVC	47	38,505	513
SAS2527	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	200	PVC	48.6	39,816	531
SAS2528	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	200	PVC	58.4	47,845	638
SAS2529	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	200	PVC	93	76,191	1,016
SAS253	FIFTH AVENUE	ERIE STREET	FOREST AVENUE	200	VC	105.2	86,186	1,149
SAS2530	RIVERBANK DRIVE	CRANBERRY COURT	END	375	PVC	55	56,571	754
SAS2531	RIVERBANK DRIVE	GOLDENROD COURT	CRANBERRY COURT	375	PVC	120.5	123,941	1,653
SAS2532	GOLDENROD COURT	RIVERBANK DRIVE	COTTONWOOD DRIVE	200	PVC	55	45,059	601
SAS2533	COTTONWOOD DRIVE	GOLDENROD COURT	LINDEN LANE	200	PVC	109.9	90,037	1,200
SAS2534	COTTONWOOD DRIVE	GOLDENROD COURT	LINDEN LANE	200	PVC	32.4	26,544	354
SAS2535	LINDEN LANE	COTTONWOOD DRIVE	END	200	PVC	93	76,191	1,016
SAS2536	LINDEN LANE	COTTONWOOD DRIVE	END	200	PVC	50.7	41,536	554
SAS2537	GOLDENROD COURT	COTTONWOOD DRIVE	END	200	PVC	90	73,733	983
SAS2538	CRANBERRY COURT	RIVERBANK DRIVE	END	200	PVC	95	77,830	1,038
SAS2539	CRANBERRY COURT	RIVERBANK DRIVE	END	200	PVC	26.7	21,874	292
SAS2540	EASEMENT	RIVERBANK DRIVE	HIGHBURY AVENUE	375	PVC	89.9	92,468	1,233
SAS2541	EASEMENT	RIVERBANK DRIVE	HIGHBURY AVENUE	375	PVC	89.9	92,468	1,233
SAS2542	RIVERBANK DRIVE	CRANBERRY COURT	END	375	PVC	72.7	74,776	997
SAS2543	EASEMENT	FAIRVIEW AVENUE	HAGERMAN CRESCENT	300	PVC	91.4	91,278	1,217
SAS2544	HAGERMAN CRESCENT	FAITH BOULEVARD	FAITH BOULEVARD	300	PVC	84.9	84,786	1,130
SAS2545	HAGERMAN CRESCENT	FAITH BOULEVARD	SOUTHGATE PARKWAY	200	PVC	49.9	40,881	545
SAS2546	HAGERMAN CRESCENT	FAITH BOULEVARD	FAITH BOULEVARD	200	PVC	27.9	22,857	305
SAS2547	FAITH BOULEVARD	HAGERMAN CRESCENT	HAGERMAN CRESCENT	300	PVC	107.3	107,156	1,429
SAS2548	FAITH BOULEVARD	HAGERMAN CRESCENT	HAGERMAN CRESCENT	300	PVC	108.3	108,155	1,442
SAS2549	FAITH BOULEVARD	HAGERMAN CRESCENT	SOUTHGATE PARKWAY	300	PVC	90.1	89,979	1,200
SAS2550	BARRETT CRESCENT	SOUTHGATE PARKWAY	COLEMAN COURT	200	PVC	92.1	75,454	1,006
SAS2551	BARRETT CRESCENT	SOUTHGATE PARKWAY	COLEMAN COURT	200	PVC	57.9	47,435	632
SAS2552	EASEMENT	BARRETT CRESCENT	FAITH BAPTIST CHURCH	200	PVC	45.6	37,358	498
SAS2553	SOUTHGATE PARKWAY	FAIRVIEW AVENUE	FAITH BOULEVARD	200	PVC	111.1	91,020	1,214
SAS2554	ORIOLE LANE	HICKORY LANE	END	200	PVC	39.9	32,688	436
SAS2555	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	250	PVC	28.5	26,758	357
SAS2556	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	250	PVC	110	103,275	1,377
SAS2557	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	250	PVC	40.2	37,742	503
SAS2558	ORIOLE LANE	HICKORY LANE	END	200	PVC	27	22,120	295
SAS2559	ORIOLE LANE	HICKORY LANE	END	200	PVC	107.5	88,070	1,174
SAS2560	ORIOLE LANE	HICKORY LANE	END	200	PVC	63.4	51,941	693
SAS2561	KOPIC COURT	PARK AVENUE	WEST END	200	PVC	66.1	54,153	722
SAS2562	EASEMENT	ROSETHORN COURT	TALBOT STREET	150	PVC	35	28,674	382
SAS2563	EASEMENT	ROSETHORN COURT	TALBOT STREET	150	PVC	31.86	26,102	348
SAS2564	EASEMENT	ROSETHORN COURT	TALBOT STREET	150	PVC	19.6	16,057	214
SAS2565	EASEMENT	ROSETHORN COURT	TALBOT STREET	150	PVC	68.38	56,021	747
SAS2566	EASEMENT	ROSETHORN COURT	TALBOT STREET	150	PVC	43.18	35,376	472
SAS2567	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	200	PVC	16.57	13,575	181

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2573	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	200	VC	33.1	27,118	362
SAS2574	BALACLAVA STREET	EDWARD STREET	HAMMOND STREET	200	PVC	12.3	10,077	134
SAS2575	EASEMENT	BALACLAVA STREET	INKERMAN STREET	200	PVC	56.4	46,206	616
SAS2576	EASEMENT	BALACLAVA STREET	INKERMAN STREET	200	PVC	44.9	36,785	490
SAS2577	LAKE MARGARET TRAIL	AXFORD PARKWAY	OSPREY LANE	250	PVC	105.1	98,674	1,316
SAS2578	LAKE MARGARET TRAIL	AXFORD PARKWAY	OSPREY LANE	250	PVC	105	98,580	1,314
SAS2579	LAKE MARGARET TRAIL	AXFORD PARKWAY	OSPREY LANE	250	PVC	56.4	52,952	706
SAS2580	LAKE MARGARET TRAIL	AXFORD PARKWAY	OSPREY LANE	250	PVC	56.4	52,952	706
SAS2581	SOUTHGATE PARKWAY	FAITH BOULEVARD	HAGERMAN CRESCENT	300	PVC	83.6	83,488	1,113
SAS2582	SOUTHGATE PARKWAY	HAGERMAN CRESCENT	PENHALE AVENUE	300	PVC	90.8	90,678	1,209
SAS2583	SOUTHGATE PARKWAY	PENHALE AVENUE	BLAIRMONT TERRACE	250	PVC	84.4	79,240	1,057
SAS2584	SOUTHGATE PARKWAY	PENHALE AVENUE	BLAIRMONT TERRACE	250	PVC	110	103,275	1,377
SAS2585	SOUTHGATE PARKWAY	PENHALE AVENUE	BLAIRMONT TERRACE	250	PVC	20	18,777	250
SAS2586	THIRD AVENUE	WELLINGTON STREET	NORTH END	200	PVC	96.3	78,895	1,052
SAS2587	THIRD AVENUE	WELLINGTON STREET	NORTH END	200	PVC	16	13,108	175
SAS2588	THIRD AVENUE	WELLINGTON STREET	NORTH END	200	PVC	62	50,794	677
SAS2589	THIRD AVENUE	WELLINGTON STREET	NORTH END	200	PVC	16	13,108	175
SAS2590	THIRD AVENUE	WELLINGTON STREET	NORTH END	200	PVC	27.7	22,694	303
SAS2591	THIRD AVENUE	WELLINGTON STREET	NORTH END	200	PVC	47	38,505	513
SAS2592	NULL	NULL	NULL	200	PVC	2	1,639	22
SAS2593	GLENVIEW COURT	BURWELL ROAD	END	200	PVC	101.5	83,155	1,109
SAS2594	GLENVIEW COURT	BURWELL ROAD	END	200	PVC	29.2	23,922	319
SAS2595	GLENVIEW COURT	BURWELL ROAD	END	200	PVC	20.9	17,123	228
SAS2596	GLENVIEW COURT	BURWELL ROAD	END	200	PVC	34.3	28,101	375
SAS2597	BROOKSIDE DRIVE	BURWELL ROAD	MEADOWVALE DRIVE	200	PVC	43.8	35,884	478
SAS2598	BROOKSIDE DRIVE	BURWELL ROAD	MEADOWVALE DRIVE	200	PVC	52.6	43,093	575
SAS2599	BROOKSIDE DRIVE	BURWELL ROAD	MEADOWVALE DRIVE	200	PVC	42.7	34,982	466
SAS26	VANIER PLACE	KER STREET	EAST END	200	AC	80.8	66,196	883
SAS2600	BROOKSIDE DRIVE	MEADOWVALE DRIVE	MEADOWVALE DRIVE	200	PVC	88.7	72,668	969
SAS2601	BROOKSIDE DRIVE	MEADOWVALE DRIVE	MEADOWVALE DRIVE	200	PVC	80	65,541	874
SAS2602	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	200	PVC	102.1	83,646	1,115
SAS2603	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	200	PVC	39.3	32,197	429
SAS2604	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	200	PVC	64.5	52,842	705
SAS2605	BROOKSIDE DRIVE	MEADOWVALE DRIVE	MEADOWVALE DRIVE	200	PVC	61.8	50,630	675
SAS2606	BROOKSIDE DRIVE	MEADOWVALE DRIVE	MEADOWVALE DRIVE	200	PVC	35.7	29,248	390
SAS2607	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	200	PVC	79.8	65,377	872
SAS2608	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	200	PVC	72.2	59,151	789
SAS2609	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	200	PVC	57	46,698	623
SAS2610	MEADOWVALE DRIVE	BROOKSIDE DRIVE	NORTH END	200	PVC	74.8	61,281	817
SAS2611	EASEMENT	GREENWAY BOULEVARD	DONKER DRIVE	300	PVC	92	91,877	1,225
SAS2612	EASEMENT	GREENWAY BOULEVARD	DONKER DRIVE	300	PVC	92	91,877	1,225
SAS2613	GREENWAY BOULEVARD	HAWTHORN COURT	PINE VALLEY DRIVE	200	PVC	106.4	87,169	1,162
SAS2614	GREENWAY BOULEVARD	HAWTHORN COURT	PINE VALLEY DRIVE	200	PVC	110	90,119	1,202
SAS2615	GREENWAY BOULEVARD	HAVENRIDGE COURT	HAWTHORN COURT	200	PVC	83.5	68,408	912
SAS2616	HAVENRIDGE COURT	GREENWAY BOULEVARD	16 HAVENRIDGE COURT	200	PVC	37.5	30,722	410

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2617	HAVENRIDGE COURT	GREENWAY BOULEVARD	16 HAVENRIDGE COURT	200	PVC	52.9	43,339	578
SAS2618	HAVENRIDGE COURT	16 HAVENRIDGE COURT	END	200	PVC	70.3	57,594	768
SAS2619	HAVENRIDGE COURT	16 HAVENRIDGE COURT	END	200	PVC	83.4	68,326	911
SAS2620	HAWTHORN COURT	GREENWAY BOULEVARD	END	200	PVC	69.6	57,020	760
SAS2621	HAWTHORN COURT	GREENWAY BOULEVARD	END	200	PVC	68.8	56,365	752
SAS2622	HAWTHORN COURT	GREENWAY BOULEVARD	END	200	PVC	26.7	21,874	292
SAS2624	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	200	PVC	79.4	65,049	867
SAS2625	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	200	PVC	85.8	70,293	937
SAS2627	BURWELL ROAD	EDWARD STREET	TALBOT STREET	150	VC	28.041	22,973	306
SAS2628	HIGHBURY AVENUE	DENNIS ROAD	EDGEWARE LINE	200	PVC	54	44,240	590
SAS2629	HIGHBURY AVENUE	RON MCNEIL LINE	DENNIS ROAD	200	PVC	93	76,191	1,016
SAS263	ROSS STREET	COLLEGE STREET	LOCUST STREET	375	VC	24.4	25,097	335
SAS2630	HIGHBURY AVENUE	RON MCNEIL LINE	DENNIS ROAD	250	PVC	80.7	75,766	1,010
SAS2631	HIGHBURY AVENUE	RON MCNEIL LINE	DENNIS ROAD	250	PVC	90	84,497	1,127
SAS2632	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	200	PVC	88.8	72,750	970
SAS2633	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	200	PVC	86.9	71,194	949
SAS2634	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	200	PVC	95.7	78,403	1,045
SAS2635	PENHALE AVENUE	SOUTHGATE PARKWAY	FENWICK COURT	200	PVC	105.6	86,514	1,154
SAS2636	PENHALE AVENUE	SOUTHGATE PARKWAY	FENWICK COURT	200	PVC	105.7	86,596	1,155
SAS2637	FENWICK COURT	PENHALE AVENUE	EAST END	200	PVC	84.5	69,227	923
SAS2638	FENWICK COURT	PENHALE AVENUE	EAST END	200	PVC	81	66,360	885
SAS2639	PENHALE AVENUE	FENWICK COURT	KENSINGTON COURT	200	PVC	100.2	82,090	1,095
SAS2640	PENHALE AVENUE	KENSINGTON COURT	CHAMBERLAIN COURT	200	PVC	102.1	83,646	1,115
SAS2641	PENHALE AVENUE	CHAMBERLAIN COURT	SOUTHDALE LINE	200	PVC	36.2	29,657	395
SAS2642	KENSINGTON COURT	PENHALE AVENUE	CUL-DE-SAC	200	PVC	97.9	80,206	1,069
SAS2643	KENSINGTON COURT	PENHALE AVENUE	CUL-DE-SAC	200	PVC	73.3	60,052	801
SAS2644	CHAMBERLAIN COURT	PENHALE AVENUE	CUL-DE-SAC	200	PVC	92.5	75,782	1,010
SAS2645	CHAMBERLAIN COURT	PENHALE AVENUE	CUL-DE-SAC	200	PVC	72.3	59,232	790
SAS2646	PRESPA COURT	ALDBOROUGH AVENUE	END	200	PVC	86.2	70,620	942
SAS2647	BAILEY AVENUE	CHESTNUT STREET	REDTAIL COURT	200	PVC	60.4	49,483	660
SAS2648	BAILEY AVENUE	REDTAIL COURT	KANTOR COURT	200	PVC	96.9	79,386	1,058
SAS2649	BAILEY AVENUE	KANTOR COURT	SOUTH END	200	PVC	38.5	31,542	421
SAS265	ROSS STREET	MYRTLE STREET	COLLEGE STREET	375	VC	69	70,971	946
SAS2650	REDTAIL COURT	BAILEY AVENUE	EAST END	200	PVC	100	81,926	1,092
SAS2651	REDTAIL COURT	BAILEY AVENUE	EAST END	200	PVC	101	82,745	1,103
SAS2652	KANTOR COURT	BAILEY AVENUE	CUL-DE-SAC	200	PVC	100.3	82,172	1,096
SAS2653	KANTOR COURT	BAILEY AVENUE	CUL-DE-SAC	200	PVC	96.9	79,386	1,058
SAS2654	COLEMAN COURT	BARRETT CRESCENT	END	200	PVC	62.2	50,958	679
SAS2655	HAGERMAN CRESCENT	EAST BEND	SOUTHGATE PARKWAY	200	PVC	94.3	77,256	1,030
SAS2656	HAGERMAN CRESCENT	EAST BEND	SOUTHGATE PARKWAY	200	PVC	98	80,287	1,070
SAS2657	HAGERMAN CRESCENT	EAST BEND	SOUTHGATE PARKWAY	200	PVC	98.9	81,025	1,080
SAS2658	COLEMAN COURT	BARRETT CRESCENT	END	200	PVC	85.2	69,801	931
SAS2659	BARRETT CRESCENT	SOUTHGATE PARKWAY	COLEMAN COURT	200	PVC	68.6	56,201	749
SAS266	FIFTH AVENUE	FOREST AVENUE	MYRTLE STREET	200	VC	107.3	87,907	1,172
SAS2660	BARRETT CRESCENT	SOUTHGATE PARKWAY	COLEMAN COURT	200	PVC	68.5	56,119	748
SAS2661	BARRETT CRESCENT	SOUTHGATE PARKWAY	COLEMAN COURT	200	PVC	83	67,999	907
SAS2662	WELLINGTON STREET	HEDGES COURT	CENTENNIAL AVENUE	300	PVC	51.5	51,431	686
SAS2663	HIGHVIEW DRIVE	FANJOY DRIVE	HIGHVIEW DRIVE	200	PVC	55.6	45,551	607

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2664	EASEMENT	ROSETHORN COURT	TALBOT STREET	150	PVC	33.77	27,666	369
SAS2665	SCOTT STREET	PENWARDEN STREET	EAST STREET	250	CO	25	23,472	313
SAS2666	MANITOBA STREET	TALBOT STREET	CELESTINE STREET	200	VC	21	17,204	229
SAS2667	EDWARD STREET	INKERMAN STREET	WOODWORTH AVENUE	200	PVC	104.59	85,686	1,142
SAS2668	EASEMENT	SCHREYER DRIVE	FANSHAWE COLLEGE	200	PVC	30.4	24,906	332
SAS2669	HAGERMAN CRESCENT	WEST BEND	SOUTHWEST BEND	200	PVC	108.1	88,562	1,181
SAS2670	HAGERMAN CRESCENT	FAITH BOULEVARD	FAITH BOULEVARD	200	PVC	83.9	68,736	916
SAS2671	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	450	PVC	105.1	111,244	1,483
SAS2672	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	450	PVC	103.9	109,974	1,466
SAS2673	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	450	PVC	77.1	81,607	1,088
SAS2674	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	200	PVC	13	10,650	142
SAS2675	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	200	PVC	102	83,565	1,114
SAS2676	BILL MARTYN PARKWAY	SAUVE AVENUE	SOUTHDALE LINE	450	PVC	12	12,702	169
SAS2677	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	200	PVC	13	10,650	142
SAS2678	EASEMENT	BILL MARTYN PARKWAY	DOUG TARRY BALL COMPLEX	200	PVC	29	23,759	317
SAS2679	EASEMENT	BILL MARTYN PARKWAY	DOUG TARRY BALL COMPLEX	200	PVC	98	80,287	1,070
SAS2680	EASEMENT	BILL MARTYN PARKWAY	DOUG TARRY BALL COMPLEX	200	PVC	35	28,674	382
SAS2681	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	200	PVC	13	10,650	142
SAS2682	EDWARD STREET	WOODWORTH AVENUE	FIRST AVENUE	250	PVC	10.5	9,858	131
SAS2684	AXFORD PARKWAY	RAVINE	ALDBOROUGH AVENUE	450	PVC	8.3	8,785	117
SAS2685	LAKE MARGARET TRAIL	OSPREY LANE	HUMMINGBIRD LANE	200	PVC	33	27,036	360
SAS2686	OSPREY LANE	HUMMINGBIRD LANE	LAKE MARGARET TRAIL	200	PVC	92.1	75,454	1,006
SAS2687	HUMMINGBIRD LANE	OSPREY LANE	WARBLER HEIGHTS	200	PVC	91.7	75,126	1,002
SAS2688	HUMMINGBIRD LANE	OSPREY LANE	WARBLER HEIGHTS	200	PVC	81.5	66,770	890
SAS2689	HUMMINGBIRD LANE	OSPREY LANE	WARBLER HEIGHTS	200	PVC	84.9	69,555	927
SAS2690	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	200	PVC	55.3	45,305	604
SAS2691	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	200	PVC	57.9	47,435	632
SAS2692	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	200	PVC	78.3	64,148	855
SAS2693	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	200	PVC	61.7	50,548	674
SAS2694	HUMMINGBIRD LANE	MOURNING DOVE LANE	KINGFISHER COURT	200	PVC	60.8	49,811	664
SAS2695	MOURNING DOVE LANE	HUMMINGBIRD LANE	SANDPIPER PLACE	200	PVC	62.3	51,040	681
SAS2696	MOURNING DOVE LANE	HUMMINGBIRD LANE	SANDPIPER PLACE	200	PVC	60.7	49,729	663
SAS2697	MOURNING DOVE LANE	SANDPIPER PLACE	MONARCH COURT	200	PVC	89.4	73,242	977
SAS2698	MOURNING DOVE LANE	MONARCH COURT	NORTH END	200	PVC	85.1	69,719	930
SAS2699	SANDPIPER PLACE	MOURNING DOVE LANE	WEST END	200	PVC	50.2	41,127	548
SAS27	VANIER PLACE	KER STREET	EAST END	200	AC	91.4	74,880	998
SAS2700	SANDPIPER PLACE	MOURNING DOVE LANE	WEST END	200	PVC	30.1	24,660	329
SAS2701	MONARCH COURT	MOURNING DOVE LANE	WEST END	200	PVC	61	49,975	666
SAS2702	MARY BUCKE STREET	TREVITHICK TERRACE	PARK AVENUE	200	PVC	32	26,216	350
SAS2703	MARY BUCKE STREET	TREVITHICK TERRACE	PARK AVENUE	200	PVC	48.1	39,406	525
SAS2704	MARY BUCKE STREET	TREVITHICK TERRACE	PARK AVENUE	200	PVC	100	81,926	1,092
SAS2705	EASEMENT	WALNUT STREET	SUNSET DRIVE	150	DI	48.768	39,954	533
SAS2706	HINCKS STREET	TALBOT STREET	CENTRE STREET	250	VC	70.104	65,818	878
SAS2707	MANOR ROAD	HIGHVIEW DRIVE	WELLINGTON STREET	200	PVC	56.3	46,124	615
SAS2708	MANOR ROAD	HIGHVIEW DRIVE	WELLINGTON STREET	200	PVC	74	60,625	808

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2710	MOORE STREET	CENTRE STREET	AMELIA STREET	200	PVC	55	45,059	601
SAS2711	PEACH TREE BOULEVARD	ELM STREET	CHERRY BLOSSUM LANE	200	PVC	88.5	72,505	967
SAS2712	PEACH TREE BOULEVARD	CHERRY BLOSSUM LANE	PEAR TREE AVENUE	200	PVC	94.2	77,174	1,029
SAS2713	PEACH TREE BOULEVARD	PEAR TREE AVENUE	BRIDLE PATH	200	PVC	59.5	48,746	650
SAS2714	NULL	NULL	NULL	200	PVC	14.5	11,879	158
SAS2715	CHERRY BLOSSUM LANE	PEACH TREE BOULEVARD	WEST END	200	PVC	78	63,902	852
SAS2716	CHERRY BLOSSUM LANE	PEACH TREE BOULEVARD	WEST END	200	PVC	81	66,360	885
SAS2717	LAWRENCE AVENUE	HARVEST COURT	PEACH TREE BOULEVARD	200	PVC	68.3	55,955	746
SAS2718	LAWRENCE AVENUE	HARVEST COURT	PEACH TREE BOULEVARD	200	PVC	68.5	56,119	748
SAS2719	LAWRENCE AVENUE	MAJESTIC COURT	HARVEST COURT	200	PVC	95.8	78,485	1,046
SAS2720	LAWRENCE AVENUE	BUTLER DRIVE	MAJESTIC COURT	200	PVC	47.9	39,243	523
SAS2721	PEAR TREE AVENUE	PEACH TREE BOULEVARD	HONEY BEND	200	PVC	110	90,119	1,202
SAS2722	PEAR TREE AVENUE	PEACH TREE BOULEVARD	HONEY BEND	200	PVC	110	90,119	1,202
SAS2723	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	200	VC	15	12,289	164
SAS2724	PINE VALLEY DRIVE	PRIMROSE COURT	GREENWAY BOULEVARD	200	PVC	100.7	82,499	1,100
SAS2725	PINE VALLEY DRIVE	PRIMROSE COURT	GREENWAY BOULEVARD	300	PVC	92	91,877	1,225
SAS2726	PINE VALLEY DRIVE	DEERFIELD COURT	PRIMROSE COURT	300	PVC	108.3	108,155	1,442
SAS2727	PINE VALLEY DRIVE	WESTLAKE DRIVE	DEERFIELD COURT	300	PVC	67.7	67,609	901
SAS2728	PINE VALLEY DRIVE	ARROWWOOD LANE	WESTLAKE DRIVE	300	PVC	78.7	78,595	1,048
SAS2729	PINE VALLEY DRIVE	ARROWWOOD LANE	WESTLAKE DRIVE	300	PVC	71.2	71,105	948
SAS2730	AMBLESIDE DRIVE	PINE VALLEY DRIVE	WESTLAKE DRIVE	200	PVC	48.6	39,816	531
SAS2731	ARROWWOOD LANE	PINE VALLEY DRIVE	ALDERWOOD COURT	200	PVC	78	63,902	852
SAS2732	PINE VALLEY DRIVE	CIRCLEWOOD DRIVE	ARROWWOOD LANE	250	PVC	100	93,886	1,252
SAS2733	PINE VALLEY DRIVE	CIRCLEWOOD DRIVE	ARROWWOOD LANE	250	PVC	68.9	64,687	862
SAS2734	PINE VALLEY DRIVE	TAMARACK COURT	AMBLESIDE DRIVE	250	PVC	96.9	90,976	1,213
SAS2735	PINE VALLEY DRIVE	SUTHERLAND COURT	TAMARACK COURT	250	PVC	105.6	99,144	1,322
SAS2736	PINE VALLEY DRIVE	SUTHERLAND COURT	TAMARACK COURT	250	PVC	35	32,860	438
SAS2737	SUTHERLAND COURT	PINE VALLEY DRIVE	CITY LIMITS	200	PVC	32	26,216	350
SAS2738	TAMARACK COURT	PINE VALLEY DRIVE	WEST END	200	PVC	52.6	43,093	575
SAS2739	TAMARACK COURT	PINE VALLEY DRIVE	WEST END	200	PVC	30	24,578	328
SAS2740	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	200	PVC	58.5	47,927	639
SAS2741	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	200	PVC	54.7	44,814	598
SAS2742	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	200	PVC	77.9	63,820	851
SAS2743	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	200	PVC	61.3	50,221	670
SAS2744	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	200	PVC	72.4	59,314	791
SAS2745	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	200	PVC	37.39	30,632	408
SAS2746	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	200	PVC	37.9	31,050	414
SAS2747	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	200	PVC	59.6	48,828	651
SAS2748	EASEMENT	FARLEY PLACE	RAVINE	200	PVC	15.8	12,944	173
SAS2749	EASEMENT	FARLEY PLACE	RAVINE	200	PVC	53.8	44,076	588
SAS2750	EASEMENT	FARLEY PLACE	RAVINE	200	PVC	18.5	15,156	202
SAS2751	EASEMENT	FARLEY PLACE	RAVINE	200	PVC	80.7	66,114	882
SAS2752	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	375	PVC	94.42	97,117	1,295

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2753	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	375	PVC	110.5	113,656	1,515
SAS2754	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	375	PVC	100	102,856	1,371
SAS2755	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	375	PVC	100	102,856	1,371
SAS2756	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	375	PVC	94.48	97,178	1,296
SAS2757	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	375	PVC	100	102,856	1,371
SAS2758	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	375	PVC	90	92,570	1,234
SAS2759	OSPREY LANE	HUMMINGBIRD LANE	CUL-DE-SAC	200	PVC	105.1	86,104	1,148
SAS2760	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	200	PVC	66.4	54,399	725
SAS2761	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	375	PVC	19.7	20,263	270
SAS2762	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	375	PVC	33.9	34,868	465
SAS2763	OSPREY LANE	HUMMINGBIRD LANE	CUL-DE-SAC	200	PVC	110	90,119	1,202
SAS2764	OSPREY LANE	HUMMINGBIRD LANE	CUL-DE-SAC	200	PVC	29.7	24,332	324
SAS2765	HUMMINGBIRD LANE	MOURNING DOVE LANE	KINGFISHER COURT	200	PVC	90.8	74,389	992
SAS2766	HUMMINGBIRD LANE	KINGFISHER COURT	LAKE MARGARET TRAIL	200	PVC	65.2	53,416	712
SAS2767	KINGFISHER COURT	HUMMINGBIRD LANE	CUL-DE-SAC	200	PVC	67.4	55,218	736
SAS2768	KINGFISHER COURT	HUMMINGBIRD LANE	CUL-DE-SAC	200	PVC	53.4	43,748	583
SAS2769	HUMMINGBIRD LANE	MOURNING DOVE LANE	KINGFISHER COURT	200	PVC	25.7	21,055	281
SAS277	WELLINGTON STREET	LYDIA STREET	SMITH AVENUE	300	PVC	54.8	54,727	730
SAS2770	MAJESTIC COURT	LAWRENCE AVENUE	END	200	PVC	91.1	74,635	995
SAS2771	MAJESTIC COURT	LAWRENCE AVENUE	END	200	PVC	91.1	74,635	995
SAS2772	HARVEST COURT	LAWRENCE AVENUE	END	200	PVC	39.5	32,361	431
SAS2773	HARVEST COURT	LAWRENCE AVENUE	END	200	PVC	57.6	47,189	629
SAS2774	HARVEST COURT	LAWRENCE AVENUE	END	200	PVC	67	54,890	732
SAS2775	HARVEST COURT	LAWRENCE AVENUE	END	200	PVC	86.7	71,030	947
SAS2776	MAJESTIC COURT	LAWRENCE AVENUE	END	200	PVC	40.2	32,934	439
SAS2777	PEACH TREE BOULEVARD	BRIDLE PATH	CIDER MILL LANE	200	PVC	84.4	69,146	922
SAS2778	PEACH TREE BOULEVARD	CIDER MILL LANE	MITCHELL HEPBURN PUBLIC SCHOOL	200	PVC	100.9	82,663	1,102
SAS2779	PEACH TREE BOULEVARD	CIDER MILL LANE	MITCHELL HEPBURN PUBLIC SCHOOL	200	PVC	57.8	47,353	631
SAS278	ROSS STREET	MCINTYRE STREET	FOREST AVENUE	375	VC	35.3	36,308	484
SAS2780	PEACH TREE BOULEVARD	MITCHELL HEPBURN PUBLIC SCHOOL	RAVEN AVENUE	200	PVC	66.3	54,317	724
SAS2781	RAVEN AVENUE	NOBLE LANE	PEACH TREE BOULEVARD	200	PVC	56.4	46,206	616
SAS2782	RAVEN AVENUE	NOBLE LANE	PEACH TREE BOULEVARD	200	PVC	106.7	87,415	1,166
SAS2783	RAVEN AVENUE	PENHALE AVENUE	NOBLE LANE	200	PVC	47.5	38,915	519
SAS2784	NOBLE LANE	RAVEN AVENUE	SOUTH END	200	PVC	92.3	75,618	1,008
SAS2785	PEACH TREE BOULEVARD	PEAR TREE AVENUE	BRIDLE PATH	200	PVC	35.7	29,248	390
SAS2786	ELM STREET	PEACH TREE BOULEVARD	ELMWOOD AVENUE	450	PVC	92.3	97,696	1,303
SAS2787	ELM STREET	PEACH TREE BOULEVARD	ELMWOOD AVENUE	450	PVC	92.3	97,696	1,303
SAS2789	ELM STREET	ELMWOOD AVENUE	BAILEY AVENUE	450	PVC	58.8	62,237	830
SAS2790	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	200	PVC	80.9	66,278	884
SAS2791	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	200	PVC	34.9	28,592	381
SAS2792	WESTLAKE DRIVE	AMBLESIDE DRIVE	AMBLESIDE DRIVE	200	PVC	89.4	73,242	977
SAS2793	WESTLAKE DRIVE	AMBLESIDE DRIVE	AMBLESIDE DRIVE	200	PVC	90.3	73,979	986
SAS2794	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	200	PVC	46	37,686	502

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2795	NULL	NULL	NULL	200	PVC	45	36,867	492
SAS2796	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	200	PVC	23.2	19,007	253
SAS2797	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	200	PVC	54.6	44,732	596
SAS2798	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	200	PVC	44.6	36,539	487
SAS2799	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	200	PVC	44.7	36,621	488
SAS28	VANIER PLACE	KER STREET	LEGER AVENUE	200	AC	91.4	74,880	998
SAS2800	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	200	PVC	69.5	56,939	759
SAS2801	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	200	PVC	48.2	39,488	527
SAS2802	ALDERWOOD COURT	ARROWWOOD LANE	CUL-DE-SAC	200	PVC	40.3	33,016	440
SAS2803	ALDERWOOD COURT	ARROWWOOD LANE	CUL-DE-SAC	200	PVC	48.4	39,652	529
SAS2804	ALDERWOOD COURT	ARROWWOOD LANE	CUL-DE-SAC	200	PVC	49.6	40,635	542
SAS2805	PRIMROSE COURT	PINE VALLEY DRIVE	END	200	PVC	55.2	45,223	603
SAS2806	NOBLE LANE	SOUTH END	EAST END	200	PVC	70.5	57,758	770
SAS2807	NOBLE LANE	SOUTH END	EAST END	200	PVC	64.8	53,088	708
SAS2808	LAKE MARGARET TRAIL	OSPREY LANE	HUMMINGBIRD LANE	200	PVC	89.2	73,078	974
SAS2809	LAKE MARGARET TRAIL	OSPREY LANE	HUMMINGBIRD LANE	200	PVC	83.9	68,736	916
SAS2810	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	250	PVC	102.9	96,609	1,288
SAS2811	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	250	PVC	101.1	94,919	1,266
SAS2812	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	250	PVC	90.1	84,591	1,128
SAS2813	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	250	PVC	66.9	62,810	837
SAS2814	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	250	PVC	58.9	55,299	737
SAS2815	WABBUN STREET	ROSS STREET	EAST END	200	PVC	43.8	35,884	478
SAS2816	NULL	NULL	NULL	200	PVC	40.31	33,024	440
SAS2817	AMBLESIDE DRIVE	PINE VALLEY DRIVE	WESTLAKE DRIVE	200	PVC	66.9	54,808	731
SAS2818	MANITOBA STREET	KAINS STREET	EDWARD STREET	300	PVC	2.3	2,297	31
SAS2819	MANITOBA STREET	KAINS STREET	EDWARD STREET	300	PVC	38	37,949	506
SAS2820	EASEMENT	OMEMEE STREET	ATHLETIC PARK	250	PVC	99.6	93,510	1,247
SAS2821	EASEMENT	OMEMEE STREET	ATHLETIC PARK	250	PVC	41.4	38,869	518
SAS2822	EASEMENT	OMEMEE STREET	ATHLETIC PARK	250	PVC	30	28,166	376
SAS2823	EASEMENT	OMEMEE STREET	ATHLETIC PARK	250	PVC	31.2	29,292	391
SAS2824	EASEMENT	OMEMEE STREET	ATHLETIC PARK	250	PVC	74	69,476	926
SAS2825	BRITTON DRIVE	REDAN STREET	SOUTH END	200	PVC	6	4,916	66
SAS2826	BRITTON DRIVE	REDAN STREET	SOUTH END	200	PVC	50.4	41,291	551
SAS2827	WELLINGTON STREET	HUNTINGTON TERRACE	FAIRVIEW AVENUE	300	PVC	77.8	77,696	1,036
SAS2828	WELLINGTON STREET	FIRST AVENUE	TALEQUAH STREET	375	PVC	24.7	25,405	339
SAS2829	MARGARET STREET	PRINCE ALBERT STREET	SOUTH END	200	PVC	32	26,216	350
SAS2830	RAVINE	ELGIN STREET	SUNSET DRIVE	975	CO	13.4	22,998	307
SAS2831	RAVINE	ELGIN STREET	SUNSET DRIVE	1200	CO	10	19,854	265
SAS2832	RAVINE	ELGIN STREET	SUNSET DRIVE	1200	CO	67.7	134,409	1,792
SAS2833	RAVINE	ELGIN STREET	SUNSET DRIVE	1200	CO	56.7	112,570	1,501
SAS2834	RAVINE	ELGIN STREET	SUNSET DRIVE	1200	CO	32.7	64,921	866
SAS2835	RAVINE	ELGIN STREET	SUNSET DRIVE	975	CO	5.5	9,439	126
SAS2836	FRISCH STREET	JOYCE STREET	DANIEL STREET	200	VC	105.2	86,186	1,149
SAS2837	JOYCE STREET	WOODWORTH AVENUE	FRISCH STREET	200	VC	105.2	86,186	1,149
SAS2838	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	OAKMONT STREET	200	PVC	55	45,059	601
SAS2839	SHAW VALLEY DRIVE	OAKMONT STREET	PEBBLE BEACH COURT	200	PVC	44.7	36,621	488
SAS284	ERINLEA DRIVE	CHESTNUT STREET	IDSARDI AVENUE	200	VC	61	49,975	666
SAS2840	SHAW VALLEY DRIVE	OAKMONT STREET	PEBBLE BEACH COURT	200	PVC	85.6	70,129	935

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2841	SHAW VALLEY DRIVE	PEBBLE BEACH COURT	OLD COURSE ROAD	200	PVC	52.2	42,765	570
SAS2842	SHAW VALLEY DRIVE	PEBBLE BEACH COURT	OLD COURSE ROAD	200	PVC	52.2	42,765	570
SAS2843	SHAW VALLEY DRIVE	OLD COURSE ROAD	END	200	PVC	118.5	97,082	1,294
SAS2844	PEBBLE BEACH COURT	CARNOUSTIE COURT	END	200	PVC	44.9	36,785	490
SAS2845	PEBBLE BEACH COURT	CARNOUSTIE COURT	END	200	PVC	49.6	40,635	542
SAS2846	PEBBLE BEACH COURT	CARNOUSTIE COURT	SHAW VALLEY DRIVE	200	PVC	101.4	83,073	1,108
SAS2847	CARNOUSTIE COURT	PEBBLE BEACH COURT	END	200	PVC	54.3	44,486	593
SAS2848	OLD COURSE ROAD	VALDERRAMA LANE	ROYAL DORNOCH DRIVE	200	PVC	90.2	73,897	985
SAS2849	OLD COURSE ROAD	VALDERRAMA LANE	ROYAL DORNOCH DRIVE	200	PVC	49.4	40,471	540
SAS285	IDSARDI AVENUE	ERINLEA DRIVE	MANOR ROAD	200	VC	83.8	68,654	915
SAS2850	OLD COURSE ROAD	VALDERRAMA LANE	ROYAL DORNOCH DRIVE	200	PVC	40.7	33,344	445
SAS2851	OLD COURSE ROAD	SHAW VALLEY DRIVE	VALDERRAMA LANE	200	PVC	95.6	78,321	1,044
SAS2852	PEBBLE BEACH COURT	CARNOUSTIE COURT	END	200	PVC	10	8,193	109
SAS2853	EASEMENT	PEBBLE BEACH COURT	OLD COURSE ROAD	200	PVC	61.8	50,630	675
SAS2854	EASEMENT	PEBBLE BEACH COURT	OLD COURSE ROAD	200	PVC	102.2	83,728	1,116
SAS2855	SHAW VALLEY DRIVE	OLD COURSE ROAD	END	200	PVC	25	20,482	273
SAS2856	SHAW VALLEY DRIVE	PEBBLE BEACH COURT	OLD COURSE ROAD	250	PVC	392	368,033	4,907
SAS2856	SHAW VALLEY DRIVE	OAKMONT STREET	PEBBLE BEACH COURT	250	PVC	392	368,033	4,907
SAS2856	SHAW VALLEY DRIVE	OLD COURSE ROAD	END	250	PVC	392	368,033	4,907
SAS2857	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	200	PVC	62.4	51,122	682
SAS2858	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	200	PVC	61.7	50,548	674
SAS2859	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	200	PVC	71.5	58,577	781
SAS286	ERINLEA DRIVE	IDSARDI AVENUE	CRESTWOOD COURT	200	VC	83.5	68,408	912
SAS2860	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	200	PVC	15.5	12,699	169
SAS2861	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	200	PVC	74.9	61,363	818
SAS2862	CARDINAL COURT	AMBLESIDE DRIVE	END	200	PVC	66.3	54,317	724
SAS2863	CARDINAL COURT	AMBLESIDE DRIVE	END	200	PVC	30.5	24,987	333
SAS2864	AMBLESIDE DRIVE	CARDINAL COURT	WESTLAKE DRIVE	200	PVC	60.7	49,729	663
SAS2865	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	200	PVC	28.7	23,513	314
SAS2866	NULL	NULL	NULL	375	CO	40.49	41,646	555
SAS2867	NULL	NULL	NULL	375	CO	81.85	84,188	1,123
SAS2868	TALBOT STREET	FIRST AVENUE	PARK AVENUE	450	VC	22.89	24,228	323
SAS287	CRESTWOOD COURT	ERINLEA DRIVE	EAST END	200	VC	61	49,975	666
SAS288	CRESTWOOD COURT	ERINLEA DRIVE	EAST END	200	VC	62.6	51,286	684
SAS289	ERINLEA DRIVE	CRESTWOOD COURT	MANOR ROAD	200	VC	82.9	67,917	906
SAS29	VANIER PLACE	KER STREET	LEGER AVENUE	250	AC	91.4	85,812	1,144
SAS290	ERINLEA DRIVE	CRESTWOOD COURT	MANOR ROAD	200	VC	42.2	34,573	461
SAS2909	WELLINGTON STREET	ELGIN STREET	HINCKS STREET	375	PVC	102.8	105,736	1,410
SAS291	MANOR ROAD	IDSARDI AVENUE	ERINLEA DRIVE	200	VC	71.8	58,823	784
SAS2910	WELLINGTON STREET	SOUTHWICK STREET	PRINCESS AVENUE	375	PVC	79	81,256	1,083
SAS2911	WELLINGTON STREET	SOUTHWICK STREET	PRINCESS AVENUE	375	PVC	80	82,285	1,097
SAS2913	PEACH TREE BOULEVARD	RAVEN AVENUE	RUSSET LANE	200	PVC	73.8	60,461	806
SAS2914	PEACH TREE BOULEVARD	RUSSET LANE	EMPIRE PARKWAY	200	PVC	39.6	32,443	433
SAS2917	PRINCESS AVENUE	WELLINGTON STREET	GLADSTONE AVENUE	200	PVC	93.8	76,847	1,025
SAS2918	EASEMENT	FARLEY PLACE	RAVINE	200	PVC	52.9	43,339	578
SAS2919	EASEMENT	FARLEY PLACE	RAVINE	200	PVC	22.4	18,351	245

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS292	MANOR ROAD	IDSARDI AVENUE	ERINLEA DRIVE	200	VC	69.3	56,775	757
SAS2920	EASEMENT	FARLEY PLACE	RAVINE	200	PVC	6.6	5,407	72
SAS293	ERINLEA DRIVE	IDSARDI AVENUE	CRESTWOOD COURT	200	VC	62.2	50,958	679
SAS2931	EAGLE STREET	MONDAMIN STREET	ST. CATHARINE STREET	250	VC	5.6	5,258	70
SAS2938	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	200	PVC	12.5	10,241	137
SAS2939	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	250	PVC	108.3	101,679	1,356
SAS294	ERINLEA DRIVE	IDSARDI AVENUE	CRESTWOOD COURT	200	VC	60	49,156	655
SAS2940	TANAGER PLACE	HICKORY LANE	END	200	PVC	122.4	100,277	1,337
SAS2941	TANAGER PLACE	HICKORY LANE	END	200	PVC	46	37,686	502
SAS2942	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	250	PVC	16	15,022	200
SAS295	MANOR ROAD	ERINLEA DRIVE	HIGHVIEW DRIVE	200	VC	43.6	35,720	476
SAS296	MANOR ROAD	ERINLEA DRIVE	HIGHVIEW DRIVE	200	VC	46.6	38,178	509
SAS297	HIGHVIEW DRIVE	MANOR ROAD	NEAL AVENUE	200	VC	43	35,228	470
SAS2972	MOORE STREET	TALBOT STREET	CENTRE STREET	200	PVC	94.4	77,338	1,031
SAS2973	MOORE STREET	TALBOT STREET	CENTRE STREET	200	PVC	12	9,831	131
SAS2974	BRIDLE PATH	PEACH TREE BOULEVARD	END	200	PVC	97.1	79,550	1,061
SAS2975	BRIDLE PATH	PEACH TREE BOULEVARD	END	200	PVC	87	71,276	950
SAS2976	BRIDLE PATH	PEACH TREE BOULEVARD	END	200	PVC	73.9	60,543	807
SAS2977	DEERFIELD COURT	PINE VALLEY DRIVE	END	200	PVC	22.9	18,761	250
SAS2978	DEERFIELD COURT	PINE VALLEY DRIVE	END	200	PVC	59	48,336	644
SAS2979	DEERFIELD COURT	PINE VALLEY DRIVE	END	200	PVC	78	63,902	852
SAS298	MANOR ROAD	HIGHVIEW DRIVE	ELM STREET	200	VC	91.4	74,880	998
SAS2980	DEERFIELD COURT	PINE VALLEY DRIVE	END	200	PVC	90.6	74,225	990
SAS2981	DEERFIELD COURT	PINE VALLEY DRIVE	END	200	PVC	66.9	54,808	731
SAS2985	EMPIRE PARKWAY	PEACH TREE BOULEVARD	END	200	PVC	88.3	72,341	965
SAS2986	EMPIRE PARKWAY	PEACH TREE BOULEVARD	END	200	PVC	99.3	81,353	1,085
SAS2987	PEACH TREE BOULEVARD	EMPIRE PARKWAY	CAROLINA CRESCENT	200	PVC	81.6	66,852	891
SAS2988	PEACH TREE BOULEVARD	EMPIRE PARKWAY	CAROLINA CRESCENT	200	PVC	110.5	90,528	1,207
SAS2989	OAKMONT STREET	SHAW VALLEY DRIVE	TURNBERRY COURT	200	PVC	103.6	84,875	1,132
SAS299	MANOR ROAD	HIGHVIEW DRIVE	ELM STREET	200	VC	91.4	74,880	998
SAS2990	OAKMONT STREET	SHAW VALLEY DRIVE	TURNBERRY COURT	200	PVC	69	56,529	754
SAS2999	EAST PEARL	ELYSIAN STREET	NORTH END	200	PVC	62.57	51,261	683
SAS30	VANIER PLACE	KER STREET	LEGER AVENUE	250	AC	82.6	77,550	1,034
SAS300	MANOR ROAD	HIGHVIEW DRIVE	ELM STREET	200	VC	90.5	74,143	989
SAS3000	NULL	NULL	NULL	200	PVC	64.67	52,982	706
SAS3001	NULL	NULL	NULL	200	PVC	7.3	5,981	80
SAS3002	NULL	NULL	NULL	200	PVC	50.1	41,045	547
SAS3003	NULL	NULL	NULL	200	PVC	52.9	43,339	578
SAS3004	NULL	NULL	NULL	200	PVC	11.6	9,503	127
SAS3005	NULL	NULL	NULL	200	PVC	43	35,228	470
SAS3006	JONAS STREET	ROSS STREET	LYDIA STREET	200	PVC	21.9	17,942	239
SAS3007	ROSS STREET	JONAS STREET	AMELIA STREET	300	PVC	30.2	30,160	402
SAS3008	ROSS STREET	CENTRE STREET	JONAS STREET	200	PVC	105.1	86,104	1,148
SAS3009	CENTRE STREET	MILL STREET	ROSS STREET	200	PVC	37	30,313	404
SAS301	MANOR ROAD	HIGHVIEW DRIVE	ELM STREET	200	VC	65.1	53,334	711
SAS3010	REGENT STREET	EAST AVENUE	EAST END	200	PVC	54	44,240	590

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS3011	REGENT STREET	EAST AVENUE	EAST END	200	PVC	54	44,240	590
SAS3016	ERIE STREET	SMITH AVENUE	FIFTH AVENUE	300	PVC	8	7,989	107
SAS3017	ERIE STREET	SMITH AVENUE	FIFTH AVENUE	200	DI	14.5	11,879	158
SAS3018	ERIE STREET	ROSS STREET	SMITH AVENUE	200	PVC	84.7	69,391	925
SAS3019	ERIE STREET	ROSS STREET	SMITH AVENUE	200	PVC	80	65,541	874
SAS302	HIGHVIEW DRIVE	MANOR ROAD	VANBUSKIRK DRIVE	200	VC	87.2	71,439	953
SAS3020	ERIE STREET	ROSS STREET	SMITH AVENUE	200	PVC	72.4	59,314	791
SAS3028	INKERMAN STREET	EDWARD STREET	HIGHWAY #3 BYPASS	200	PVC	51.8	42,438	566
SAS3029	COULTER AVENUE	WELLINGTON STREET	BODKIN STREET	250	PVC	81.1	76,142	1,015
SAS303	VANBUSKIRK DRIVE	MCCULLY DRIVE	MCCULLY DRIVE	200	VC	91.4	74,880	998
SAS3030	CASO CROSSING	WELLINGTON STREET	TALBOT STREET	200	PVC	28.8	23,595	315
SAS3031	CASO CROSSING	WELLINGTON STREET	TALBOT STREET	200	PVC	42.2	34,573	461
SAS3032	CASO CROSSING	WELLINGTON STREET	TALBOT STREET	200	PVC	48.8	39,980	533
SAS3033	TALBOT STREET	STANLEY STREET	WILLIAM STREET	450	PVC	89.5	94,732	1,263
SAS3034	TALBOT STREET	WILLIAM STREET	QUEEN STREET	450	PVC	91	96,320	1,284
SAS3035	TALBOT STREET	WILLIAM STREET	QUEEN STREET	450	PVC	6.8	7,198	96
SAS3036	TALBOT STREET	METCALFE STREET	PEARL STREET	450	PVC	92.6	98,013	1,307
SAS3037	TALBOT STREET	METCALFE STREET	PEARL STREET	450	PVC	25.9	27,414	366
SAS3038	METCALFE STREET	TALBOT STREET	CENTRE STREET	200	PVC	40	32,770	437
SAS3039	ALEXANDRIA AVENUE	REDAN STREET	MALAKOFF STREET	200	PVC	98.8	80,943	1,079
SAS3040	ALEXANDRIA AVENUE	REDAN STREET	MALAKOFF STREET	200	PVC	100	81,926	1,092
SAS3041	ALEXANDRIA AVENUE	TALBOT STREET	MALAKOFF STREET	200	PVC	87.5	71,685	956
SAS3042	ALEXANDRIA AVENUE	TALBOT STREET	MALAKOFF STREET	200	PVC	99.6	81,598	1,088
SAS3043	QUEEN STREET	CENTRE STREET	ST. ANNE'S PLACE	200	PVC	67	54,890	732
SAS3044	QUEEN STREET	CENTRE STREET	ST. ANNE'S PLACE	200	PVC	67	54,890	732
SAS3045	QUEEN STREET	ST. ANNE'S PLACE	WELLINGTON STREET	200	PVC	68	55,710	743
SAS3046	QUEEN STREET	ST. ANNE'S PLACE	WELLINGTON STREET	200	PVC	56	45,879	612
SAS3047	GLADSTONE AVENUE	ELGIN STREET	HINCKS STREET	200	PVC	100.4	82,254	1,097
SAS3048	GLADSTONE AVENUE	HINCKS STREET	SOUTHWICK STREET	200	PVC	77.5	63,493	847
SAS3049	GLADSTONE AVENUE	HINCKS STREET	SOUTHWICK STREET	200	PVC	68	55,710	743
SAS305	HIGHVIEW DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	250	VC	94.9	89,098	1,188
SAS3050	GLADSTONE AVENUE	SOUTHWICK STREET	PRINCESS AVENUE	200	PVC	102	83,565	1,114
SAS3051	GLADSTONE AVENUE	SOUTHWICK STREET	PRINCESS AVENUE	200	PVC	96.5	79,059	1,054
SAS3052	GLADSTONE AVENUE	SOUTHWICK STREET	PRINCESS AVENUE	250	PVC	15.4	14,458	193
SAS3053	HINCKS STREET	WELLINGTON STREET	GLADSTONE AVENUE	200	PVC	16.6	13,600	181
SAS3054	HINCKS STREET	GLADSTONE AVENUE	ROSEBERY PLACE	200	PVC	31.7	25,971	346
SAS3055	SOUTHWICK STREET	WELLINGTON STREET	GLADSTONE AVENUE	200	PVC	15	12,289	164
SAS3056	SOUTHWICK STREET	GLADSTONE AVENUE	ROSEBERY PLACE	200	PVC	22.1	18,106	241
SAS3057	FIRST AVENUE	REDAN STREET	TALBOT STREET	750	CO	40	54,298	724
SAS3058	FIRST AVENUE	TALBOT STREET	STEELE STREET	600	CO	20	22,963	306
SAS3059	FIRST AVENUE	TALBOT STREET	STEELE STREET	750	CO	38	51,583	688
SAS306	EASEMENT	ERINLEA DRIVE	HIGHVIEW DRIVE	200	VC	40.2	32,934	439
SAS3060	FIRST AVENUE	TALBOT STREET	STEELE STREET	750	CO	110	149,321	1,991
SAS3061	FIRST AVENUE	TALBOT STREET	STEELE STREET	750	CO	110	149,321	1,991
SAS3062	FIRST AVENUE	TALBOT STREET	STEELE STREET	750	CO	75.4	102,352	1,365
SAS3063	FIRST AVENUE	TALBOT STREET	STEELE STREET	750	CO	5.5	7,466	100
SAS3064	STANLEY STREET	MARGARET STREET	VICTORIA STREET	200	PVC	10	8,193	109
SAS3065	STANLEY STREET	GLADSTONE AVENUE	DRAKE STREET	200	PVC	74.1	60,707	809

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS3066	DRAKE STREET	STANLEY STREET	ISABEL STREET	200	PVC	5	4,096	55
SAS3067	STANLEY STREET	DRAKE STREET	MARGARET STREET	200	PVC	107.1	87,743	1,170
SAS3068	STANLEY STREET	VICTORIA STREET	FARLEY PLACE	200	PVC	10	8,193	109
SAS3069	PEAR TREE AVENUE	HONEY BEND	ASHBERRY PLACE	250	PVC	90	84,497	1,127
SAS307	ERINLEA DRIVE	CRESTWOOD COURT	MANOR ROAD	200	VC	46.2	37,850	505
SAS3070	PEAR TREE AVENUE	PEACH TREE BOULEVARD	HONEY BEND	200	PVC	75.4	61,772	824
SAS3071	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	250	PVC	68	63,842	851
SAS3072	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	200	PVC	49	40,144	535
SAS3073	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	250	PVC	103.9	97,548	1,301
SAS3074	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	250	PVC	100	93,886	1,252
SAS3075	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	200	PVC	100	81,926	1,092
SAS3076	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	250	PVC	100	93,886	1,252
SAS3077	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	250	PVC	100	93,886	1,252
SAS3078	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	200	PVC	100	81,926	1,092
SAS3079	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	250	PVC	100	93,886	1,252
SAS308	EASEMENT	ERINLEA DRIVE	HIGHVIEW DRIVE	200	VC	48	39,324	524
SAS3080	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	250	PVC	100	93,886	1,252
SAS3081	PEACH TREE BOULEVARD	CAROLINA CRESCENT	FOX HOLLOW COURT	250	PVC	44.7	41,967	560
SAS3082	PEACH TREE BOULEVARD	CAROLINA CRESCENT	FOX HOLLOW COURT	250	PVC	43	40,371	538
SAS3083	PEACH TREE BOULEVARD	CAROLINA CRESCENT	CAROLINA CRESCENT	250	PVC	39	36,616	488
SAS3084	PEACH TREE BOULEVARD	CAROLINA CRESCENT	CAROLINA CRESCENT	250	PVC	59.8	56,144	749
SAS3085	CAROLINA CRESCENT	PEACH TREE BOULEVARD	ARBOR TRAIL	200	PVC	18.4	15,074	201
SAS3086	CAROLINA CRESCENT	PEACH TREE BOULEVARD	ARBOR TRAIL	200	PVC	34.3	28,101	375
SAS3087	CAROLINA CRESCENT	PEACH TREE BOULEVARD	ARBOR TRAIL	200	PVC	31.7	25,971	346
SAS3088	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	200	PVC	54.2	44,404	592
SAS3089	CAROLINA CRESCENT	PEACH TREE BOULEVARD	ARBOR TRAIL	200	PVC	49.2	40,308	537
SAS309	HIGHVIEW DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	250	VC	63.9	59,993	800
SAS3090	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	200	PVC	111.1	91,020	1,214
SAS3091	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	200	PVC	88.1	72,177	962
SAS3092	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	200	PVC	82.4	67,507	900
SAS3093	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	200	PVC	57.9	47,435	632
SAS3094	ARBOR TRAIL	CAROLINA CRESCENT	END	200	PVC	24	19,662	262
SAS3095	ARBOR TRAIL	CAROLINA CRESCENT	END	200	PVC	68.1	55,792	744
SAS3096	ARBOR TRAIL	CAROLINA CRESCENT	END	200	PVC	36.1	29,575	394
SAS3097	ARBOR TRAIL	CAROLINA CRESCENT	END	200	PVC	67.1	54,972	733
SAS3098	ARBOR TRAIL	CAROLINA CRESCENT	END	200	PVC	42.4	34,737	463
SAS3099	OAKMONT STREET	TURNBERRY COURT	DORAL COURT	200	PVC	98.3	80,533	1,074
SAS31	RAVEN AVENUE	FAIRVIEW AVENUE	DAVID DRIVE	200	AC	85.2	69,801	931
SAS310	VANBUSKIRK DRIVE	GUSTIN PLACE	HIGHVIEW DRIVE	250	VC	48.8	45,816	611
SAS3100	OAKMONT STREET	DORAL COURT	GLENWOOD AVENUE	200	PVC	90	73,733	983
SAS3101	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	200	PVC	53.8	44,076	588
SAS3102	DORAL COURT	ST. ANDREWS DRIVE	END	200	PVC	8	6,554	87
SAS3103	DORAL COURT	ST. ANDREWS DRIVE	END	200	PVC	7	5,735	76
SAS3104	DORAL COURT	ST. ANDREWS DRIVE	END	200	PVC	66.3	54,317	724

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS3105	DORAL COURT	OAKMONT STREET	ST. ANDREWS DRIVE	200	PVC	90	73,733	983
SAS3106	GLENWOOD AVENUE	TYANDAGA STREET	LYNDALE STREET	200	PVC	19.5	15,976	213
SAS3107	GLENWOOD AVENUE	TYANDAGA STREET	LYNDALE STREET	200	PVC	51	41,782	557
SAS3108	GLENWOOD AVENUE	OAKMONT STREET	TYANDAGA STREET	200	PVC	100	81,926	1,092
SAS3109	GLENWOOD AVENUE	OAKMONT STREET	END	200	PVC	48	39,324	524
SAS311	CHESTNUT STREET	ERINLEA DRIVE	STOKES ROAD	200	VC	67.7	55,464	740
SAS3111	NULL	NULL	NULL	375	VC	34	34,971	466
SAS3112	CHURCHILL CRESCENT	DIEPPE DRIVE	FIFTH AVENUE	200	PVC	72.7	59,560	794
SAS3113	DIEPPE DRIVE	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	PVC	19	15,566	208
SAS3115	DIEPPE DRIVE	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	PVC	14	11,470	153
SAS3116	DUNKIRK DRIVE	CHURCHILL CRESCENT	MEEHAN STREET	200	PVC	17	13,927	186
SAS3117	DUNKIRK DRIVE	DIEPPE DRIVE	CHURCHILL CRESCENT	200	PVC	20	16,385	218
SAS3118	CHURCHILL CRESCENT	MEEHAN STREET	DUNKIRK DRIVE	200	PVC	75.88	62,165	829
SAS3119	WELLINGTON STREET	HEDGES COURT	CENTENNIAL AVENUE	150	PVC	112	91,757	1,223
SAS312	IDSARDI AVENUE	ERINLEA DRIVE	MANOR ROAD	200	VC	56.1	45,960	613
SAS3120	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	200	PVC	76	62,264	830
SAS3121	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	200	PVC	87.1	71,358	951
SAS3122	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	200	PVC	87.5	71,685	956
SAS3123	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	200	PVC	81.4	66,688	889
SAS3124	BURWELL ROAD	EDWARD STREET	TALBOT STREET	300	CO	124	123,834	1,651
SAS3125	INKERMAN STREET	EDWARD STREET	HIGHWAY #3 BYPASS	200	PVC	51.8	42,438	566
SAS3126	TALBOT STREET	PEARL STREET	EAST STREET	450	PVC	115.75	122,517	1,634
SAS3127	TALBOT STREET	EAST STREET	ELGIN STREET	450	PVC	36.55	38,687	516
SAS3128	ELGIN STREET	TALBOT STREET	CENTRE STREET	525	PVC	12.16	13,598	181
SAS3129	TALBOT STREET	MARY STREET	SOUTHWICK STREET	450	PVC	25.78	27,287	364
SAS313	IDSARDI AVENUE	ERINLEA DRIVE	MANOR ROAD	200	VC	57	46,698	623
SAS3130	TALBOT STREET	HINCKS STREET	MARY STREET	450	PVC	56.62	59,930	799
SAS3131	TALBOT STREET	ELGIN STREET	HINCKS STREET	450	PVC	101.18	107,095	1,428
SAS3132	EAST STREET	TALBOT STREET	CURTIS STREET	250	PVC	23.5	22,063	294
SAS3133	MARY STREET	TALBOT STREET	CURTIS STREET	250	PVC	18.4	17,275	230
SAS3134	SUNSET DRIVE	STPH	KAREN STREET	300	PVC	355.4	354,924	4,732
SAS3135	MELROSE COURT	PEACH TREE BOULEVARD	END	200	PVC	80.4	65,869	878
SAS3136	MELROSE COURT	PEACH TREE BOULEVARD	END	200	PVC	76.6	62,755	837
SAS3137	PEACH TREE BOULEVARD	CAROLINA CRESCENT	FOX HOLLOW COURT	200	PVC	87.9	72,013	960
SAS3138	PEACH TREE BOULEVARD	FOX HOLLOW COURT	CORTLAND TERRACE	250	PVC	95.4	89,567	1,194
SAS3139	BENJAMIN PARKWAY	SOUTHDALE LINE	MILLSTONE AVENUE	450	PVC	105.3	111,456	1,486
SAS314	MANOR ROAD	CHESTNUT STREET	IDSARDI AVENUE	200	VC	83.5	68,408	912
SAS3140	BENJAMIN PARKWAY	SOUTHDALE LINE	MILLSTONE AVENUE	450	PVC	78	82,560	1,101
SAS3141	BENJAMIN PARKWAY	MILLSTONE AVENUE	BIRCHALL LANE	375	PVC	44.6	45,874	612
SAS3142	BENJAMIN PARKWAY	MILLSTONE AVENUE	BIRCHALL LANE	375	PVC	47.6	48,959	653
SAS3143	BENJAMIN PARKWAY	BIRCHALL LANE	FOXTAIL LANE	375	PVC	84	86,399	1,152
SAS3144	BIRCHALL LANE	BENJAMIN PARKWAY	END	200	PVC	78.5	64,312	857
SAS3145	BIRCHALL LANE	BENJAMIN PARKWAY	END	200	PVC	65.4	53,580	714
SAS3146	BIRCHALL LANE	BENJAMIN PARKWAY	END	200	PVC	57.4	47,026	627
SAS3147	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	300	PVC	69.2	69,107	921
SAS3148	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	300	PVC	69.1	69,007	920

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS3149	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	300	PVC	109.9	109,753	1,463
SAS315	CHESTNUT STREET	STOKES ROAD	MANOR ROAD	200	VC	90.5	74,143	989
SAS3150	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	300	PVC	42.3	42,243	563
SAS3151	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	300	PVC	55.1	55,026	734
SAS3152	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	300	PVC	47.1	47,037	627
SAS3153	BENJAMIN PARKWAY	SOUTHDALE LINE	MILLSTONE AVENUE	450	PVC	68	71,975	960
SAS3154	SOUTHDALE LINE	SUNSET DRIVE	LAKE MARGARET TRAIL	250	PVC	77	72,292	964
SAS3155	FLORA STREET	KAINS STREET	BALDWIN STREET	250	PVC	99.3	93,229	1,243
SAS3156	FLORA STREET	KAINS STREET	BALDWIN STREET	250	PVC	95.1	89,286	1,190
SAS3157	FLORA STREET	KAINS STREET	BALDWIN STREET	250	PVC	36.6	34,362	458
SAS3158	FLORA STREET	KAINS STREET	BALDWIN STREET	250	PVC	60.9	57,177	762
SAS3159	BALDWIN STREET	FLORA STREET	HUGHES STREET	200	PVC	62.5	51,204	683
SAS316	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	200	VC	85.1	69,719	930
SAS3160	BALDWIN STREET	FLORA STREET	HUGHES STREET	200	PVC	63.1	51,695	689
SAS3161	ST. GEORGE STREET	SCOTT STREET	ELYSIAN STREET	200	PVC	73.4	60,134	802
SAS3162	ST. GEORGE STREET	SCOTT STREET	ELYSIAN STREET	200	PVC	75.1	61,526	820
SAS3163	ST. GEORGE STREET	ELYSIAN STREET	CORA STREET	200	PVC	98.4	80,615	1,075
SAS3164	ST. GEORGE STREET	CORA STREET	NORTH CITY LIMITS	200	PVC	64.6	52,924	706
SAS3165	ST. GEORGE STREET	CORA STREET	NORTH CITY LIMITS	200	PVC	56.3	46,124	615
SAS3166	NULL	NULL	NULL	200	PVC	47.9	39,243	523
SAS3167	NULL	NULL	NULL	250	PVC	23.9	22,439	299
SAS3168	ST. GEORGE STREET	CORA STREET	NORTH CITY LIMITS	400	PVC	390	412,799	5,504
SAS3168	ST. GEORGE STREET	SCOTT STREET	ELYSIAN STREET	400	PVC	390	412,799	5,504
SAS3168	ST. GEORGE STREET	ELYSIAN STREET	CORA STREET	400	PVC	390	412,799	5,504
SAS3169	NULL	NULL	NULL	250	PVC	21	19,716	263
SAS317	VANBUSKIRK DRIVE	MCCULLY DRIVE	MCCULLY DRIVE	200	VC	81.1	66,442	886
SAS3170	WEST PEARL STREET	ELYSIAN STREET	NORTH END	200	PVC	24.6	20,154	269
SAS3171	NULL	NULL	NULL	400	PVC	655	693,291	9,244
SAS3174	AMELIA STREET	MOORE STREET	ROSS STREET	200	PVC	66	54,071	721
SAS3177	FOX HOLLOW COURT	PEACH TREE BOULEVARD	END	200	PVC	106.4	87,169	1,162
SAS3178	FOX HOLLOW COURT	PEACH TREE BOULEVARD	END	200	PVC	107.8	88,316	1,178
SAS3179	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	200	PVC	110	90,119	1,202
SAS318	VANBUSKIRK DRIVE	MCCULLY DRIVE	MCCULLY DRIVE	200	VC	45.2	37,031	494
SAS3180	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	200	PVC	110	90,119	1,202
SAS3181	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	200	PVC	37.8	30,968	413
SAS3182	VALDERRAMA LANE	OLD COURSE ROAD	ROYAL DORNOCH DRIVE	200	PVC	90	73,733	983
SAS3183	VALDERRAMA LANE	OLD COURSE ROAD	ROYAL DORNOCH DRIVE	200	PVC	90	73,733	983
SAS3184	VALDERRAMA LANE	OLD COURSE ROAD	ROYAL DORNOCH DRIVE	200	PVC	90	73,733	983
SAS3185	ROYAL DORNOCH DRIVE	OLD COURSE ROAD	VALDERRAMA LANE	200	PVC	80.5	65,950	879
SAS3186	ROYAL DORNOCH DRIVE	VALDERRAMA LANE	MUIRFIELD DRIVE	200	PVC	26.2	21,465	286
SAS3187	ROYAL DORNOCH DRIVE	VALDERRAMA LANE	MUIRFIELD DRIVE	200	PVC	50.1	41,045	547
SAS3188	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	200	PVC	36.2	29,657	395
SAS3189	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	200	PVC	49.1	40,226	536
SAS319	VANBUSKIRK DRIVE	MCCULLY DRIVE	MCCULLY DRIVE	200	VC	72.8	59,642	795

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS3190	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	200	PVC	79.5	65,131	868
SAS3191	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	200	PVC	76.2	62,428	832
SAS3192	NULL	NULL	NULL	200	PVC	61	49,975	666
SAS3193	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	200	PVC	42.5	34,819	464
SAS3194	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	200	PVC	94.1	77,092	1,028
SAS3195	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	200	PVC	108.2	88,644	1,182
SAS3196	PEAR TREE AVENUE	ASHBERRY PLACE	AMBROSIA PATH	200	PVC	46.8	38,341	511
SAS3197	PEAR TREE AVENUE	ASHBERRY PLACE	AMBROSIA PATH	200	PVC	35.1	28,756	383
SAS3198	PEAR TREE AVENUE	AMBROSIA PATH	RENAISSANCE DRIVE	200	PVC	40.6	33,262	443
SAS3199	PEAR TREE AVENUE	AMBROSIA PATH	RENAISSANCE DRIVE	200	PVC	43.5	35,638	475
SAS320	VANBUSKIRK DRIVE	MCCULLY DRIVE	PAULSON COURT	200	VC	87.2	71,439	953
SAS3200	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	200	PVC	120.5	98,721	1,316
SAS3201	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	200	PVC	21.3	17,450	233
SAS3202	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	200	PVC	8	6,554	87
SAS3203	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	300	PVC	39.8	39,747	530
SAS3204	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	200	PVC	20	16,385	218
SAS3205	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	300	PVC	82.6	82,489	1,100
SAS3206	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	300	PVC	44.7	44,640	595
SAS3207	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	200	PVC	20	16,385	218
SAS3208	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	300	PVC	34.7	34,654	462
SAS3209	RENAISSANCE DRIVE	AUBURN DRIVE	HARLEQUIN COURT	250	PVC	98	92,008	1,227
SAS321	VANBUSKIRK DRIVE	MCCULLY DRIVE	PAULSON COURT	200	VC	61	49,975	666
SAS3210	RENAISSANCE DRIVE	OXFORD TERRACE	AUBURN DRIVE	300	PVC	87.3	87,183	1,162
SAS3211	RENAISSANCE DRIVE	PEAR TREE AVENUE	OXFORD TERRACE	300	PVC	47.9	47,836	638
SAS3212	OXFORD TERRACE	RENAISSANCE DRIVE	AUBURN DRIVE	200	PVC	95.1	77,912	1,039
SAS3213	OXFORD TERRACE	RENAISSANCE DRIVE	AUBURN DRIVE	200	PVC	64.5	52,842	705
SAS3214	OXFORD TERRACE	RENAISSANCE DRIVE	AUBURN DRIVE	200	PVC	59.6	48,828	651
SAS3215	OXFORD TERRACE	RENAISSANCE DRIVE	AUBURN DRIVE	200	PVC	26.2	21,465	286
SAS3216	AUBURN DRIVE	OXFORD TERRACE	CENTENNIAL AVENUE	200	PVC	48	39,324	524
SAS3217	AUBURN DRIVE	RENAISSANCE DRIVE	OXFORD TERRACE	200	PVC	73	59,806	797
SAS3218	AUBURN DRIVE	RENAISSANCE DRIVE	OXFORD TERRACE	200	PVC	65.2	53,416	712
SAS3219	STYLES DRIVE	SOUTHDALE LINE	WEIR CRESCENT	200	PVC	47.6	38,997	520
SAS322	VANBUSKIRK DRIVE	MCCULLY DRIVE	PAULSON COURT	200	VC	44.1	36,129	482
SAS3220	STYLES DRIVE	SOUTHDALE LINE	WEIR CRESCENT	200	PVC	56.2	46,042	614
SAS3221	STYLES DRIVE	WEIR CRESCENT	SUGAR BUSH PATH	200	PVC	99.2	81,271	1,084
SAS3222	STYLES DRIVE	SUGAR BUSH PATH	FOXTAIL LANE	200	PVC	54.8	44,895	599
SAS3223	STYLES DRIVE	SUGAR BUSH PATH	FOXTAIL LANE	200	PVC	53.5	43,830	584
SAS3224	STYLES DRIVE	FOXTAIL LANE	CLOVER CIRCLE	300	PVC	44	43,941	586
SAS3225	WEIR CRESCENT	STYLES DRIVE	STYLES DRIVE	200	PVC	108.7	89,054	1,187
SAS3226	SUGAR BUSH PATH	STYLES DRIVE	END	200	PVC	76.8	62,919	839
SAS3227	SUGAR BUSH PATH	STYLES DRIVE	END	200	PVC	76.9	63,001	840
SAS3228	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	300	PVC	39.9	39,847	531
SAS3229	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	300	PVC	51.8	51,731	690
SAS323	PAULSON COURT	VANBUSKIRK DRIVE	WEST END	300	VC	85	84,886	1,132
SAS3230	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	200	PVC	84.1	68,900	919
SAS3231	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	200	PVC	88.4	72,423	966

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS3232	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	200	PVC	9.2	7,537	100
SAS3233	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	200	PVC	93	76,191	1,016
SAS3234	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	END	200	PVC	86.7	71,030	947
SAS3235	WILLIAM STREET	TALBOT STREET	CENTRE STREET	200	PVC	66.74	54,677	729
SAS3236	WILLIAM STREET	TALBOT STREET	CENTRE STREET	200	PVC	11	9,012	120
SAS3237	ROSS STREET	AMELIA STREET	BARNES STREET	300	PVC	61.3	61,218	816
SAS3238	ROSS STREET	BARNES STREET	WELLINGTON STREET	300	PVC	70.6	70,505	940
SAS3239	MYRTLE STREET	ROSS STREET	SMITH AVENUE	200	PVC	42.3	34,655	462
SAS324	PAULSON COURT	VANBUSKIRK DRIVE	WEST END	300	VC	78.9	78,794	1,051
SAS3240	MYRTLE STREET	ROSS STREET	SMITH AVENUE	200	PVC	100	81,926	1,092
SAS3241	MYRTLE STREET	ROSS STREET	SMITH AVENUE	200	PVC	108.4	88,808	1,184
SAS3242	MYRTLE STREET	SMITH AVENUE	FIFTH AVENUE	200	PVC	103.4	84,711	1,129
SAS3243	MYRTLE STREET	FIFTH AVENUE	FOURTH AVENUE	200	PVC	98.4	80,615	1,075
SAS3244	MYRTLE STREET	FIFTH AVENUE	FOURTH AVENUE	200	PVC	86.6	70,948	946
SAS3245	MYRTLE STREET	FOURTH AVENUE	THIRD AVENUE	200	PVC	91.1	74,635	995
SAS3246	MYRTLE STREET	FOURTH AVENUE	THIRD AVENUE	200	PVC	98.9	81,025	1,080
SAS3247	MYRTLE STREET	THIRD AVENUE	EAST OF THIRD AVENUE	200	PVC	86.9	71,194	949
SAS3248	THIRD AVENUE	MYRTLE STREET	LOCUST STREET	200	PVC	16	13,108	175
SAS3249	SMITH AVENUE	FOREST AVENUE	MYRTLE STREET	200	PVC	13.7	11,224	150
SAS325	EASEMENT	FAIRVIEW AVENUE	PAULSON COURT	300	VC	72.1	72,003	960
SAS3250	MYRTLE STREET	THIRD AVENUE	EAST OF THIRD AVENUE	200	PVC	17	13,927	186
SAS3251	SOUTHWICK STREET	GLADSTONE AVENUE	ROSEBERY PLACE	200	PVC	66.4	54,399	725
SAS3252	SOUTHWICK STREET	WELLINGTON STREET	GLADSTONE AVENUE	200	PVC	56.1	45,960	613
SAS3253	HUGHES STREET	KAINS STREET	MARIAM STREET	200	PVC	102	83,565	1,114
SAS3254	HUGHES STREET	KAINS STREET	MARIAM STREET	200	PVC	100.5	82,336	1,098
SAS3255	HUGHES STREET	KAINS STREET	MARIAM STREET	200	PVC	39.7	32,525	434
SAS3256	HUGHES STREET	MARIAM STREET	BALDWIN STREET	200	PVC	55.3	45,305	604
SAS3257	HUGHES STREET	MARIAM STREET	BALDWIN STREET	200	PVC	58.5	47,927	639
SAS3258	HUGHES STREET	MARIAM STREET	BALDWIN STREET	200	PVC	83.8	68,654	915
SAS3259	HUGHES STREET	BALDWIN STREET	BARWICK STREET	200	PVC	96	78,649	1,049
SAS326	EASEMENT	FAIRVIEW AVENUE	PAULSON COURT	300	VC	83	82,889	1,105
SAS3260	HUGHES STREET	BALDWIN STREET	BARWICK STREET	200	PVC	7.5	6,144	82
SAS3261	ELM STREET	RAPELJE STREET	FIRST AVENUE	200	PVC	80	65,541	874
SAS3262	ELM STREET	WOOD STREET	RAPELJE STREET	250	PVC	96.2	90,318	1,204
SAS3263	ELM STREET	MEEHAN STREET	WOOD STREET	250	PVC	81.1	76,142	1,015
SAS3264	ELM STREET	MEEHAN STREET	WOOD STREET	250	PVC	68.6	64,406	859
SAS3265	ELM STREET	HEPBURN AVENUE	MEEHAN STREET	250	PVC	111.3	104,495	1,393
SAS3266	ELM STREET	MANDEVILLE ROAD	HEPBURN AVENUE	250	PVC	96.3	90,412	1,205
SAS3267	ELM STREET	FIFTH AVENUE	MANDEVILLE ROAD	200	PVC	73.7	60,379	805
SAS3268	ELM STREET	FIFTH AVENUE	MANDEVILLE ROAD	200	PVC	92.9	76,109	1,015
SAS3269	ELM STREET	PARKVIEW DRIVE	FIFTH AVENUE	200	PVC	64.1	52,515	700
SAS327	TAYLOR CRESCENT	ELM STREET	WEST END	200	VC	19.5	15,976	213
SAS3270	ELM STREET	ELMINA STREET	PARKVIEW DRIVE	200	PVC	89.8	73,570	981
SAS3271	ELM STREET	PINAFORE PARK ENTRANCE	ELMINA STREET	200	PVC	102.2	83,728	1,116
SAS3272	ELM STREET	PINAFORE PARK ENTRANCE	ELMINA STREET	200	PVC	26.3	21,547	287
SAS3273	ELM STREET	PARKSIDE DRIVE	PINAFORE PARK ENTRANCE	200	PVC	40.7	33,344	445
SAS3274	ELM STREET	PARKSIDE DRIVE	PINAFORE PARK ENTRANCE	200	PVC	24.9	20,400	272

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS3275	ELM STREET	PARKSIDE DRIVE	PINAFORE PARK ENTRANCE	250	PVC	85.1	79,897	1,065
SAS3276	ELM STREET	WILSON AVENUE	PARKSIDE DRIVE	300	PVC	45.2	45,139	602
SAS3277	ELM STREET	WILSON AVENUE	PARKSIDE DRIVE	300	PVC	52.9	52,829	704
SAS3278	ELM STREET	WILSON AVENUE	PARKSIDE DRIVE	300	PVC	90	89,879	1,198
SAS3279	ELM STREET	WILSON AVENUE	PARKSIDE DRIVE	300	PVC	71.9	71,804	957
SAS328	TAYLOR CRESCENT	ELM STREET	WEST END	200	VC	48.5	39,734	530
SAS3280	ELM STREET	PARKSIDE DRIVE	PINAFORE PARK ENTRANCE	250	PVC	11.9	11,172	149
SAS3281	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	200	PVC	108.3	88,726	1,183
SAS3282	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	200	PVC	67.3	55,136	735
SAS3283	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	200	PVC	66.8	54,727	730
SAS3284	REDHAVEN LANE	AUBURN DRIVE	END	200	PVC	67.5	55,300	737
SAS3285	REDHAVEN LANE	AUBURN DRIVE	END	200	PVC	49.9	40,881	545
SAS3286	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	200	PVC	112.5	92,167	1,229
SAS3287	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	200	PVC	119	97,492	1,300
SAS3288	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	200	PVC	93.1	76,273	1,017
SAS3289	RENAISSANCE DRIVE	AUBURN DRIVE	HARLEQUIN COURT	250	PVC	56.1	52,670	702
SAS329	TAYLOR CRESCENT	ELM STREET	WEST END	200	VC	50	40,963	546
SAS3290	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	250	PVC	25.9	24,316	324
SAS3291	RENAISSANCE DRIVE	AUBURN DRIVE	HARLEQUIN COURT	250	PVC	103.1	96,796	1,291
SAS3292	RENAISSANCE DRIVE	AUBURN DRIVE	HARLEQUIN COURT	250	PVC	88	82,620	1,102
SAS3293	CHARTER CREEK COURT	PEACH TREE BOULEVARD	END	200	PVC	39.5	32,361	431
SAS3294	CHARTER CREEK COURT	PEACH TREE BOULEVARD	END	200	PVC	74.3	60,871	812
SAS3295	CHARTER CREEK COURT	PEACH TREE BOULEVARD	END	200	PVC	110	90,119	1,202
SAS3299	ELM STREET	BAILEY AVENUE	RENAISSANCE DRIVE	300	PVC	55.5	55,426	739
SAS33	LEGER AVENUE	MCGIBBON AVENUE	FAIRVIEW AVENUE	200	AC	83.2	68,162	909
SAS330	TAYLOR CRESCENT	ELM STREET	WEST END	200	VC	55.2	45,223	603
SAS3300	ELM STREET	BAILEY AVENUE	RENAISSANCE DRIVE	300	PVC	8.6	8,588	115
SAS3301	ELM STREET	BAILEY AVENUE	RENAISSANCE DRIVE	200	PVC	98.2	80,451	1,073
SAS3338	BODKIN STREET	CITY LIMITS	COULTER AVENUE	200	PVC	99.5	81,516	1,087
SAS3354	BARNES STREET	VERNA STREET	EAST END	200	PVC	99.9	81,844	1,091
SAS3355	BARNES STREET	LYDIA STREET	VERNA STREET	200	PVC	101.9	83,483	1,113
SAS3356	BARNES STREET	ROSS STREET	LYDIA STREET	250	PVC	95.9	90,037	1,200
SAS3357	JONAS STREET	VERNA STREET	EAST END	200	PVC	43.8	35,884	478
SAS3358	JONAS STREET	LYDIA STREET	VERNA STREET	200	PVC	101.9	83,483	1,113
SAS3359	JONAS STREET	ROSS STREET	LYDIA STREET	200	PVC	85.9	70,374	938
SAS3360	JONAS STREET	ROSS STREET	LYDIA STREET	200	PVC	11.7	9,585	128
SAS3361	LYDIA STREET	BARNES STREET	WELLINGTON STREET	200	PVC	56.3	46,124	615
SAS3362	LYDIA STREET	JONAS STREET	BARNES STREET	200	PVC	90.2	73,897	985
SAS3363	VERNA STREET	JONAS STREET	BARNES STREET	200	PVC	90.2	73,897	985
SAS3364	WHITE STREET	ELIZABETH STREET	MITCHELL STREET	200	PVC	63.7	52,187	696
SAS3365	WHITE STREET	CENTRE STREET	ELIZABETH STREET	200	PVC	90.7	74,307	991
SAS3366	CENTRE STREET	ELGIN STREET	HINCKS STREET	200	PVC	53.9	44,158	589
SAS3367	CENTRE STREET	HINCKS STREET	SOUTHWICK STREET	200	PVC	96.4	78,977	1,053

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS3368	HINCKS STREET	CENTRE STREET	ELIZABETH STREET	250	PVC	6.5	6,103	81
SAS3369	HINCKS STREET	TALBOT STREET	CENTRE STREET	250	PVC	15.1	14,177	189
SAS3370	CENTRE STREET	SOUTHWICK STREET	WHITE STREET	200	PVC	109.3	89,545	1,194
SAS3371	SOUTHWICK STREET	CENTRE STREET	ELIZABETH STREET	200	PVC	3.7	3,031	40
SAS3372	CENTRE STREET	SOUTHWICK STREET	WHITE STREET	200	PVC	49.2	40,308	537
SAS3373	CENTRE STREET	WHITE STREET	PRINCESS AVENUE	200	PVC	53.1	43,503	580
SAS3374	CENTRE STREET	WHITE STREET	PRINCESS AVENUE	200	PVC	61.3	50,221	670
SAS3375	STANLEY STREET	CENTRE STREET	WALNUT STREET	250	PVC	57.5	53,984	720
SAS3376	STANLEY STREET	WALNUT STREET	ST. ANNE'S PLACE	250	PVC	72	67,598	901
SAS3377	STANLEY STREET	ST. ANNE'S PLACE	WILLIAM STREET	250	PVC	33.8	31,733	423
SAS3378	STANLEY STREET	ST. ANNE'S PLACE	WILLIAM STREET	250	PVC	19.3	18,120	242
SAS3379	STANLEY STREET	ST. ANNE'S PLACE	WILLIAM STREET	250	PVC	106.5	99,989	1,333
SAS3380	SOUTHDALE LINE	LYNDALE STREET	CITY LIMITS	200	PVC	73.1	59,888	799
SAS3381	NULL	NULL	NULL	200	PVC	39.9	32,688	436
SAS3382	SOUTHDALE LINE	LYNDALE STREET	CITY LIMITS	200	PVC	50.6	41,455	553
SAS3383	SOUTHDALE LINE	LYNDALE STREET	CITY LIMITS	200	PVC	79.4	65,049	867
SAS3384	SOUTHDALE LINE	LYNDALE STREET	CITY LIMITS	200	PVC	49.2	40,308	537
SAS3385	SOUTHDALE LINE	LYNDALE STREET	CITY LIMITS	300	PVC	96.9	96,770	1,290
SAS3387	NULL	NULL	NULL	300	PVC	9.5	9,487	126
SAS3388	NULL	NULL	NULL	250	PVC	20	18,777	250
SAS3389	NULL	NULL	NULL	200	PVC	15	12,289	164
SAS3390	NULL	NULL	NULL	200	PVC	4	3,277	44
SAS3391	ELM STREET	BAILEY AVENUE	RENAISSANCE DRIVE	200	PVC	21.2	17,368	232
SAS3393	NULL	NULL	NULL	200	PVC	126	103,227	1,376
SAS3394	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	200	PVC	78.9	64,640	862
SAS3395	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	200	PVC	78.6	64,394	859
SAS3396	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	200	PVC	80.8	66,196	883
SAS3397	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	200	PVC	80.4	65,869	878
SAS3398	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	200	PVC	90.1	73,815	984
SAS3399	ACORN TRAIL	ASHBERRY PLACE	RENAISSANCE DRIVE	200	PVC	96.4	78,977	1,053
SAS34	LEGER AVENUE	MCGIBBON AVENUE	FAIRVIEW AVENUE	200	AC	75.3	61,690	823
SAS3400	ACORN TRAIL	ASHBERRY PLACE	RENAISSANCE DRIVE	200	PVC	88.5	72,505	967
SAS3401	RENAISSANCE DRIVE	AMBROSIA PATH	ACORN TRAIL	250	PVC	34.1	32,015	427
SAS341	VANBUSKIRK DRIVE	GUSTIN PLACE	HIGHVIEW DRIVE	250	VC	47.9	44,971	600
SAS3417	BENJAMIN PARKWAY	LOGG TRAIL	FEATHERS CROSSING	300	PVC	47.8	47,736	636
SAS3418	BENJAMIN PARKWAY	LOGG TRAIL	FEATHERS CROSSING	300	PVC	52.9	52,829	704
SAS3419	BENJAMIN PARKWAY	LOGG TRAIL	FEATHERS CROSSING	300	PVC	41	40,945	546
SAS342	VANBUSKIRK DRIVE	PAULSON COURT	GUSTIN PLACE	250	VC	107.9	101,303	1,351
SAS3420	NULL	NULL	NULL	300	PVC	43.3	43,242	577
SAS3421	NULL	NULL	NULL	300	PVC	30.4	30,359	405
SAS3422	FEATHERS CROSSING	STYLES DRIVE	BOBWHITE PATH	300	PVC	55.2	55,126	735
SAS3423	FEATHERS CROSSING	SILVERLEAF PATH	STYLES DRIVE	200	PVC	91	74,553	994
SAS3424	FEATHERS CROSSING	SILVERLEAF PATH	STYLES DRIVE	200	PVC	52.3	42,847	571
SAS3425	FEATHERS CROSSING	SILVERLEAF PATH	STYLES DRIVE	200	PVC	110	90,119	1,202
SAS3426	FEATHERS CROSSING	SILVERLEAF PATH	STYLES DRIVE	200	PVC	110	90,119	1,202
SAS3427	FEATHERS CROSSING	BENJAMIN PARKWAY	SILVERLEAF PATH	200	PVC	63.4	51,941	693
SAS3428	FEATHERS CROSSING	BENJAMIN PARKWAY	SILVERLEAF PATH	200	PVC	40.8	33,426	446
SAS3429	HAWKE LANE	BENJAMIN PARKWAY	END	200	PVC	81	66,360	885

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS343	GUSTIN PLACE	VANBUSKIRK DRIVE	WEST END	200	VC	98.8	80,943	1,079
SAS3430	STYLES DRIVE	FEATHERS CROSSING	SILVERLEAF PATH	200	PVC	61.6	50,466	673
SAS3431	STYLES DRIVE	CLOVER CIRCLE	FEATHERS CROSSING	300	PVC	101.9	101,763	1,357
SAS3432	STYLES DRIVE	FOXTAIL LANE	CLOVER CIRCLE	300	PVC	46	45,938	613
SAS3433	CLOVER CIRCLE	STYLES DRIVE	END	200	PVC	95.5	78,239	1,043
SAS3434	WEIR CRESCENT	STYLES DRIVE	STYLES DRIVE	200	PVC	96.2	78,813	1,051
SAS3435	WEIR CRESCENT	STYLES DRIVE	STYLES DRIVE	200	PVC	101.1	82,827	1,104
SAS3436	WEIR CRESCENT	STYLES DRIVE	STYLES DRIVE	200	PVC	93	76,191	1,016
SAS3437	HARLEQUIN COURT	RENAISSANCE DRIVE	END	200	PVC	37.1	30,395	405
SAS3438	HARLEQUIN COURT	RENAISSANCE DRIVE	END	200	PVC	102.8	84,220	1,123
SAS3439	HARLEQUIN COURT	RENAISSANCE DRIVE	END	200	PVC	97.6	79,960	1,066
SAS344	MCCULLY DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	200	VC	79.2	64,885	865
SAS3440	HARLEQUIN COURT	RENAISSANCE DRIVE	END	200	PVC	50	40,963	546
SAS3441	BENJAMIN PARKWAY	FOXTAIL LANE	LOGG TRAIL	375	PVC	40.1	41,245	550
SAS3442	BENJAMIN PARKWAY	LOGG TRAIL	FEATHERS CROSSING	300	PVC	58.8	58,721	783
SAS3443	BENJAMIN PARKWAY	LOGG TRAIL	FEATHERS CROSSING	300	PVC	67.2	67,110	895
SAS3448	LOCUST STREET	ROSS STREET	FIFTH AVENUE	200	PVC	94.2	77,174	1,029
SAS3449	LOCUST STREET	ROSS STREET	FIFTH AVENUE	200	PVC	90	73,733	983
SAS345	MCCULLY DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	200	VC	62.5	51,204	683
SAS3450	LOCUST STREET	ROSS STREET	FIFTH AVENUE	200	PVC	90	73,733	983
SAS3451	LOCUST STREET	ROSS STREET	FIFTH AVENUE	200	PVC	79.4	65,049	867
SAS3452	LOCUST STREET	FIFTH AVENUE	FOURTH AVENUE	200	PVC	84.9	69,555	927
SAS3453	LOCUST STREET	FIFTH AVENUE	FOURTH AVENUE	200	PVC	74.4	60,953	813
SAS3454	LOCUST STREET	FOURTH AVENUE	THIRD AVENUE	200	PVC	70.8	58,004	773
SAS3455	LOCUST STREET	FOURTH AVENUE	THIRD AVENUE	200	PVC	70	57,348	765
SAS3456	FOURTH AVENUE	MYRTLE STREET	LOCUST STREET	300	PVC	77.9	77,796	1,037
SAS3457	FOURTH AVENUE	FOREST AVENUE	MYRTLE STREET	300	PVC	85.8	85,685	1,142
SAS3458	AHMED PLACE	PARISH STREET	END	200	PVC	63.6	52,105	695
SAS3459	AHMED PLACE	PARISH STREET	END	200	PVC	99.5	81,516	1,087
SAS346	MCCULLY DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	200	VC	74.6	61,117	815
SAS3460	AHMED PLACE	PARISH STREET	END	200	PVC	34.6	28,346	378
SAS3461	NULL	NULL	NULL	200	PVC	81.2	66,524	887
SAS3462	FAIRVIEW AVENUE	LEGER AVENUE	AXFORD PARKWAY	200	PVC	45	36,867	492
SAS3463	LEGER AVENUE	MCGIBBON AVENUE	FAIRVIEW AVENUE	200	PVC	20	16,385	218
SAS3464	FAIRVIEW AVENUE	RAVEN AVENUE	LEGER AVENUE	200	PVC	89.93	73,676	982
SAS3465	FAIRVIEW AVENUE	CALDWELL STREET	AIREY AVENUE	200	PVC	104	85,203	1,136
SAS3466	FAIRVIEW AVENUE	ALDBOROUGH AVENUE	CALDWELL STREET	250	PVC	109.6	102,899	1,372
SAS3467	FAIRVIEW AVENUE	ALDBOROUGH AVENUE	CALDWELL STREET	250	PVC	100	93,886	1,252
SAS3468	FAIRVIEW AVENUE	ELM STREET	ALDBOROUGH AVENUE	250	PVC	100	93,886	1,252
SAS3469	FAIRVIEW AVENUE	ELM STREET	ALDBOROUGH AVENUE	250	PVC	94.1	88,347	1,178
SAS347	MCCULLY DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	200	VC	86.8	71,112	948
SAS3470	FAIRVIEW AVENUE	ELM STREET	ALDBOROUGH AVENUE	250	PVC	72.1	67,692	903
SAS3472	WELDON AVENUE	INKERMAN STREET	WOODWORTH AVENUE	200	PVC	77.3	63,329	844
SAS3473	WELDON AVENUE	INKERMAN STREET	WOODWORTH AVENUE	200	PVC	86.7	71,030	947
SAS3474	EDGEWARE LINE	HIGHBURY AVENUE	CITY LIMITS	375	PVC	108.9	112,010	1,493
SAS3475	EDGEWARE LINE	HIGHBURY AVENUE	CITY LIMITS	375	PVC	108.8	111,907	1,492
SAS3476	EDGEWARE LINE	HIGHBURY AVENUE	CITY LIMITS	375	PVC	78.7	80,948	1,079
SAS3477	EDGEWARE LINE	HIGHBURY AVENUE	CITY LIMITS	375	PVC	78.7	80,948	1,079

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS3478	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	375	PVC	61.4	63,154	842
SAS3479	HIGHBURY AVENUE	DENNIS ROAD	EDGEWARE LINE	375	PVC	108.8	111,907	1,492
SAS3480	HIGHBURY AVENUE	DENNIS ROAD	EDGEWARE LINE	375	PVC	108.8	111,907	1,492
SAS3481	HIGHBURY AVENUE	DENNIS ROAD	EDGEWARE LINE	375	PVC	45.5	46,799	624
SAS3482	HIGHBURY AVENUE	DENNIS ROAD	EDGEWARE LINE	375	PVC	97.8	100,593	1,341
SAS3483	HIGHBURY AVENUE	DENNIS ROAD	EDGEWARE LINE	375	PVC	97.8	100,593	1,341
SAS3484	HIGHBURY AVENUE	DENNIS ROAD	EDGEWARE LINE	375	PVC	21.5	22,114	295
SAS3485	HIGHBURY AVENUE	DENNIS ROAD	EDGEWARE LINE	375	PVC	12.9	13,268	177
SAS35	LEGER AVENUE	MCGIBBON AVENUE	FAIRVIEW AVENUE	200	AC	55.8	45,715	610
SAS350	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	250	VC	96.3	90,412	1,205
SAS351	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	250	VC	96.6	90,694	1,209
SAS352	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	250	VC	97.5	91,539	1,221
SAS353	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	250	VC	96.6	90,694	1,209
SAS354	TAYLOR CRESCENT	ELM STREET	WEST END	200	VC	53.8	44,076	588
SAS355	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	300	VC	66.4	66,311	884
SAS356	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	300	VC	79.6	79,493	1,060
SAS357	PARK AVENUE	CHESTNUT STREET	MARY BUCKE STREET	250	VC	100	93,886	1,252
SAS358	PARK AVENUE	CHESTNUT STREET	MARY BUCKE STREET	250	VC	90.5	84,967	1,133
SAS359	PARK AVENUE	CHESTNUT STREET	MARY BUCKE STREET	250	VC	94.2	88,441	1,179
SAS36	LEGER AVENUE	VANIER PLACE	MCGIBBON AVENUE	200	AC	70.4	57,676	769
SAS360	PARK AVENUE	MARY BUCKE STREET	KOPIC COURT	250	VC	68.7	64,500	860
SAS361	PARK AVENUE	MARY BUCKE STREET	KOPIC COURT	250	VC	67.1	62,998	840
SAS362	PARK AVENUE	KOPIC COURT	ELM STREET	250	VC	68.6	64,406	859
SAS363	PARK AVENUE	MARY BUCKE STREET	KOPIC COURT	250	VC	68.6	64,406	859
SAS365	PARK AVENUE	KOPIC COURT	ELM STREET	250	VC	68.1	63,936	852
SAS366	YOUNG STREET	ELM STREET	NORTH END	200	VC	88.4	72,423	966
SAS367	YOUNG STREET	ELM STREET	NORTH END	200	VC	88.4	72,423	966
SAS368	YOUNG STREET	ELM STREET	NORTH END	200	VC	88.4	72,423	966
SAS369	RHONDA COURT	ELM STREET	NORTH END	200	VC	91.4	74,880	998
SAS37	LEGER AVENUE	VANIER PLACE	MCGIBBON AVENUE	200	AC	70.4	57,676	769
SAS370	RHONDA COURT	ELM STREET	NORTH END	200	VC	91.4	74,880	998
SAS371	RHONDA COURT	ELM STREET	NORTH END	200	VC	32	26,216	350
SAS372	CAVANAUGH DRIVE	TREVITHICK TERRACE	CHESTNUT STREET	200	PVC	104	85,203	1,136
SAS373	CAVANAUGH DRIVE	TREVITHICK TERRACE	CHESTNUT STREET	200	PVC	103.3	84,630	1,128
SAS374	CAVANAUGH DRIVE	TREVITHICK TERRACE	CHESTNUT STREET	200	PVC	91.8	75,208	1,003
SAS375	TREVITHICK TERRACE	MARY BUCKE STREET	CAVANAUGH DRIVE	200	PVC	51.9	42,520	567
SAS376	MARY BUCKE STREET	TREVITHICK TERRACE	PARK AVENUE	200	VC	91.4	74,880	998
SAS377	TREVITHICK TERRACE	CAVANAUGH DRIVE	CHESTNUT STREET	200	PVC	90	73,733	983
SAS378	TREVITHICK TERRACE	CAVANAUGH DRIVE	CHESTNUT STREET	200	PVC	45.3	37,112	495
SAS379	HIGHVIEW DRIVE	PADDON STREET	POL COURT	200	VC	54.9	44,977	600
SAS38	LEGER AVENUE	VANIER PLACE	MCGIBBON AVENUE	200	AC	70.4	57,676	769
SAS380	HIGHVIEW DRIVE	POL COURT	CROATIA COURT	200	VC	64.8	53,088	708
SAS381	POL COURT	HIGHVIEW DRIVE	PADDON STREET	200	VC	72.2	59,151	789
SAS382	POL COURT	HIGHVIEW DRIVE	PADDON STREET	200	VC	41.1	33,672	449
SAS383	EASEMENT	FAIRVIEW AVENUE	POL COURT	200	VC	37.6	30,804	411
SAS384	EASEMENT	FAIRVIEW AVENUE	POL COURT	200	VC	16.9	13,845	185
SAS385	EASEMENT	FAIRVIEW AVENUE	POL COURT	200	VC	24.8	20,318	271
SAS386	EASEMENT	FAIRVIEW AVENUE	POL COURT	200	VC	89.5	73,324	978

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS387	HIGHVIEW DRIVE	POL COURT	CROATIA COURT	200	VC	66.4	54,399	725
SAS388	CROATIA COURT	HIGHVIEW DRIVE	EAST END	200	VC	85	69,637	928
SAS389	POL COURT	HIGHVIEW DRIVE	PADDON STREET	200	VC	85.8	70,293	937
SAS39	LEGER AVENUE	ALDBOROUGH AVENUE	VANIER PLACE	250	AC	79.2	74,358	991
SAS390	PADDON STREET	HIGHVIEW DRIVE	POL COURT	200	VC	82	67,179	896
SAS391	PADDON STREET	HIGHVIEW DRIVE	POL COURT	200	VC	76.8	62,919	839
SAS392	PARK AVENUE	MARY BUCKE STREET	KOPIC COURT	200	VC	29.9	24,496	327
SAS393	NULL	NULL	NULL	200	VC	13.7	11,224	150
SAS394	FIRST AVENUE	CHESTNUT STREET	BRANT AVENUE	200	VC	20.5	16,795	224
SAS395	FIRST AVENUE	CHESTNUT STREET	BRANT AVENUE	200	VC	62.5	51,204	683
SAS396	FIRST AVENUE	BRANT AVENUE	PHILIP STREET	200	VC	97.5	79,878	1,065
SAS397	FIRST AVENUE	PHILIP STREET	ST. JOSEPH STREET	200	VC	97.5	79,878	1,065
SAS398	FIRST AVENUE	PHILIP STREET	ST. JOSEPH STREET	200	VC	100.6	82,418	1,099
SAS40	SAUVE AVENUE	LEGER AVENUE	AXFORD PARKWAY	250	PVC	70.1	65,814	878
SAS401	FIRST AVENUE	ST. JOSEPH STREET	ENGLEWOOD STREET	450	VC	146.3	154,853	2,065
SAS403	RAVINE	CHURCHILL CRESCENT	FIRST AVENUE	1050	CO	8	14,926	199
SAS404	RAVINE	CHURCHILL CRESCENT	FIRST AVENUE	1050	CO	75	139,932	1,866
SAS405	RAVINE	CHURCHILL CRESCENT	FIRST AVENUE	1050	CO	90	167,918	2,239
SAS406	BRANT AVENUE	THAMES STREET	FIRST AVENUE	200	VC	128.6	105,357	1,405
SAS407	THAMES STREET	BRANT AVENUE	SOUTH END	200	VC	78.5	64,312	857
SAS408	THAMES STREET	BRANT AVENUE	SOUTH END	200	VC	68.1	55,792	744
SAS41	ALDBOROUGH AVENUE	MASSEY DRIVE	LEGER AVENUE	250	AC	84.7	79,521	1,060
SAS410	THAMES STREET	BRANT AVENUE	SOUTH END	200	VC	94	77,010	1,027
SAS411	THAMES STREET	BRANT AVENUE	SOUTH END	200	VC	54.9	44,977	600
SAS412	SIMCOE STREET	CHURCHILL CRESCENT	FIRST AVENUE	200	VC	97.2	79,632	1,062
SAS413	SIMCOE STREET	CHURCHILL CRESCENT	FIRST AVENUE	200	VC	80.2	65,705	876
SAS414	SIMCOE STREET	CHURCHILL CRESCENT	FIRST AVENUE	200	VC	80.2	65,705	876
SAS415	SIMCOE STREET	CHURCHILL CRESCENT	FIRST AVENUE	200	VC	56.1	45,960	613
SAS417	MORRISON DRIVE	ST. JOSEPH STREET	ELM STREET	250	VC	87.8	82,432	1,099
SAS418	MORRISON DRIVE	ST. JOSEPH STREET	ELM STREET	250	VC	80.5	75,578	1,008
SAS419	CHESTNUT STREET	CAVANAUGH DRIVE	FAIRVIEW AVENUE	200	PVC	55	45,059	601
SAS42	MASSEY DRIVE	MICHENER COURT	END	250	AC	57.9	54,360	725
SAS420	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	250	VC	103.6	97,266	1,297
SAS421	CAVANAUGH DRIVE	TREVITHICK TERRACE	CHESTNUT STREET	200	PVC	94.8	77,666	1,036
SAS422	TREVITHICK TERRACE	CAVANAUGH DRIVE	CHESTNUT STREET	200	PVC	93.6	76,683	1,022
SAS423	EASEMENT	MORRISON DRIVE	PARK AVENUE	300	VC	67.5	67,410	899
SAS424	EASEMENT	MORRISON DRIVE	PARK AVENUE	300	VC	70.1	70,006	933
SAS425	EASEMENT	MORRISON DRIVE	PARK AVENUE	300	VC	68.6	68,508	913
SAS426	ST. JOSEPH STREET	HIGH STREET	MORRISON DRIVE	300	VC	13.6	13,582	181
SAS427	ST. JOSEPH STREET	HIGH STREET	MORRISON DRIVE	300	VC	92.7	92,576	1,234
SAS428	ST. JOSEPH STREET	HIGH STREET	MORRISON DRIVE	300	VC	80.3	80,192	1,069
SAS429	ST. JOSEPH STREET	FIRST AVENUE	HIGH STREET	750	CO	89.4	121,357	1,618
SAS43	MASSEY DRIVE	MICHENER COURT	END	250	AC	15.8	14,834	198
SAS430	CHESTNUT STREET	HIGH STREET	PARK AVENUE	200	AC	65.5	53,662	715
SAS431	CHESTNUT STREET	HIGH STREET	PARK AVENUE	200	AC	42.7	34,982	466
SAS432	CHESTNUT STREET	HIGH STREET	PARK AVENUE	250	CO	91.4	85,812	1,144
SAS433	CHESTNUT STREET	FIRST AVENUE	HIGH STREET	300	CO	103.6	103,461	1,379
SAS435	HIGH STREET	CHESTNUT STREET	PHILIP STREET	200	VC	93.3	76,437	1,019

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS436	HIGH STREET	CHESTNUT STREET	PHILIP STREET	200	VC	89.6	73,406	979
SAS437	HIGH STREET	PHILIP STREET	ST. JOSEPH STREET	200	VC	102.1	83,646	1,115
SAS438	HIGH STREET	PHILIP STREET	ST. JOSEPH STREET	200	VC	97.5	79,878	1,065
SAS439	RYERSON PLACE	PHILIP STREET	EAST END	200	VC	52.4	42,929	572
SAS44	MASSEY DRIVE	MICHENER COURT	END	250	AC	76.5	71,823	958
SAS440	RYERSON PLACE	PHILIP STREET	EAST END	200	VC	102.1	83,646	1,115
SAS441	PHILIP STREET	RYERSON PLACE	EAST END	200	VC	100.6	82,418	1,099
SAS443	CHESTNUT STREET	PARK AVENUE	TREVITHICK TERRACE	200	PVC	91.8	75,208	1,003
SAS444	PARK AVENUE	CHESTNUT STREET	MARY BUCKE STREET	250	VC	98.1	92,102	1,228
SAS445	CHESTNUT STREET	ASPEN AVENUE	HIGHVIEW DRIVE	200	VC	74.1	60,707	809
SAS446	CHESTNUT STREET	ASPEN AVENUE	HIGHVIEW DRIVE	200	VC	64.9	53,170	709
SAS447	CHESTNUT STREET	FAIRVIEW AVENUE	ASPEN AVENUE	200	VC	54.3	44,486	593
SAS448	CHESTNUT STREET	FAIRVIEW AVENUE	ASPEN AVENUE	200	VC	76.2	62,428	832
SAS449	HIGHVIEW DRIVE	CHESTNUT STREET	FOREST AVENUE	200	VC	69.6	57,020	760
SAS45	MASSEY DRIVE	MICHENER COURT	END	250	AC	26.2	24,598	328
SAS450	ASPEN AVENUE	FOREST AVENUE	CHESTNUT STREET	200	VC	63.4	51,941	693
SAS452	FAIRVIEW AVENUE	WELLINGTON STREET	FOREST AVENUE	200	VC	100.6	82,418	1,099
SAS454	FAIRVIEW AVENUE	WELLINGTON STREET	FOREST AVENUE	200	VC	102.1	83,646	1,115
SAS456	FAIRVIEW AVENUE	FOREST AVENUE	CHESTNUT STREET	200	VC	91.4	74,880	998
SAS457	FAIRVIEW AVENUE	FOREST AVENUE	CHESTNUT STREET	200	VC	79.9	65,459	873
SAS458	FAIRVIEW AVENUE	FOREST AVENUE	CHESTNUT STREET	250	VC	8.5	7,980	106
SAS459	ASPEN AVENUE	FOREST AVENUE	CHESTNUT STREET	200	VC	93.6	76,683	1,022
SAS46	MICHENER COURT	MASSEY DRIVE	SOUTH END	250	AC	71.6	67,222	896
SAS460	ASPEN AVENUE	FOREST AVENUE	CHESTNUT STREET	200	VC	95.1	77,912	1,039
SAS461	HIGHVIEW DRIVE	CHESTNUT STREET	FOREST AVENUE	200	VC	96	78,649	1,049
SAS462	HIGHVIEW DRIVE	CHESTNUT STREET	FOREST AVENUE	200	VC	78	63,902	852
SAS463	HIGHVIEW DRIVE	FOREST AVENUE	WELLINGTON STREET	200	PVC	101	82,745	1,103
SAS464	DAUGHARTY DRIVE	FOREST AVENUE	LAURA AVENUE	250	CO	114	107,030	1,427
SAS465	DAUGHARTY DRIVE	LAURA AVENUE	CHESTNUT STREET	200	CO	64	52,433	699
SAS466	DAUGHARTY DRIVE	LAURA AVENUE	CHESTNUT STREET	200	PVC	36	29,493	393
SAS467	LAURA AVENUE	DAUGHARTY DRIVE	EAST END	200	CO	71.5	58,577	781
SAS468	PARK AVENUE	WELLINGTON STREET	ERIE STREET	250	VC	98.1	92,102	1,228
SAS469	PARK AVENUE	ERIE STREET	FOREST AVENUE	250	VC	53.3	50,041	667
SAS47	MASSEY DRIVE	ALDBOROUGH AVENUE	MICHENER COURT	250	AC	93.9	88,159	1,175
SAS470	PARK AVENUE	FOREST AVENUE	CHESTNUT STREET	250	VC	94.8	89,004	1,187
SAS471	PARK AVENUE	FOREST AVENUE	CHESTNUT STREET	250	VC	86	80,742	1,077
SAS472	PARK AVENUE	FOREST AVENUE	CHESTNUT STREET	250	VC	73.2	68,725	916
SAS474	PARK AVENUE	MARY STREET EAST	WELLINGTON STREET	200	VC	39.2	32,115	428
SAS475	PARK AVENUE	WAREHOUSE STREET	STEELE STREET	200	VC	69.6	57,020	760
SAS476	PARK AVENUE	STEELE STREET	MARY STREET EAST	200	VC	98.1	80,369	1,072
SAS477	FAIRVIEW AVENUE	TALBOT STREET	WAREHOUSE STREET	250	VC	30.5	28,635	382
SAS478	FAIRVIEW AVENUE	STEELE STREET	WELLINGTON STREET	200	VC	105.8	86,678	1,156
SAS479	FAIRVIEW AVENUE	STEELE STREET	WELLINGTON STREET	200	VC	77.4	63,411	845
SAS48	ALDBOROUGH AVENUE	PRESPA COURT	MASSEY DRIVE	250	AC	87.2	81,869	1,092
SAS480	STEELE STREET	PARK AVENUE	FAIRVIEW AVENUE	300	AC	70.4	70,306	937
SAS481	STEELE STREET	PARK AVENUE	FAIRVIEW AVENUE	300	AC	99.7	99,566	1,328
SAS482	STEELE STREET	PARK AVENUE	FAIRVIEW AVENUE	300	AC	113.7	113,548	1,514
SAS483	WAREHOUSE STREET	PARK AVENUE	FAIRVIEW AVENUE	250	VC	105.3	98,862	1,318

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS484	WAREHOUSE STREET	PARK AVENUE	FAIRVIEW AVENUE	250	VC	98.9	92,853	1,238
SAS485	WAREHOUSE STREET	PARK AVENUE	FAIRVIEW AVENUE	250	VC	99.3	93,229	1,243
SAS486	HIGHVIEW DRIVE	FARMINGTON DRIVE	PALMER COURT	300	PVC	66.3	66,211	883
SAS487	HIGHVIEW DRIVE	FARMINGTON DRIVE	FARMINGTON DRIVE	300	PVC	95.8	95,672	1,276
SAS488	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	300	PVC	94	93,874	1,252
SAS489	HIGHVIEW DRIVE	RIPLEY LANE	FARMINGTON DRIVE	300	PVC	82.6	82,489	1,100
SAS49	PARISH STREET	ALDBOROUGH AVENUE	AIREY AVENUE	200	VC	15.2	12,453	166
SAS490	HIGHVIEW DRIVE	RICKWOOD PLACE	RIPLEY LANE	300	PVC	48.3	48,235	643
SAS491	HIGHVIEW DRIVE	RICKWOOD PLACE	RIPLEY LANE	300	PVC	58.4	58,322	778
SAS492	HIGHVIEW DRIVE	RICKWOOD PLACE	RICKWOOD PLACE	300	PVC	39.6	39,547	527
SAS493	HIGHVIEW DRIVE	WELLINGTON STREET	RICKWOOD PLACE	300	VC	42.7	42,643	569
SAS494	HIGHVIEW DRIVE	WELLINGTON STREET	RICKWOOD PLACE	300	VC	91.9	91,777	1,224
SAS495	WELLINGTON STREET	STOKES ROAD	RICE ROAD	300	VC	94.2	94,074	1,254
SAS496	WELLINGTON STREET	STOKES ROAD	RICE ROAD	300	VC	88.7	88,581	1,181
SAS497	WELLINGTON STREET	HIGHVIEW DRIVE	STOKES ROAD	375	VC	90.5	93,085	1,241
SAS498	WELLINGTON STREET	HIGHVIEW DRIVE	STOKES ROAD	375	VC	91.7	94,319	1,258
SAS499	WELLINGTON STREET	HIGHVIEW DRIVE	STOKES ROAD	375	VC	91.7	94,319	1,258
SAS5	PENHALE AVENUE	DAVID DRIVE	SOUTH END	200	AC	36	29,493	393
SAS50	PARISH STREET	ALDBOROUGH AVENUE	AIREY AVENUE	200	VC	91.7	75,126	1,002
SAS500	WELLINGTON STREET	FAIRVIEW AVENUE	HIGHVIEW DRIVE	375	VC	84.7	87,119	1,162
SAS501	WELLINGTON STREET	FAIRVIEW AVENUE	HIGHVIEW DRIVE	375	VC	91.7	94,319	1,258
SAS502	WELLINGTON STREET	FAIRVIEW AVENUE	HIGHVIEW DRIVE	375	VC	90.8	93,393	1,245
SAS506	HIGHVIEW DRIVE	FOREST AVENUE	WELLINGTON STREET	150	VC	10.1	8,275	110
SAS507	HIGHVIEW DRIVE	CHESTNUT STREET	FOREST AVENUE	200	VC	35.1	28,756	383
SAS508	FOREST AVENUE	ASPEN AVENUE	HIGHVIEW DRIVE	250	VC	68.6	64,406	859
SAS509	FOREST AVENUE	ASPEN AVENUE	HIGHVIEW DRIVE	250	VC	68.6	64,406	859
SAS51	PARISH STREET	ALDBOROUGH AVENUE	AIREY AVENUE	200	VC	88.4	72,423	966
SAS510	FOREST AVENUE	FAIRVIEW AVENUE	ASPEN AVENUE	250	VC	66.4	62,340	831
SAS511	FOREST AVENUE	DAUGHARTY DRIVE	FAIRVIEW AVENUE	300	VC	92.2	92,076	1,228
SAS512	FOREST AVENUE	DAUGHARTY DRIVE	FAIRVIEW AVENUE	300	VC	104.6	104,460	1,393
SAS513	FOREST AVENUE	PARK AVENUE	DAUGHARTY DRIVE	375	VC	104.9	107,896	1,439
SAS515	STOKES ROAD	BONNIE PLACE	CHESTNUT STREET	200	AC	61	49,975	666
SAS516	STOKES ROAD	BONNIE PLACE	CHESTNUT STREET	250	AC	66.4	62,340	831
SAS517	STOKES ROAD	BONNIE PLACE	CHESTNUT STREET	250	AC	68.1	63,936	852
SAS518	STOKES ROAD	BONNIE PLACE	BONNIE PLACE	250	AC	50.4	47,319	631
SAS519	STOKES ROAD	BONNIE PLACE	BONNIE PLACE	250	AC	28.9	27,133	362
SAS520	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	250	AC	24.6	23,096	308
SAS521	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	250	AC	47.9	44,971	600
SAS522	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	250	AC	57.6	54,078	721
SAS523	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	300	AC	43.6	43,542	581
SAS524	BONNIE PLACE	STOKES ROAD	STOKES ROAD	200	AC	69.2	56,693	756
SAS525	BONNIE PLACE	STOKES ROAD	STOKES ROAD	200	AC	76.2	62,428	832
SAS526	BONNIE PLACE	STOKES ROAD	STOKES ROAD	200	AC	69.2	56,693	756
SAS527	BONNIE PLACE	STOKES ROAD	STOKES ROAD	200	AC	64.4	52,760	703
SAS528	RICE ROAD	WELLINGTON STREET	HITCH CRESCENT	200	PVC	103	84,384	1,125
SAS529	MANOR ROAD	RICE ROAD	CHESTNUT STREET	200	AC	50.6	41,455	553
SAS53	AIREY AVENUE	KER STREET	PARISH STREET	200	VC	57.9	47,435	632
SAS530	MANOR ROAD	RICE ROAD	CHESTNUT STREET	200	AC	49.4	40,471	540

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS531	MANOR ROAD	RICE ROAD	CHESTNUT STREET	200	AC	30.5	24,987	333
SAS532	RICE ROAD	HITCH CRESCENT	HITCH CRESCENT	200	PVC	84.4	69,146	922
SAS533	FAIRVIEW AVENUE	FOREST AVENUE	CHESTNUT STREET	200	VC	86.4	70,784	944
SAS535	FIRST AVENUE	TALBOT STREET	STEELE STREET	600	CO	146.3	167,976	2,240
SAS535	FIRST AVENUE	STEELE STREET	MARY STREET EAST	600	CO	146.3	167,976	2,240
SAS537	FIRST AVENUE	MARY STREET EAST	WELLINGTON STREET	675	CO	97.5	132,352	1,765
SAS539	FIRST AVENUE	ERIE STREET	FOREST AVENUE	675	CO	118.9	161,402	2,152
SAS54	AIREY AVENUE	KER STREET	PARISH STREET	200	VC	67.7	55,464	740
SAS540	FIRST AVENUE	FOREST AVENUE	MYRTLE STREET	675	CO	89.9	122,036	1,627
SAS541	FIRST AVENUE	MYRTLE STREET	LOCUST STREET	675	CO	93.3	126,651	1,689
SAS544	EASEMENT	STEELE STREET	MARY STREET EAST	375	VC	98.6	101,416	1,352
SAS545	STEELE STREET	FIRST AVENUE	PARK AVENUE	200	VC	85.5	70,047	934
SAS546	STEELE STREET	FIRST AVENUE	PARK AVENUE	300	VC	125.6	125,432	1,672
SAS547	STEELE STREET	FIRST AVENUE	PARK AVENUE	300	VC	112.6	112,449	1,499
SAS548	STEELE STREET	FIRST AVENUE	PARK AVENUE	375	VC	114.7	117,976	1,573
SAS549	MARY STREET EAST	FIRST AVENUE	PARK AVENUE	200	VC	86.7	71,030	947
SAS55	AIREY AVENUE	DUNWICH DRIVE	KER STREET	200	VC	33	27,036	360
SAS550	MARY STREET EAST	FIRST AVENUE	PARK AVENUE	200	VC	85.3	69,883	932
SAS551	MARY STREET EAST	FIRST AVENUE	PARK AVENUE	200	VC	88.4	72,423	966
SAS552	MARY STREET EAST	FIRST AVENUE	PARK AVENUE	200	VC	87.5	71,685	956
SAS553	MARY STREET EAST	FIRST AVENUE	PARK AVENUE	375	VC	149.3	153,564	2,048
SAS56	AIREY AVENUE	DUNWICH DRIVE	DUNWICH DRIVE	250	VC	28.2	26,476	353
SAS561	ERIE STREET	TALEQUAH STREET	PARK AVENUE	200	VC	125	102,408	1,365
SAS562	ERIE STREET	TALEQUAH STREET	PARK AVENUE	200	VC	113.4	92,904	1,239
SAS563	ERIE STREET	TALEQUAH STREET	PARK AVENUE	200	VC	118.9	97,410	1,299
SAS564	MYRTLE STREET	FIRST AVENUE	GREGORY PLACE	200	VC	59.4	48,664	649
SAS565	ERIE STREET	FIRST AVENUE	TALEQUAH STREET	200	VC	149.5	122,479	1,633
SAS567	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	375	VC	91.6	94,216	1,256
SAS568	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	375	VC	85.3	87,736	1,170
SAS569	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	375	VC	93.6	96,273	1,284
SAS57	AIREY AVENUE	DUNWICH DRIVE	DUNWICH DRIVE	250	VC	45.4	42,624	568
SAS570	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	450	VC	90.1	95,367	1,272
SAS571	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	450	VC	63.3	67,001	893
SAS572	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	450	VC	73.2	77,479	1,033
SAS573	GREGORY PLACE	MYRTLE STREET	LOCUST STREET	200	VC	61	49,975	666
SAS574	LOCUST STREET	FIRST AVENUE	GREGORY PLACE	200	VC	57.9	47,435	632
SAS575	LOCUST STREET	FIRST AVENUE	GREGORY PLACE	200	VC	62.5	51,204	683
SAS576	GREGORY PLACE	MYRTLE STREET	LOCUST STREET	200	VC	33.5	27,445	366
SAS577	MYRTLE STREET	FIRST AVENUE	GREGORY PLACE	200	VC	10.1	8,275	110
SAS58	AIREY AVENUE	DUNWICH DRIVE	DUNWICH DRIVE	250	VC	30.1	28,260	377
SAS580	SINCLAIR AVENUE	FAIRVIEW AVENUE	RIPLEY LANE	250	VC	91.4	85,812	1,144
SAS581	SINCLAIR AVENUE	FAIRVIEW AVENUE	RIPLEY LANE	250	VC	62.2	58,397	779
SAS584	SINCLAIR AVENUE	FAIRVIEW AVENUE	RIPLEY LANE	250	VC	30.5	28,635	382
SAS585	TALBOT STREET	BURWELL ROAD	YARMOUTH ROAD	375	VC	89.6	92,159	1,229
SAS586	TALBOT STREET	BURWELL ROAD	YARMOUTH ROAD	375	VC	85.8	88,250	1,177
SAS587	TALBOT STREET	BURWELL ROAD	YARMOUTH ROAD	375	VC	84.7	87,119	1,162
SAS588	TALBOT STREET	PARK AVENUE	BURWELL ROAD	450	CO	103.8	109,868	1,465
SAS589	TALBOT STREET	PARK AVENUE	BURWELL ROAD	450	CO	114.3	120,982	1,613

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS59	DUNWICH DRIVE	HOWARD PLACE	AIREY AVENUE	250	VC	36.3	34,081	454
SAS591	TALBOT STREET	FIRST AVENUE	PARK AVENUE	450	VC	91.4	96,743	1,290
SAS592	TALBOT STREET	FIRST AVENUE	PARK AVENUE	450	VC	91.4	96,743	1,290
SAS593	TALBOT STREET	FIRST AVENUE	PARK AVENUE	450	VC	125	132,308	1,764
SAS594	TALBOT STREET	FIRST AVENUE	PARK AVENUE	450	VC	102.7	108,704	1,449
SAS595	TALBOT STREET	FIRST AVENUE	PARK AVENUE	450	VC	36.6	38,740	517
SAS597	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	250	PVC	59.3	55,674	742
SAS598	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	250	PVC	59.5	55,862	745
SAS599	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	250	PVC	76	71,353	951
SAS6	PENHALE AVENUE	RAVEN AVENUE	DAVID DRIVE	200	AC	30.8	25,233	336
SAS60	DUNWICH DRIVE	AIREY AVENUE	HOWARD PLACE	250	VC	104.5	98,111	1,308
SAS600	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	250	PVC	84.8	79,615	1,062
SAS601	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	200	VC	70	57,348	765
SAS601	SINCLAIR AVENUE	FAIRVIEW AVENUE	RIPLEY LANE	200	VC	70	57,348	765
SAS602	RIPLEY LANE	HIGHVIEW DRIVE	SINCLAIR AVENUE	200	PVC	70.7	57,922	772
SAS603	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	200	PVC	54.5	44,650	595
SAS604	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	200	PVC	93.7	76,765	1,024
SAS605	EASEMENT	SINCLAIR AVENUE	FARMINGTON DRIVE	200	PVC	82.5	67,589	901
SAS606	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	200	PVC	99.6	81,598	1,088
SAS607	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	200	PVC	31.7	25,971	346
SAS608	HIGHVIEW DRIVE	RICKWOOD PLACE	RIPLEY LANE	200	PVC	16.6	13,600	181
SAS609	PALMER COURT	HIGHVIEW DRIVE	END	200	PVC	89.6	73,406	979
SAS61	DUNWICH DRIVE	AIREY AVENUE	HOWARD PLACE	250	VC	97.2	91,257	1,217
SAS610	RICE ROAD	WELLINGTON STREET	HITCH CRESCENT	200	PVC	8	6,554	87
SAS611	HIGHVIEW DRIVE	PALMER COURT	MANOR ROAD	300	PVC	88.4	88,282	1,177
SAS612	WELLINGTON STREET	RICE ROAD	MANOR ROAD	300	PVC	84.2	84,087	1,121
SAS613	COSMA COURT	GAYLORD ROAD	EAST END	300	VC	89.2	89,080	1,188
SAS614	TALBOT STREET	YARMOUTH ROAD	CASO BRIDGE	375	VC	134.1	137,930	1,839
SAS615	TALBOT STREET	YARMOUTH ROAD	CASO BRIDGE	375	VC	129	132,684	1,769
SAS616	COSMA COURT	GAYLORD ROAD	EAST END	300	VC	93.9	93,774	1,250
SAS617	COSMA COURT	GAYLORD ROAD	EAST END	300	VC	88.7	88,581	1,181
SAS619	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	375	VC	48	49,371	658
SAS62	DUNWICH DRIVE	AIREY AVENUE	HOWARD PLACE	250	VC	63.1	59,242	790
SAS623	ERIE STREET	FIFTH AVENUE	FOURTH AVENUE	300	VC	184.4	184,153	2,455
SAS624	ERIE STREET	SMITH AVENUE	FIFTH AVENUE	200	VC	33.9	27,773	370
SAS625	ERIE STREET	SMITH AVENUE	FIFTH AVENUE	300	VC	45	44,940	599
SAS628	FOREST AVENUE	ROSS STREET	SMITH AVENUE	375	VC	150.9	155,210	2,069
SAS63	DUNWICH DRIVE	AIREY AVENUE	HOWARD PLACE	250	VC	78.6	73,794	984
SAS630	LOCUST STREET	ROSS STREET	FIFTH AVENUE	250	VC	94.7	88,910	1,185
SAS632	CHURCHILL CRESCENT	CHESTNUT STREET	BRANT AVENUE	675	VC	110.3	149,728	1,996
SAS633	NULL	NULL	NULL	1050	CO	2.4	4,478	60
SAS636	BRANT AVENUE	CHURCHILL CRESCENT	THAMES STREET	200	VC	49.4	40,471	540
SAS637	BRANT AVENUE	CHURCHILL CRESCENT	THAMES STREET	200	VC	46.9	38,423	512
SAS64	DUNWICH DRIVE	HOWARD PLACE	AIREY AVENUE	250	VC	86	80,742	1,077
SAS640	CHURCHILL CRESCENT	BRANT AVENUE	SIMCOE STREET	250	VC	75.3	70,696	943
SAS641	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1050	CO	42.8	79,855	1,065
SAS642	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	200	VC	36.6	29,985	400
SAS643	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	200	VC	36.6	29,985	400

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS644	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	200	VC	36.6	29,985	400
SAS645	NULL	NULL	NULL	200	CO	5	4,096	55
SAS646	RAVINE	CHURCHILL CRESCENT	FIRST AVENUE	1050	CO	57.2	106,721	1,423
SAS648	CHESTNUT STREET	THIRD AVENUE	FIRST AVENUE	675	VC	172.8	234,569	3,128
SAS649	CHESTNUT STREET	FIFTH AVENUE	THIRD AVENUE	200	PVC	117	95,853	1,278
SAS65	HOWARD PLACE	DUNWICH DRIVE	EAST END	250	VC	58.2	54,642	729
SAS650	CHESTNUT STREET	ROSS STREET	FIFTH AVENUE	200	PVC	84.1	68,900	919
SAS651	CHESTNUT STREET	ROSS STREET	FIFTH AVENUE	200	PVC	90	73,733	983
SAS652	CHESTNUT STREET	ROSS STREET	FIFTH AVENUE	200	PVC	90.2	73,897	985
SAS653	HEMLOCK STREET	FIFTH AVENUE	FOURTH AVENUE	200	VC	102.1	83,646	1,115
SAS658	FIFTH AVENUE	CHESTNUT STREET	MAPLE STREET	200	VC	93.6	76,683	1,022
SAS659	SIMCOE STREET	CHURCHILL CRESCENT	FIRST AVENUE	200	VC	63.9	52,351	698
SAS66	DUNWICH DRIVE	AIREY AVENUE	HOWARD PLACE	250	VC	79.6	74,733	996
SAS660	CHURCHILL CRESCENT	BRANT AVENUE	SIMCOE STREET	200	VC	73.2	59,970	800
SAS662	COYNE STREET	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	90.2	73,897	985
SAS663	COYNE STREET	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	76.2	62,428	832
SAS664	COYNE STREET	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	55.5	45,469	606
SAS665	COYNE STREET	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	65.5	53,662	715
SAS666	COYNE STREET	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	67.1	54,972	733
SAS667	COYNE STREET	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	36.6	29,985	400
SAS668	CHURCHILL CRESCENT	MONTGOMERY ROAD	COYNE STREET	250	VC	57.3	53,797	717
SAS67	DUNWICH DRIVE	AIREY AVENUE	HOWARD PLACE	250	VC	15.7	14,740	197
SAS670	MONTGOMERY ROAD	ERMATINGER STREET	CHURCHILL CRESCENT	250	VC	68.6	64,406	859
SAS671	MONTGOMERY ROAD	WEST END	ERMATINGER STREET	375	VC	42.7	43,920	586
SAS672	EASEMENT	DUNKIRK DRIVE	MONTGOMERY ROAD	300	VC	68.6	68,508	913
SAS677	MEEHAN STREET	DUNKIRK DRIVE	ELM STREET	375	VC	86	88,456	1,179
SAS678	MEEHAN STREET	CHURCHILL CRESCENT	DUNKIRK DRIVE	375	VC	68.3	70,251	937
SAS679	MEEHAN STREET	CHURCHILL CRESCENT	DUNKIRK DRIVE	375	VC	64	65,828	878
SAS68	EASEMENT	ALDBOROUGH AVENUE	DUNWICH DRIVE	250	VC	83.8	78,676	1,049
SAS680	DUNKIRK DRIVE	CHURCHILL CRESCENT	MEEHAN STREET	200	VC	131.1	107,405	1,432
SAS681	DUNKIRK DRIVE	CHURCHILL CRESCENT	MEEHAN STREET	200	VC	76.2	62,428	832
SAS682	DUNKIRK DRIVE	CHURCHILL CRESCENT	MEEHAN STREET	200	VC	76.2	62,428	832
SAS69	ALDBOROUGH AVENUE	GLANWORTH AVENUE	AIREY AVENUE	300	VC	91.1	90,978	1,213
SAS690	EASEMENT	DUNKIRK DRIVE	MONTGOMERY ROAD	300	PVC	80	79,893	1,065
SAS691	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1050	CO	79.5	148,328	1,978
SAS692	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1050	CO	94	175,381	2,338
SAS694	DIEPPE DRIVE	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	73.8	60,461	806
SAS695	DIEPPE DRIVE	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	74.1	60,707	809
SAS696	DIEPPE DRIVE	DUNKIRK DRIVE	CHURCHILL CRESCENT	200	VC	94.2	77,174	1,029
SAS698	DUNKIRK DRIVE	FIFTH AVENUE	DIEPPE DRIVE	250	VC	75.9	71,259	950
SAS7	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	200	AC	76.8	62,919	839
SAS70	ALDBOROUGH AVENUE	GLANWORTH AVENUE	AIREY AVENUE	300	VC	70.4	70,306	937
SAS702	FIFTH AVENUE	DUNKIRK DRIVE	CHURCHILL CRESCENT	250	VC	88.7	83,277	1,110
SAS703	DUNKIRK DRIVE	WEST END	FIFTH AVENUE	300	VC	70.7	70,605	941
SAS704	DUNKIRK DRIVE	WEST END	FIFTH AVENUE	300	VC	79.9	79,793	1,064
SAS705	ELMINA STREET	OAK STREET	DUNKIRK DRIVE	300	VC	32.9	32,856	438
SAS706	OAK STREET	WEST END	ELMINA STREET	375	VC	73.2	75,291	1,004
SAS707	OAK STREET	WEST END	ELMINA STREET	375	VC	73.2	75,291	1,004

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS708	SPRUCE STREET	WEST END	ELMINA STREET	200	VC	48.5	39,734	530
SAS709	SPRUCE STREET	WEST END	ELMINA STREET	200	VC	72.5	59,396	792
SAS71	GLANWORTH AVENUE	THOMPSON AVENUE	ALDBOROUGH AVENUE	375	VC	47.9	49,268	657
SAS710	ELMINA STREET	CHURCHILL CRESCENT	SPRUCE STREET	250	VC	41.1	38,587	514
SAS711	ELMINA STREET	OAK STREET	CHURCHILL CRESCENT	250	VC	48.8	45,816	611
SAS712	CHURCHILL CRESCENT	FIFTH AVENUE	ELMINA STREET	200	VC	73.5	60,216	803
SAS713	CHURCHILL CRESCENT	FIFTH AVENUE	ELMINA STREET	200	VC	71.6	58,659	782
SAS714	FIFTH AVENUE	CHURCHILL CRESCENT	CYPRESS STREET	200	VC	76.2	62,428	832
SAS715	CYPRESS STREET	ELMINA STREET	FIFTH AVENUE	200	VC	73.5	60,216	803
SAS717	FIFTH AVENUE	PINE STREET	ELM STREET	200	VC	72.8	59,642	795
SAS719	PINE STREET	ELMINA STREET	FIFTH AVENUE	200	VC	72.8	59,642	795
SAS72	PARISH STREET	ALDBOROUGH AVENUE	AIREY AVENUE	200	VC	51.9	42,520	567
SAS720	PINE STREET	ELMINA STREET	FIFTH AVENUE	200	VC	76.2	62,428	832
SAS726	ELMINA STREET	PINE STREET	ELM STREET	200	VC	71.6	58,659	782
SAS727	CEDAR STREET	WEST END	ELMINA STREET	200	VC	60.7	49,729	663
SAS728	CEDAR STREET	WEST END	ELMINA STREET	200	VC	73.2	59,970	800
SAS729	ELMINA STREET	CEDAR STREET	PINE STREET	200	VC	16.8	13,764	184
SAS730	ELMINA STREET	CYPRESS STREET	CEDAR STREET	200	VC	43.3	35,474	473
SAS731	ELMINA STREET	SPRUCE STREET	CYPRESS STREET	250	VC	43.6	40,934	546
SAS733	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1050	VC	55.3	103,177	1,376
SAS734	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1050	CO	60	111,946	1,493
SAS735	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1050	CO	35	65,302	871
SAS736	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1200	CO	63.5	126,070	1,681
SAS737	RAVINE	ELMINA STREET	FIFTH AVENUE	1050	CO	109.5	204,301	2,724
SAS738	RAVINE	ELMINA STREET	FIFTH AVENUE	1050	CO	102.5	191,240	2,550
SAS739	RAVINE	RAILROAD TRACKS	ELMINA STREET	1050	CO	71.1	132,656	1,769
SAS741	WELLINGTON STREET	LYDIA STREET	SMITH AVENUE	300	PVC	35.1	35,053	467
SAS742	REGENT STREET	WEST AVENUE	WILSON AVENUE	250	VC	57.4	53,891	719
SAS743	WILSON AVENUE	REGENT STREET	CHESTER STREET	200	PVC	83.4	68,326	911
SAS75	ALDBOROUGH AVENUE	PARISH STREET	SPARTA STREET	200	VC	48.2	39,488	527
SAS754	MYRTLE STREET	WEST OF FIRST AVENUE	FIRST AVENUE	250	VC	38.4	36,052	481
SAS76	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	200	VC	61.4	50,303	671
SAS761	WELLINGTON STREET	THIRD AVENUE	SECOND AVENUE	250	VC	112.7	105,810	1,411
SAS762	WELLINGTON STREET	THIRD AVENUE	SECOND AVENUE	300	VC	94.4	94,274	1,257
SAS763	WELLINGTON STREET	FOURTH AVENUE	THIRD AVENUE	250	PVC	95.6	89,755	1,197
SAS764	WELLINGTON STREET	FOURTH AVENUE	THIRD AVENUE	300	PVC	93.2	93,075	1,241
SAS765	WELLINGTON STREET	FIFTH AVENUE	FOURTH AVENUE	300	PVC	92.5	92,376	1,232
SAS767	WELLINGTON STREET	FIFTH AVENUE	FOURTH AVENUE	300	PVC	27.7	27,663	369
SAS768	WELLINGTON STREET	FIFTH AVENUE	FOURTH AVENUE	300	PVC	65.6	65,512	873
SAS769	WELLINGTON STREET	SMITH AVENUE	FIFTH AVENUE	300	PVC	108.5	108,355	1,445
SAS77	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	200	VC	44.1	36,129	482
SAS770	WELLINGTON STREET	LYDIA STREET	SMITH AVENUE	300	PVC	54.7	54,627	728
SAS771	SMITH AVENUE	WELLINGTON STREET	ERIE STREET	200	VC	45.4	37,194	496
SAS772	SMITH AVENUE	WELLINGTON STREET	ERIE STREET	200	VC	45.7	37,440	499
SAS773	SMITH AVENUE	ERIE STREET	FOREST AVENUE	200	VC	87.8	71,931	959
SAS777	WELLINGTON STREET	ROSS STREET	LYDIA STREET	300	PVC	115	114,846	1,531
SAS778	ROSS STREET	WELLINGTON STREET	ERIE STREET	300	VC	92.5	92,376	1,232
SAS779	THIRD AVENUE	WELLINGTON STREET	NORTH END	200	PVC	14.1	11,552	154

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS78	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	200	VC	56.4	46,206	616
SAS780	SECOND AVENUE	WELLINGTON STREET	ERIE STREET	200	VC	28.3	23,185	309
SAS782	ERIE STREET	SECOND AVENUE	FIRST AVENUE	250	VC	20	18,777	250
SAS783	ERIE STREET	SECOND AVENUE	FIRST AVENUE	250	VC	24	22,533	300
SAS787	SECOND AVENUE	ERIE STREET	FOREST AVENUE	200	VC	91.2	74,717	996
SAS79	ALDBOROUGH AVENUE	SPARTA STREET	SPARTA STREET	200	VC	50.3	41,209	549
SAS791	CHESTNUT STREET	ROSS STREET	FIFTH AVENUE	200	PVC	90	73,733	983
SAS792	ROSS STREET	LOCUST STREET	CHESTNUT STREET	375	VC	93	95,656	1,275
SAS793	RAVINE	RAILROAD TRACKS	ELMINA STREET	1050	CO	70	130,603	1,741
SAS794	RAVINE	RAILROAD TRACKS	ELMINA STREET	1050	CO	35.5	66,234	883
SAS795	RAVINE	RAILROAD TRACKS	ELMINA STREET	1050	CO	57.6	107,468	1,433
SAS796	RAVINE	RAILROAD TRACKS	ELMINA STREET	1050	CO	111.6	208,219	2,776
SAS797	RAVINE	RAILROAD TRACKS	ELMINA STREET	1050	CO	48	89,556	1,194
SAS798	RAVINE	RAILROAD TRACKS	ELMINA STREET	1050	CO	60.5	112,878	1,505
SAS799	RAVINE	RAILROAD TRACKS	ELMINA STREET	1200	CO	150.3	298,400	3,979
SAS8	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	200	AC	85.6	70,129	935
SAS80	ALDBOROUGH AVENUE	SPARTA STREET	SPARTA STREET	200	VC	60	49,156	655
SAS800	RAVINE	RAILROAD TRACKS	ELMINA STREET	1200	CO	84.5	167,763	2,237
SAS801	RAVINE	RAILROAD TRACKS	ELMINA STREET	1200	CO	30	59,561	794
SAS802	RAVINE	ROSS STREET	RAILROAD TRACKS	375	CO	154	158,398	2,112
SAS803	RAVINE	ROSS STREET	RAILROAD TRACKS	450	CO	9	9,526	127
SAS804	ROSS STREET	FOREST AVENUE	MYRTLE STREET	300	VC	53	52,929	706
SAS805	ROSS STREET	FOREST AVENUE	MYRTLE STREET	450	VC	46.8	49,536	660
SAS806	RAVINE	ROSS STREET	RAILROAD TRACKS	450	CO	66.3	70,176	936
SAS807	RAVINE	ROSS STREET	RAILROAD TRACKS	450	CO	26.8	28,367	378
SAS808	RAVINE	ROSS STREET	RAILROAD TRACKS	450	CO	38.4	40,645	542
SAS809	RAVINE	ROSS STREET	RAILROAD TRACKS	450	CO	37.4	39,586	528
SAS81	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	200	VC	60.4	49,483	660
SAS810	RAVINE	ROSS STREET	RAILROAD TRACKS	450	CO	66.5	70,388	939
SAS811	RAVINE	ROSS STREET	RAILROAD TRACKS	450	CO	73.9	78,220	1,043
SAS814	NULL	NULL	NULL	250	PVC	32	30,044	401
SAS815	WAWA STREET	NAAMA STREET	OPECHEE STREET	200	VC	85.3	69,883	932
SAS816	NAAMA STREET	WAWA STREET	ROSS STREET	200	VC	108.2	88,644	1,182
SAS818	ROSS STREET	HEMLOCK STREET	NAAMA STREET	375	VC	10.7	11,006	147
SAS819	ROSS STREET	ERIE STREET	MCINTYRE STREET	375	VC	37.5	38,571	514
SAS82	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	200	VC	67.4	55,218	736
SAS820	ROSS STREET	MCINTYRE STREET	FOREST AVENUE	375	VC	32.7	33,634	448
SAS821	MCINTYRE STREET	MOORE STREET	ROSS STREET	250	VC	102.4	96,139	1,282
SAS822	TALBOT STREET	ALMA STREET	BALACLAVA STREET	300	Brick	123	122,835	1,638
SAS823	TALBOT STREET	MANITOBA STREET	ALMA STREET	450	Brick	103.7	109,762	1,463
SAS824	TALBOT STREET	HORTON STREET	MANITOBA STREET	450	Brick	86.9	91,980	1,226
SAS825	TALBOT STREET	ROSS STREET	HORTON STREET	900	Brick	71.5	109,885	1,465
SAS83	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	200	VC	67.3	55,136	735
SAS839	WELLINGTON STREET	MOORE STREET	ROSS STREET	300	PVC	58.9	58,821	784
SAS84	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	200	VC	90.2	73,897	985
SAS840	MOORE STREET	WELLINGTON STREET	MCINTYRE STREET	200	VC	109.7	89,873	1,198
SAS841	WELLINGTON STREET	MOORE STREET	ROSS STREET	200	PVC	91	74,553	994
SAS844	ROSS STREET	BARNES STREET	WELLINGTON STREET	300	VC	13.6	13,582	181

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS85	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	200	VC	11.6	9,503	127
SAS856	ELM STREET	SUNSET DRIVE	WILSON AVENUE	600	VC	24.8	28,474	380
SAS857	ELM STREET	SUNSET DRIVE	WILSON AVENUE	600	VC	67	76,927	1,026
SAS858	ELM STREET	SUNSET DRIVE	WILSON AVENUE	600	VC	86	98,742	1,317
SAS859	SUNSET DRIVE	ELM STREET	CHESTER STREET	600	DI	106.7	122,509	1,633
SAS86	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	200	VC	73.8	60,461	806
SAS862	EASEMENT	SUNSET DRIVE	KETTLE CREEK	300	DI	68.6	68,508	913
SAS863	EASEMENT	SUNSET DRIVE	KETTLE CREEK	300	DI	68.6	68,508	913
SAS865	SUNSET DRIVE	ELM STREET	CHESTER STREET	450	DI	36.6	38,740	517
SAS867	SUNSET DRIVE	ELM STREET	CHESTER STREET	450	DI	134.1	141,939	1,893
SAS868	EASEMENT	SUNSET DRIVE	WILLOW STREET	200	VC	21	17,204	229
SAS869	SUNSET DRIVE	ELM STREET	CHESTER STREET	450	DI	76.2	80,655	1,075
SAS87	ALDBOROUGH AVENUE	SPARTA STREET	PULLEN AVENUE	250	VC	43.3	40,653	542
SAS870	SUNSET DRIVE	BUSH LINE	CHESTER STREET	450	DI	61	64,566	861
SAS871	SUNSET DRIVE	BUSH LINE	CHESTER STREET	900	CO	72.7	111,730	1,490
SAS872	SUNSET DRIVE	BUSH LINE	CHESTER STREET	200	VC	46.3	37,932	506
SAS873	SUNSET DRIVE	BUSH LINE	CHESTER STREET	200	AC	88.1	72,177	962
SAS874	EASEMENT	DENISON AVENUE	RAVINE	200	CO	26.1	21,383	285
SAS875	EASEMENT	DENISON AVENUE	RAVINE	200	CO	57.6	47,189	629
SAS876	EASEMENT	DENISON AVENUE	RAVINE	200	CO	13	10,650	142
SAS877	RAVINE	ELGIN STREET	SUNSET DRIVE	1200	CO	161.9	321,430	4,286
SAS878	RAVINE	ELGIN STREET	SUNSET DRIVE	1200	CO	42.8	84,973	1,133
SAS88	ALDBOROUGH AVENUE	SPARTA STREET	PULLEN AVENUE	250	VC	50.9	47,788	637
SAS885	MARGARET STREET	PRINCE ALBERT STREET	SOUTH END	200	VC	30.4	24,906	332
SAS89	ALDBOROUGH AVENUE	PULLEN AVENUE	HOLLAND AVENUE	250	VC	26.2	24,598	328
SAS892	ROSEBERY PLACE	SOUTHWICK STREET	PRINCESS AVENUE	450	VC	15.5	16,406	219
SAS893	EASEMENT	ROSEBERY PLACE	RAILROAD TRACKS	450	VC	78.9	83,512	1,113
SAS894	EASEMENT	ROSEBERY PLACE	RAILROAD TRACKS	450	VC	22.9	24,239	323
SAS895	EASEMENT	ROSEBERY PLACE	RAILROAD TRACKS	450	VC	22.9	24,239	323
SAS896	EASEMENT	ROSEBERY PLACE	RAILROAD TRACKS	450	VC	41.5	43,926	586
SAS897	RAVINE	RAILROAD TRACKS	ELMINA STREET	1200	CO	15.6	30,972	413
SAS898	RAVINE	ELGIN STREET	RAILROAD TRACKS	900	CO	153.9	236,523	3,154
SAS899	PRINCESS AVENUE	GLADSTONE AVENUE	ROSEBERY PLACE	450	VC	107.3	113,573	1,514
SAS9	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	200	AC	75.1	61,526	820
SAS90	ALDBOROUGH AVENUE	PULLEN AVENUE	HOLLAND AVENUE	250	VC	42.7	40,089	535
SAS902	ROSEBERY PLACE	SOUTHWICK STREET	PRINCESS AVENUE	250	VC	73.2	68,725	916
SAS903	ROSEBERY PLACE	SOUTHWICK STREET	PRINCESS AVENUE	250	VC	32	30,044	401
SAS906	ROSEBERY PLACE	ELGIN STREET	HINCKS STREET	250	VC	15.2	14,271	190
SAS908	RAVINE	ELGIN STREET	SUNSET DRIVE	975	Brick	33.8	58,010	773
SAS909	RAVINE	ELGIN STREET	SUNSET DRIVE	750	CO	32	43,439	579
SAS91	ALDBOROUGH AVENUE	PULLEN AVENUE	HOLLAND AVENUE	250	VC	32.3	30,325	404
SAS910	RAVINE	ELGIN STREET	SUNSET DRIVE	750	CO	51.2	69,502	927
SAS911	RAVINE	ELGIN STREET	SUNSET DRIVE	900	CO	111.7	171,667	2,289
SAS913	SUNSET DRIVE	ELM STREET	CHESTER STREET	450	DI	70.1	74,198	989
SAS914	SUNSET DRIVE	ELM STREET	CHESTER STREET	450	VC	137.2	145,221	1,936
SAS915	SUNSET DRIVE	ELM STREET	CHESTER STREET	450	DI	85.3	90,287	1,204
SAS916	SUNSET DRIVE	ELM STREET	CHESTER STREET	450	DI	15.2	16,089	215
SAS919	CHESTER STREET	EAST AVENUE	VICTOR DRIVE	200	VC	88.4	72,423	966

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS92	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	300	VC	14.6	14,580	194
SAS920	CHESTER STREET	WILSON AVENUE	EAST AVENUE	200	PVC	110.7	90,692	1,209
SAS925	DEVONSHIRE PLACE	CHESTER STREET	SOUTH END	200	VC	103.6	84,875	1,132
SAS926	HENRY STREET	CHESTER STREET	SOUTH END	250	CO	109.7	102,993	1,373
SAS927	EASEMENT	SUNSET DRIVE	WILLOW STREET	200	VC	46.3	37,932	506
SAS928	EASEMENT	SUNSET DRIVE	WILLOW STREET	200	VC	78.6	64,394	859
SAS929	EASEMENT	SUNSET DRIVE	WILLOW STREET	200	VC	11.9	9,749	130
SAS93	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	375	VC	44.5	45,771	610
SAS930	WILSON AVENUE	CHESTER STREET	ADA STREET	200	PVC	79.8	65,377	872
SAS931	WILSON AVENUE	CHESTER STREET	ADA STREET	200	PVC	80.8	66,196	883
SAS932	WILSON AVENUE	CHESTER STREET	ADA STREET	200	PVC	66	54,071	721
SAS933	WEST AVENUE	CHESTER STREET	ADA STREET	200	VC	86.9	71,194	949
SAS934	WEST AVENUE	CHESTER STREET	ADA STREET	200	VC	117.3	96,099	1,281
SAS94	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	375	VC	28.3	29,108	388
SAS940	PRINCE ALBERT STREET	ISABEL STREET	METCALFE STREET	250	VC	96	90,131	1,202
SAS944	VICTORIA STREET	ISABEL STREET	METCALFE STREET	200	VC	173.7	142,305	1,897
SAS945	VICTORIA STREET	ISABEL STREET	METCALFE STREET	200	VC	50.3	41,209	549
SAS947	METCALFE STREET	DRAKE STREET	VICTORIA STREET	200	VC	114.6	93,887	1,252
SAS948	METCALFE STREET	VICTORIA STREET	PRINCE ALBERT STREET	200	VC	79.5	65,131	868
SAS949	METCALFE STREET	VICTORIA STREET	PRINCE ALBERT STREET	200	VC	78.3	64,148	855
SAS95	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	300	VC	41.8	41,744	557
SAS950	REGENT STREET	WEST AVENUE	WILSON AVENUE	200	VC	50.3	41,209	549
SAS953	WEST AVENUE	REGENT STREET	CHESTER STREET	200	VC	106.7	87,415	1,166
SAS955	PALM STREET	EAST AVENUE	VICTOR DRIVE	250	VC	100.6	94,449	1,259
SAS956	REGENT STREET	WILSON AVENUE	EAST AVENUE	200	VC	54.9	44,977	600
SAS957	REGENT STREET	WILSON AVENUE	EAST AVENUE	200	VC	50.3	41,209	549
SAS958	EAST AVENUE	REGENT STREET	PALM STREET	200	VC	102.1	83,646	1,115
SAS96	LAWRENCE AVENUE	CALDWELL STREET	RAVEN AVENUE	200	AC	98.1	80,369	1,072
SAS960	WILSON AVENUE	REGENT STREET	CHESTER STREET	200	PVC	73	59,806	797
SAS961	REGENT STREET	WEST AVENUE	WILSON AVENUE	200	VC	22.9	18,761	250
SAS963	METCALFE STREET	TALBOT STREET	CENTRE STREET	200	VC	87.2	71,439	953
SAS964	METCALFE STREET	CENTRE STREET	ST. ANNE'S PLACE	250	VC	70.9	66,565	888
SAS965	METCALFE STREET	ST. ANNE'S PLACE	WELLINGTON STREET	300	VC	70.3	70,206	936
SAS966	METCALFE STREET	GLADSTONE AVENUE	DRAKE STREET	200	VC	104	85,203	1,136
SAS966	METCALFE STREET	DRAKE STREET	VICTORIA STREET	200	VC	104	85,203	1,136
SAS967	METCALFE STREET	WELLINGTON STREET	GLADSTONE AVENUE	200	VC	90.9	74,471	993
SAS97	LAWRENCE AVENUE	CALDWELL STREET	RAVEN AVENUE	200	AC	78	63,902	852
SAS971	ELGIN STREET	ST. ANNE'S PLACE	WELLINGTON STREET	900	Brick	128	196,718	2,623
SAS977	HINCKS STREET	CENTRE STREET	ELIZABETH STREET	250	VC	87.5	82,150	1,095
SAS978	HINCKS STREET	ELIZABETH STREET	MITCHELL STREET	250	VC	87.5	82,150	1,095
SAS98	CALDWELL STREET	MCLARTY DRIVE	LAWRENCE AVENUE	200	AC	51.4	42,110	561
SAS99	CALDWELL STREET	MCLARTY DRIVE	LAWRENCE AVENUE	200	AC	66.6	54,563	728
SAS990	ST. ANNE'S PLACE	WILLIAM STREET	QUEEN STREET	200	VC	97.5	79,878	1,065
SAS994	STANLEY STREET	WILLIAM STREET	WELLINGTON STREET	300	PVC	31.3	31,258	417
SAS995	WELLINGTON STREET	WILLIAM STREET	QUEEN STREET	300	PVC	76.9	76,797	1,024
SAS996	WELLINGTON STREET	QUEEN STREET	METCALFE STREET	300	PVC	94.8	94,673	1,262
SAS997	WELLINGTON STREET	CROCKER AVENUE	ELGIN STREET	375	PVC	100	102,856	1,371

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1337	UKRANIAN STREET	NELSON STREET	WOODWORTH AVENUE	200	PVC	79.36	65,016	867
SAS1339	TRAFALGAR STREET	INKERMAN STREET	NELSON STREET	200	PVC	167.6	137,308	1,831
SAS1377	MALAKOFF STREET	INKERMAN STREET	WOODWORTH AVENUE	300	PVC	102.2	102,063	1,361
SAS1382	MALAKOFF STREET	WOODWORTH AVENUE	ARTHUR AVENUE	200	PVC	67.1	54,972	733
SAS1383	MALAKOFF STREET	ARTHUR AVENUE	ALEXANDRIA AVENUE	200	PVC	72.7	59,560	794
SAS1386	MALAKOFF STREET	BALACLAVA STREET	INKERMAN STREET	300	PVC	66	65,912	879
SAS1387	BALACLAVA STREET	MALAKOFF STREET	REDAN STREET	200	VC	57.29	46,935	626
SAS1393	CELESTINE STREET	HORTON STREET	MANITOBA STREET	200	PVC	94.4	77,338	1,031
SAS1638	BALACLAVA STREET	MALAKOFF STREET	REDAN STREET	200	VC	158.5	129,853	1,731
SAS1651	CRUISE STREET	WEST END	OLIVER STREET	250	PVC	54.9	51,543	687
SAS1886	OLIVER STREET	CRUISE STREET	LEILA STREET	200	PVC	4.3	3,523	47
SAS1931	MEDA STREET	HIAWATHA STREET	ST. CATHARINE STREET	250	VC	69.1	64,875	865
SAS1951	OLIVER STREET	COLLEGE STREET	CRUISE STREET	200	PVC	48.8	39,980	533
SAS1967	TRAFALGAR STREET	NELSON STREET	WOODWORTH AVENUE	200	PVC	70	57,348	765
SAS1984	MALAKOFF STREET	INKERMAN STREET	WOODWORTH AVENUE	300	PVC	102.1	101,963	1,360
SAS2171	MOORE STREET	AMELIA STREET	WELLINGTON STREET	200	PVC	70.1	57,430	766
SAS2172	MOORE STREET	AMELIA STREET	WELLINGTON STREET	200	VC	70.1	57,430	766
SAS264	COLLEGE STREET	OLIVER STREET	ROSS STREET	250	PVC	103.6	97,266	1,297
SAS2709	MALAKOFF STREET	BALACLAVA STREET	INKERMAN STREET	300	PVC	64.5	64,414	859
SAS634	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1050	CO	109.1	203,554	2,714
SAS635	RAVINE	FIFTH AVENUE	CHURCHILL CRESCENT	1050	CO	78.3	146,089	1,948
SAS744	OLIVER STREET	CRUISE STREET	LEILA STREET	200	PVC	106.7	87,415	1,166
SAS817	ROSS STREET	NAAMA STREET	WABBUN STREET	200	VC	43.91	35,974	480
SAS1001	GLADSTONE AVENUE	METCALFE STREET	ELGIN STREET	300	VC	74.7	74,600	995
SAS1281	EDWARD STREET	MANITOBA STREET	ALMA STREET	200	PVC	72.5	59,396	792
SAS1352	MANITOBA STREET	BARWICK STREET	NORTH END	200	PVC	45	36,867	492
SAS1354	MANITOBA STREET	EDWARD STREET	BARWICK STREET	300	PVC	86.5	86,384	1,152
SAS1355	MANITOBA STREET	EDWARD STREET	KAINS STREET	300	PVC	82.5	82,389	1,099
SAS1356	MANITOBA STREET	EDWARD STREET	KAINS STREET	300	PVC	75.3	75,199	1,003
SAS1357	MANITOBA STREET	KAINS STREET	EDWARD STREET	300	PVC	94.2	94,074	1,254
SAS1358	MANITOBA STREET	KAINS STREET	EDWARD STREET	300	PVC	92.6	92,476	1,233
SAS1380	WOODWORTH AVENUE	TALBOT STREET	WELDON AVENUE	300	VC	108.2	108,055	1,441
SAS1381	WOODWORTH AVENUE	WELDON AVENUE	MALAKOFF STREET	300	VC	88.4	88,282	1,177
SAS1395	KAINS STREET	HUGHES STREET	MANITOBA STREET	450	PVC	100.6	106,481	1,420
SAS1396	KAINS STREET	HORTON STREET	HUGHES STREET	450	PVC	30.5	32,283	430
SAS1397	KAINS STREET	YARWOOD STREET	HORTON STREET	450	PVC	73.2	77,479	1,033
SAS1398	KAINS STREET	FLORA STREET	YARWOOD STREET	450	PVC	79.2	83,830	1,118
SAS1459	SCOTT STREET	EAST STREET	PEARL STREET	200	CO	73.2	59,970	800
SAS1646	WELLINGTON STREET	METCALFE STREET	CROCKER AVENUE	375	PVC	96.4	99,153	1,322
SAS1647	CROCKER AVENUE	ST. ANNE'S PLACE	WELLINGTON STREET	150	VC	90.5	74,143	989
SAS1822	MANITOBA STREET	KAINS STREET	EDWARD STREET	300	PVC	100.5	100,365	1,338
SAS1930	MANITOBA STREET	EDWARD STREET	KAINS STREET	300	PVC	4.2	4,194	56
SAS2788	ELM STREET	NEAL AVENUE	PEACH TREE BOULEVARD	450	PVC	92.3	97,696	1,303
SAS3296	NULL	NULL	NULL	200	PVC	51.3	42,028	560
SAS503	WELLINGTON STREET	HUNTINGTON TERRACE	FAIRVIEW AVENUE	300	VC	30.4	30,359	405
SAS504	WELLINGTON STREET	PARK AVENUE	HUNTINGTON TERRACE	300	VC	44.3	44,241	590
SAS505	WELLINGTON STREET	PARK AVENUE	HUNTINGTON TERRACE	300	VC	72.7	72,603	968
SAS536	WELLINGTON STREET	PARK AVENUE	HUNTINGTON TERRACE	300	VC	73.6	73,501	980

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS554	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	300	VC	89.3	89,180	1,189
SAS555	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	300	VC	89.8	89,680	1,196
SAS556	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	300	VC	88.3	88,182	1,176
SAS557	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	300	VC	88.8	88,681	1,182
SAS558	WELLINGTON STREET	FIRST AVENUE	TALEQUAH STREET	300	VC	25.3	25,266	337
SAS559	WELLINGTON STREET	FIRST AVENUE	TALEQUAH STREET	300	VC	66.8	66,710	889
SAS560	WELLINGTON STREET	FIRST AVENUE	TALEQUAH STREET	300	VC	12.2	12,184	162
SAS684	CHURCHILL CRESCENT	ERMATINGER STREET	MEEHAN STREET	375	VC	38.1	39,188	523
SAS749	ROSS STREET	LEILA STREET	MAPLE STREET	375	VC	61	62,742	837
SAS751	ROSS STREET	CHESTNUT STREET	LEILA STREET	375	PVC	32.3	33,222	443
SAS907	ELGIN STREET	ROSEBERY PLACE	DENISON AVENUE	975	VC	40	68,650	915
SAS907	ELGIN STREET	GLADSTONE AVENUE	ROSEBERY PLACE	975	VC	40	68,650	915
SAS1013	TALBOT ROAD	KING STREET	CHURCH STREET	200	VC	146.3	119,858	1,598
SAS1014	TALBOT ROAD	CHURCH STREET	STANLEY STREET	200	VC	73.2	59,970	800
SAS1038	MITCHELL STREET	WHITE STREET	PRINCESS AVENUE	200	VC	169.2	138,619	1,848
SAS1043	ELIZABETH STREET	HINCKS STREET	SOUTHWICK STREET	200	VC	109.7	89,873	1,198
SAS1045	MITCHELL STREET	HINCKS STREET	SOUTHWICK STREET	200	VC	115.8	94,870	1,265
SAS1055	SOUTHWICK STREET	CENTRE STREET	ELIZABETH STREET	200	VC	86.9	71,194	949
SAS1056	SOUTHWICK STREET	ELIZABETH STREET	MITCHELL STREET	200	VC	89.9	73,651	982
SAS1057	SOUTHWICK STREET	MITCHELL STREET	WELLINGTON STREET	200	VC	91.4	74,880	998
SAS1078	QUEEN STREET	TALBOT STREET	CENTRE STREET	200	VC	103.6	84,875	1,132
SAS1080	EASEMENT	CHURCHILL CRESCENT	THAMES STREET	200	VC	71.3	58,413	779
SAS1240	BALACLAVA STREET	HAMMOND STREET	SOUTH EDGEWARE ROAD	300	VC	84.6	84,487	1,126
SAS1255	HAMMOND STREET	INKERMAN STREET	WOODWORTH AVENUE	250	AC	102.7	96,421	1,286
SAS1258	WOODWORTH AVENUE	PATRICIA STREET	SOUTH EDGEWARE ROAD	300	VC	99.1	98,967	1,320
SAS127	LAWRENCE AVENUE	BUTLER DRIVE	MAJESTIC COURT	200	AC	43	35,228	470
SAS128	LAWRENCE AVENUE	BUTLER DRIVE	BUTLER DRIVE	200	AC	84.1	68,900	919
SAS1287	EDWARD STREET	WOODWORTH AVENUE	FIRST AVENUE	400	AC	1007.1	1,065,975	14,213
SAS1287	WOODWORTH AVENUE	EDWARD STREET	DANIEL STREET	400	AC	1007.1	1,065,975	14,213
SAS1287	WOODWORTH AVENUE	JOYCE STREET	HAMMOND STREET	400	AC	1007.1	1,065,975	14,213
SAS129	LAWRENCE AVENUE	BUTLER DRIVE	CHANT STREET	200	AC	69.9	57,266	764
SAS1296	JOYCE STREET	WOODWORTH AVENUE	FRISCH STREET	200	CO	67.1	54,972	733
SAS1314	INKERMAN STREET	NOLAN STREET	EDWARD STREET	200	VC	108.2	88,644	1,182
SAS1322	BALACLAVA STREET	REDAN STREET	NOLAN STREET	200	PVC	103.6	84,875	1,132
SAS1329	ARTHUR AVENUE	REDAN STREET	NORTH END	200	VC	121.9	99,868	1,332
SAS1331	REDAN STREET	WOODWORTH AVENUE	ARTHUR AVENUE	200	VC	103.6	84,875	1,132
SAS1332	WOODWORTH AVENUE	EDWARD STREET	REDAN STREET	200	VC	74.7	61,199	816
SAS1333	WOODWORTH AVENUE	EDWARD STREET	REDAN STREET	200	VC	82.9	67,917	906
SAS1341	REDAN STREET	INKERMAN STREET	NELSON STREET	300	PVC	68.6	68,508	913
SAS1344	REDAN STREET	MILLER STREET	INKERMAN STREET	300	PVC	64.9	64,813	864
SAS1345	MILLER STREET	NOLAN STREET	REDAN STREET	250	VC	71.6	67,222	896
SAS1347	REDAN STREET	BALACLAVA STREET	MILLER STREET	300	PVC	64	63,914	852
SAS1363	ARTHUR AVENUE	REDAN STREET	MALAKOFF STREET	200	VC	72.2	59,151	789
SAS1364	ARTHUR AVENUE	REDAN STREET	MALAKOFF STREET	200	VC	71.3	58,413	779
SAS1375	INKERMAN STREET	MALAKOFF STREET	TRAFALGAR STREET	200	VC	95.4	78,157	1,042
SAS1388	BALACLAVA STREET	TALBOT STREET	MALAKOFF STREET	200	VC	85.1	69,719	930
SAS1400	KAINS STREET	JOHN STREET	FLORA STREET	375	VC	42.7	43,920	586
SAS1405	FLORA STREET	TALBOT STREET	KAINS STREET	250	CO	109.7	102,993	1,373

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1407	JOHN STREET	TALBOT STREET	KAINS STREET	250	VC	72.5	68,067	908
SAS1414	HUGHES STREET	BARWICK STREET	WOLFE STREET	200	CO	45.5	37,276	497
SAS1419	BURROWS AVENUE	ELYSIAN STREET	CORA STREET	250	VC	73.2	68,725	916
SAS1421	NEW STREET	TALBOT STREET	CURTIS STREET	200	VC	94.5	77,420	1,032
SAS1435	PEARL STREET	TALBOT STREET	CURTIS STREET	200	VC	93.3	76,437	1,019
SAS1438	CURTIS STREET	MARY STREET	HIAWATHA STREET	250	VC	107.9	101,303	1,351
SAS1440	PENWARDEN STREET	SCOTT STREET	ELYSIAN STREET	200	VC	74.5	61,035	814
SAS1442	SCOTT STREET	JACKSON STREET	PENWARDEN STREET	250	CO	25	23,472	313
SAS1444	JACKSON STREET	SCOTT STREET	JESSIE STREET	200	VC	89.9	73,651	982
SAS1445	SCOTT STREET	MARY STREET	JACKSON STREET	250	CO	103.6	97,266	1,297
SAS1445	SCOTT STREET	HAMILTON STREET	MARY STREET	250	CO	103.6	97,266	1,297
SAS1446	HAMILTON STREET	SCOTT STREET	JESSIE STREET	200	VC	63.6	52,105	695
SAS1447	SCOTT STREET	HIAWATHA STREET	HAMILTON STREET	250	CO	91.4	85,812	1,144
SAS1448	SCOTT STREET	HIAWATHA STREET	HAMILTON STREET	250	VC	58.5	54,923	732
SAS1449	HIAWATHA STREET	CURTIS STREET	SCOTT STREET	400	VC	97.3	102,988	1,373
SAS1454	ST. CATHARINE STREET	TALBOT STREET	CURTIS STREET	450	VC	97.5	103,200	1,376
SAS1457	ELYSIAN STREET	EAST STREET	PENWARDEN STREET	200	VC	60.4	49,483	660
SAS1458	EAST STREET	SCOTT STREET	ELYSIAN STREET	250	VC	84.6	79,428	1,059
SAS1466	CURTIS STREET	ST. GEORGE STREET	PEARL STREET	200	VC	89.3	73,160	975
SAS1467	SCOTT STREET	PEARL STREET	ST. GEORGE STREET	200	CO	91.4	74,880	998
SAS1469	PEARL STREET	CURTIS STREET	SCOTT STREET	200	VC	88.4	72,423	966
SAS1475	JACKSON STREET	JESSIE STREET	NORTH END	200	VC	61	49,975	666
SAS1476	JACKSON STREET	JESSIE STREET	NORTH END	300	PVC	97.4	97,269	1,297
SAS1477	JESSIE STREET	JACKSON STREET	HAMILTON STREET	200	VC	73.2	59,970	800
SAS1478	EASEMENT	JESSIE STREET	HIAWATHA STREET	200	VC	97.5	79,878	1,065
SAS1479	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	300	VC	76.2	76,098	1,015
SAS1480	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	300	PVC	14.3	14,281	190
SAS1482	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	300	PVC	53.8	53,728	716
SAS1492	HIAWATHA STREET	MEDA STREET	NORTH END	250	VC	54.9	51,543	687
SAS1497	MEDA STREET	HIAWATHA STREET	ST. CATHARINE STREET	250	VC	104	97,641	1,302
SAS1500	ST. CATHARINE STREET	BEVERLEY STREET	MEDA STREET	300	VC	70.1	70,006	933
SAS1501	BEVERLEY STREET	MONDAMIN STREET	ST. CATHARINE STREET	200	VC	118.9	97,410	1,299
SAS1502	ST. CATHARINE STREET	ANTRIM STREET	BEVERLEY STREET	300	VC	42.7	42,643	569
SAS1506	ST. CATHARINE STREET	EAGLE STREET	ANTRIM STREET	450	VC	90.2	95,473	1,273
SAS1512	KAINS STREET	STATION STREET	JOHN STREET	375	VC	54.9	56,468	753
SAS1513	KAINS STREET	ST. CATHARINE STREET	STATION STREET	375	VC	54.9	56,468	753
SAS1611	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	300	VC	40.7	40,645	542
SAS1619	EASEMENT	OAK STREET	RAVINE	300	VC	22	21,971	293
SAS1624	MAPLE STREET	ROSS STREET	FIFTH AVENUE	200	VC	182.9	149,843	1,998
SAS1631	CHESTER STREET	HENRY STREET	DEVONSHIRE PLACE	200	PVC	64	52,433	699
SAS1643	EASEMENT	FARLEY PLACE	RAVINE	200	VC	7.3	5,981	80
SAS1644	FARLEY PLACE	STANLEY STREET	SOUTH END	200	VC	140.2	114,860	1,531
SAS1721	EAST STREET	SCOTT STREET	ELYSIAN STREET	250	VC	61.7	57,928	772
SAS1813	ANTRIM STREET	MONDAMIN STREET	ST. CATHARINE STREET	200	VC	63.4	51,941	693
SAS1883	INKERMAN STREET	TRAFALGAR STREET	REDAN STREET	200	VC	103.6	84,875	1,132
SAS1891	HEMLOCK STREET	ELMINA STREET	FIFTH AVENUE	200	VC	80.5	65,950	879
SAS1906	ELIZABETH STREET	WHITE STREET	PRINCESS AVENUE	150	VC	98.3	80,533	1,074

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS1920	EASEMENT	OAK STREET	RAVINE	300	VC	48	47,936	639
SAS1921	EASEMENT	OAK STREET	RAVINE	200	VC	20	16,385	218
SAS1945	SUNSET DRIVE	GLENBANNER STREET	ELM STREET	450	DI	118.3	125,216	1,670
SAS1948	HEMLOCK STREET	ELMINA STREET	FIFTH AVENUE	250	VC	81.7	76,705	1,023
SAS1949	MAPLE STREET	ROSS STREET	FIFTH AVENUE	200	VC	61.8	50,630	675
SAS1950	MAPLE STREET	ROSS STREET	FIFTH AVENUE	200	VC	87.6	71,767	957
SAS1974	MARGARET STREET	PRINCE ALBERT STREET	SOUTH END	200	VC	89.4	73,242	977
SAS1977	METCALFE STREET	CENTRE STREET	ST. ANNE'S PLACE	250	VC	66.7	62,622	835
SAS1978	METCALFE STREET	ST. ANNE'S PLACE	WELLINGTON STREET	300	VC	71.2	71,105	948
SAS1987	BALACLAVA STREET	TALBOT STREET	MALAKOFF STREET	200	VC	84.2	68,982	920
SAS2043	EASEMENT	FLORA STREET	MARIAM STREET	200	VC	125	102,408	1,365
SAS2044	EASEMENT	STATION STREET	FLORA STREET	200	VC	150	122,889	1,639
SAS2056	VICTORIA STREET	STANLEY STREET	MARGARET STREET	200	VC	100	81,926	1,092
SAS2062	TALBOT STREET	INKERMAN STREET	WOODWORTH AVENUE	300	VC	202.6	202,329	2,698
SAS2063	TALBOT STREET	INKERMAN STREET	WOODWORTH AVENUE	300	VC	3	2,996	40
SAS2098	NELSON STREET	UKRANIAN STREET	REDAN STREET	200	VC	60.9	49,893	665
SAS2100	CURTIS STREET	HIAWATHA STREET	MONDAMIN STREET	250	VC	79.2	74,358	991
SAS2104	EAST STREET	ELYSIAN STREET	NORTH END	200	VC	22.8	18,679	249
SAS2106	PEARL STREET	SCOTT STREET	ELYSIAN STREET	200	VC	68.2	55,874	745
SAS2107	PEARL STREET	SCOTT STREET	ELYSIAN STREET	200	VC	48.2	39,488	527
SAS2108	CURTIS STREET	EAST STREET	MARY STREET	250	VC	77.7	72,949	973
SAS2109	CURTIS STREET	EAST STREET	MARY STREET	250	VC	76.2	71,541	954
SAS2112	OWAISSA STREET	HIAWATHA STREET	WEST END	200	VC	88.3	72,341	965
SAS2114	BARWICK STREET	HUGHES STREET	FLORA STREET	250	VC	82	76,987	1,026
SAS2115	BARWICK STREET	HUGHES STREET	FLORA STREET	250	VC	82	76,987	1,026
SAS2120	ARTHUR AVENUE	TALBOT STREET	MALAKOFF STREET	250	VC	107	100,458	1,339
SAS2137	ST. ANNE'S PLACE	METCALFE STREET	CROCKER AVENUE	200	VC	35	28,674	382
SAS2138	ST. ANNE'S PLACE	CROCKER AVENUE	ELGIN STREET	200	VC	112.7	92,331	1,231
SAS2140	ROSEBERY PLACE	HINCKS STREET	SOUTHWICK STREET	250	VC	76	71,353	951
SAS2141	ROSEBERY PLACE	HINCKS STREET	SOUTHWICK STREET	250	VC	85	79,803	1,064
SAS2143	MITCHELL STREET	SOUTHWICK STREET	WHITE STREET	200	VC	96	78,649	1,049
SAS2144	ELIZABETH STREET	SOUTHWICK STREET	WHITE STREET	200	PVC	88.3	72,341	965
SAS2145	ELIZABETH STREET	SOUTHWICK STREET	WHITE STREET	200	PVC	103.6	84,875	1,132
SAS2154	EAST STREET	ELYSIAN STREET	NORTH END	250	VC	9.1	8,544	114
SAS2155	EAST STREET	ELYSIAN STREET	NORTH END	250	VC	22.9	21,500	287
SAS2176	FIFTH AVENUE	MYRTLE STREET	LOCUST STREET	200	VC	30.5	24,987	333
SAS2177	FIFTH AVENUE	MYRTLE STREET	LOCUST STREET	200	VC	30.5	24,987	333
SAS2245	ERIE STREET	SECOND AVENUE	FIRST AVENUE	250	VC	74.7	70,133	935
SAS2246	MYRTLE STREET	WEST OF FIRST AVENUE	FIRST AVENUE	250	VC	83	77,925	1,039
SAS2254	ISABEL STREET HILLSIDE	PRINCE ALBERT STREET	SOUTH END	250	VC	72.93	68,471	913
SAS247	FOURTH AVENUE	WELLINGTON STREET	ERIE STREET	375	VC	92.7	95,348	1,271
SAS256	THIRD AVENUE	FOREST AVENUE	MYRTLE STREET	200	VC	97.5	79,878	1,065
SAS258	THIRD AVENUE	ERIE STREET	FOREST AVENUE	200	VC	76.2	62,428	832
SAS304	MCCULLY DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	200	VC	88.7	72,668	969
SAS543	MYRTLE STREET	FIRST AVENUE	GREGORY PLACE	200	VC	135.6	111,092	1,481
SAS578	MYRTLE STREET	FIRST AVENUE	GREGORY PLACE	200	VC	73.2	59,970	800
SAS582	SINCLAIR AVENUE	FAIRVIEW AVENUE	RIPLEY LANE	250	VC	60.4	56,707	756

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS638	CHURCHILL CRESCENT	CHESTNUT STREET	BRANT AVENUE	200	VC	50.3	41,209	549
SAS639	CHURCHILL CRESCENT	BRANT AVENUE	SIMCOE STREET	250	VC	79.2	74,358	991
SAS654	HEMLOCK STREET	ELMINA STREET	FIFTH AVENUE	200	VC	91.4	74,880	998
SAS655	FIFTH AVENUE	MAPLE STREET	HEMLOCK STREET	200	VC	93.6	76,683	1,022
SAS656	MAPLE STREET	FIFTH AVENUE	FOURTH AVENUE	200	VC	119.5	97,902	1,305
SAS657	MAPLE STREET	ROSS STREET	FIFTH AVENUE	200	VC	161.5	132,310	1,764
SAS669	MONTGOMERY ROAD	ERMATINGER STREET	CHURCHILL CRESCENT	250	VC	57.9	54,360	725
SAS693	DIEPPE DRIVE	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	76.2	62,428	832
SAS697	DUNKIRK DRIVE	FIFTH AVENUE	DIEPPE DRIVE	200	VC	79.6	65,213	870
SAS699	DIEPPE DRIVE	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	71.6	58,659	782
SAS700	DIEPPE DRIVE	CHURCHILL CRESCENT	CHURCHILL CRESCENT	200	VC	73.8	60,461	806
SAS716	CYPRESS STREET	ELMINA STREET	FIFTH AVENUE	200	VC	73.2	59,970	800
SAS718	FIFTH AVENUE	CYPRESS STREET	PINE STREET	200	VC	76.2	62,428	832
SAS73	ALDBOROUGH AVENUE	FAIRVIEW AVENUE	PARISH STREET	200	VC	48.9	40,062	534
SAS74	ALDBOROUGH AVENUE	PARISH STREET	SPARTA STREET	200	VC	38.4	31,460	419
SAS746	ROSS STREET	MABEL STREET	NAAMA STREET	375	VC	48.8	50,194	669
SAS747	MABEL STREET	WAWA STREET	ROSS STREET	200	VC	128	104,865	1,398
SAS748	ROSS STREET	MAPLE STREET	MABEL STREET	375	VC	44.2	45,462	606
SAS750	LEILA STREET	OLIVER STREET	ROSS STREET	200	VC	97.5	79,878	1,065
SAS774	FIFTH AVENUE	LOCUST STREET	CHESTNUT STREET	200	VC	90.5	74,143	989
SAS776	FIFTH AVENUE	WELLINGTON STREET	ERIE STREET	200	VC	80.8	66,196	883
SAS784	ERIE STREET	THIRD AVENUE	SECOND AVENUE	300	VC	97.5	97,369	1,298
SAS785	ERIE STREET	THIRD AVENUE	SECOND AVENUE	300	VC	92.8	92,676	1,236
SAS788	SECOND AVENUE	WELLINGTON STREET	ERIE STREET	200	VC	65	53,252	710
SAS813	CRUISE STREET	WEST END	OLIVER STREET	250	PVC	44.2	41,498	553
SAS829	TALBOT STREET	ARTHUR AVENUE	ALEXANDRIA AVENUE	250	VC	27.7	26,006	347
SAS830	TALBOT STREET	ALEXANDRIA AVENUE	FIRST AVENUE	250	VC	43.9	41,216	550
SAS831	TALBOT STREET	ARTHUR AVENUE	ALEXANDRIA AVENUE	250	VC	80.8	75,860	1,011
SAS832	TALBOT STREET	WOODWORTH AVENUE	ARTHUR AVENUE	250	VC	112.7	105,810	1,411
SAS846	AMELIA STREET	MILL STREET	ROSS STREET	200	VC	15	12,289	164
SAS860	SUNSET DRIVE	ELM STREET	CHESTER STREET	600	DI	106.7	122,509	1,633
SAS861	SUNSET DRIVE	ELM STREET	CHESTER STREET	600	DI	114.3	131,235	1,750
SAS879	EASEMENT	DENISON AVENUE	RAVINE	200	CO	40	32,770	437
SAS887	BALFOUR STREET	WEST END	DEVONSHIRE PLACE	375	VC	61	62,742	837
SAS888	BALFOUR STREET	WEST END	DEVONSHIRE PLACE	375	VC	155.3	159,735	2,130
SAS900	ROSEBERY PLACE	SOUTHWICK STREET	PRINCESS AVENUE	250	VC	100.6	94,449	1,259
SAS905	ROSEBERY PLACE	ELGIN STREET	HINCKS STREET	250	VC	86.9	81,587	1,088
SAS912	SUNSET DRIVE	ELM STREET	CHESTER STREET	600	VC	9.1	10,448	139
SAS917	CHESTER STREET	WILLOW STREET	HENRY STREET	200	PVC	73.2	59,970	800
SAS918	CHESTER STREET	HENRY STREET	DEVONSHIRE PLACE	200	PVC	64	52,433	699
SAS921	CHESTER STREET	WEST AVENUE	WILSON AVENUE	200	VC	102.1	83,646	1,115
SAS922	CHESTER STREET	DEVONSHIRE PLACE	WEST AVENUE	200	VC	96	78,649	1,049
SAS939	MARGARET STREET	VICTORIA STREET	PRINCE ALBERT STREET	200	VC	92.2	75,536	1,007
SAS954	WEST AVENUE	REGENT STREET	CHESTER STREET	200	VC	113.4	92,904	1,239
SAS959	EAST AVENUE	PALM STREET	CHESTER STREET	200	VC	120.4	98,639	1,315
SAS979	HINCKS STREET	MITCHELL STREET	WELLINGTON STREET	250	VC	93.6	87,877	1,172
SAS980	HINCKS STREET	WELLINGTON STREET	GLADSTONE AVENUE	200	VC	45.7	37,440	499
SAS984	WILLIAM STREET	CENTRE STREET	ST. ANNE'S PLACE	200	VC	68.6	56,201	749

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS991	ST. ANNE'S PLACE	QUEEN STREET	METCALFE STREET	200	VC	94.5	77,420	1,032
SAS999	GLADSTONE AVENUE	STANLEY STREET	METCALFE STREET	300	VC	110.4	110,252	1,470
SAS1519	NULL	NULL	NULL	300	PVC	68	67,909	905
SAS1633	WELLINGTON STREET	HINCKS STREET	SOUTHWICK STREET	375	PVC	70.1	72,102	961
SAS2869	CIDER MILL LANE	PEACH TREE BOULEVARD	END	200	PVC	57.1	46,780	624
SAS2870	CIDER MILL LANE	PEACH TREE BOULEVARD	END	200	PVC	77.8	63,738	850
SAS2871	CIDER MILL LANE	PEACH TREE BOULEVARD	END	200	PVC	74.9	61,363	818
SAS2872	SOUTHGATE PARKWAY	PENHALE AVENUE	BLAIRMONT TERRACE	250	PVC	41	38,493	513
SAS2873	SOUTHGATE PARKWAY	BLAIRMONT TERRACE	HAMPSTEAD COURT	250	PVC	90.4	84,873	1,132
SAS2874	SOUTHGATE PARKWAY	HAMPSTEAD COURT	PEACH TREE BOULEVARD	250	PVC	76.7	72,011	960
SAS2875	CAROLINA CRESCENT	PEACH TREE BOULEVARD	ARBOR TRAIL	200	PVC	52.8	43,257	577
SAS2876	PEACH TREE BOULEVARD	EMPIRE PARKWAY	CAROLINA CRESCENT	200	PVC	90	73,733	983
SAS2877	PEACH TREE BOULEVARD	CAROLINA CRESCENT	CAROLINA CRESCENT	250	PVC	63.3	59,430	792
SAS2878	BLAIRMONT TERRACE	SOUTHGATE PARKWAY	BEND	200	PVC	89.3	73,160	975
SAS2879	BLAIRMONT TERRACE	SOUTHGATE PARKWAY	BEND	200	PVC	105.1	86,104	1,148
SAS2880	BLAIRMONT TERRACE	SOUTHGATE PARKWAY	BEND	200	PVC	73.5	60,216	803
SAS2881	BLAIRMONT TERRACE	SOUTHGATE PARKWAY	BEND	200	PVC	32.5	26,626	355
SAS2882	HAMPSTEAD COURT	SOUTHGATE PARKWAY	END	200	PVC	72	58,987	786
SAS2883	HAMPSTEAD COURT	SOUTHGATE PARKWAY	END	200	PVC	84.6	69,309	924
SAS2884	HAMPSTEAD COURT	SOUTHGATE PARKWAY	END	200	PVC	80.3	65,787	877
SAS2885	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	200	PVC	34.4	28,183	376
SAS2886	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	200	PVC	106.2	87,005	1,160
SAS2887	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	200	PVC	89.6	73,406	979
SAS2888	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	200	PVC	35.7	29,248	390
SAS2889	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	200	PVC	75.7	62,018	827
SAS2890	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	200	PVC	75.9	62,182	829
SAS2891	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	200	PVC	79.1	64,803	864
SAS2892	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	200	PVC	79.1	64,803	864
SAS2893	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	200	PVC	54.7	44,814	598
SAS2907	ELM STREET	ELMWOOD AVENUE	CITY LIMITS	450	PVC	66.3	70,176	936
SAS2912	PEACH TREE BOULEVARD	RAVEN AVENUE	RUSSET LANE	200	PVC	62.5	51,204	683
SAS2915	RUSSET LANE	PEACH TREE BOULEVARD	END	200	PVC	110	90,119	1,202
SAS2916	RUSSET LANE	PEACH TREE BOULEVARD	END	200	PVC	32.8	26,872	358
SAS2921	NULL	NULL	NULL	250	VC	15	14,083	188
SAS2922	NULL	NULL	NULL	450	VC	15.24	16,131	215
SAS2923	NULL	NULL	NULL	375	CO	12	12,343	165
SAS2924	CENTRE STREET	METCALFE STREET	ELGIN STREET	250	VC	85.99	80,733	1,076
SAS2926	NULL	NULL	NULL	150	DI	127.8	104,701	1,396
SAS2927	MITCHELL STREET	WHITE STREET	PRINCESS AVENUE	200	VC	5.2	4,260	57
SAS2929	NULL	NULL	NULL	400	AC	13.77	14,575	194
SAS2930	NULL	NULL	NULL	300	CO	31.3	31,258	417
SAS2932	NULL	NULL	NULL	250	VC	6.7	6,290	84
SAS2933	NULL	NULL	NULL	250	VC	1.7	1,596	21
SAS2934	NULL	NULL	NULL	300	VC	12.6	12,583	168
SAS2936	NULL	NULL	NULL	300	PVC	2.75	2,746	37

LIFECYCLE ANALYSIS - SANITARY SEWER PIPE NETWORK								
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH (M)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SAS2937	GLADSTONE AVENUE	SOUTHWICK STREET	PRINCESS AVENUE	450	VC	11	11,643	155
SAS2982	BLAIRMONT TERRACE	BEND	PEACH TREE BOULEVARD	200	PVC	21.4	17,532	234
SAS2983	BLAIRMONT TERRACE	BEND	PEACH TREE BOULEVARD	200	PVC	73.6	60,298	804
SAS2984	BLAIRMONT TERRACE	BEND	PEACH TREE BOULEVARD	200	PVC	84.6	69,309	924
SAS2991	TURNBERRY COURT	OAKMONT STREET	END	200	PVC	33.2	27,199	363
SAS2992	TURNBERRY COURT	OAKMONT STREET	END	200	PVC	93.4	76,519	1,020
SAS2993	OAKMONT STREET	TURNBERRY COURT	DORAL COURT	200	PVC	49.7	40,717	543
SAS2994	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	200	PVC	33.6	27,527	367
SAS2995	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	200	PVC	27.3	22,366	298
SAS2996	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	200	PVC	18.5	15,156	202
SAS2997	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	200	PVC	42.7	34,982	466
SAS2998	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	200	PVC	54.6	44,732	596
SAS3013	MARTINGALE TERRACE	PEACH TREE BOULEVARD	END	200	PVC	50	40,963	546
SAS3014	MARTINGALE TERRACE	PEACH TREE BOULEVARD	END	200	PVC	94.7	77,584	1,034
SAS3015	MARTINGALE TERRACE	PEACH TREE BOULEVARD	END	200	PVC	78.2	64,066	854
SAS3172	ADA STREET	WEST AVENUE	WILSON AVENUE	200	PVC	69	56,529	754
SAS3173	AMELIA STREET	MOORE STREET	ROSS STREET	200	PVC	34.7	28,428	379
SAS3175	AMELIA STREET	MOORE STREET	ROSS STREET	200	PVC	30.8	25,233	336
SAS3176	MOORE STREET	AMELIA STREET	WELLINGTON STREET	200	PVC	4	3,277	44
SAS3297	TAMARACK COURT	PINE VALLEY DRIVE	WEST END	200	PVC	55.3	45,305	604
SAS3298	TAMARACK COURT	PINE VALLEY DRIVE	WEST END	200	PVC	13.5	11,060	147
SAS3302	ELM STREET	BAILEY AVENUE	RENAISSANCE DRIVE	200	PVC	76.5	62,673	836
SAS3303	ELM STREET	BAILEY AVENUE	RENAISSANCE DRIVE	200	PVC	97.6	79,960	1,066
SAS3304	ELM STREET	RENAISSANCE DRIVE	COULTER AVENUE	200	PVC	95.6	78,321	1,044
SAS3305	ELM STREET	COULTER AVENUE	CENTENNIAL LINE	250	PVC	119.6	112,288	1,497
SAS3306	ELM STREET	COULTER AVENUE	CENTENNIAL LINE	250	PVC	80.8	75,860	1,011
SAS3444	HEDGES COURT	WELLINGTON STREET	END	200	PVC	20	16,385	218
SAS3445	HEDGES COURT	WELLINGTON STREET	END	200	PVC	83	67,999	907
SAS3446	SUTHERLAND COURT	PINE VALLEY DRIVE	CITY LIMITS	200	PVC	89.6	73,406	979
SAS3447	SUTHERLAND COURT	PINE VALLEY DRIVE	CITY LIMITS	200	PVC	84	68,818	918
SAS3471	FAIRVIEW AVENUE	ELM STREET	ALDBOROUGH AVENUE	250	VC	14	13,144	175
TOTALS						206,746	191,448,826	2,552,651

LIFECYCLE ANALYSIS - WPCP and MAJOR PROCESS EQUIPMENT		
Asset ID	Replacement Estimate (2022\$)	Annual Lifecycle Contribution - Sanitary
BIOSOLIDS TREATMENT (LYSTEK)	11,705,831	234,117
PCP STANDBY POWER	726,447	14,529
WPCP1	100,591,182	1,341,216
TOTAL	113,023,460	1,589,861

LIFECYCLE ANALYSIS - SANITARY SEWER PUMP STATIONS					
Asset ID	Asset Name	Capacity L/s	# of Pumps	Replacement Estimate (2022 \$)	Annual Lifecycle Contribution
PS01	Harper Road SPS	21	2	956,800	14,720
PS03	Wolfe Street SPS	19.7	2	956,800	14,720
PS04	Woodworth Avenue SPS	202	3	2,990,000	46,000
PS06	Confederation Drive SPS	50.47	2	1,794,000	27,600
PS07	Sunset Drive SPS	23	2	956,800	14,720
PS08	Parkside Drive SPS	14.5	2	956,800	14,720
PS07	St. George SPS	125	2	2,990,000	46,000
PS11	Burwell Road SPS	59	2	1,794,000	27,600
PS12	Axford Parkway SPS	56.6	2	1,794,000	27,600
PS14	Shaw Valley SPS	66.2	2	1,794,000	27,600
PS17	Elm Street SPS (Not Assumed)	44	2	1,794,000	27,600
				18,777,200	288,880

Appendix D: Lifecycle Analysis – Sanitary and Stormwater Shared Assets

LIFECYCLE ANALYSIS - COMBINED SEWER PIPE NETWORK										
ASSET ID	ON STREET	FROM STREET	TO STREET	DIAMETER	MATERIAL	LENGTH	STORM REPLACMENT ESTIMATE (2022\$)	SANITARY REPLACEMENT ESTIMATE (2022\$)	SANITARY ANNUAL LIFECYCLE CONTRIBUTION	STORM ANNUAL LIFECYCLE CONTRIBUTION
CSL1006	PLEASANT STREET	TALBOT STREET	CENTRE STREET	300	VC	97.5	60,096	97,369	1,298	801
CSL1719	CORA STREET	ST. GEORGE STREET	BURROWS AVENUE	250	VC	94.5	58,247	88,722	1,183	777
CSL627	FOREST AVENUE	ROSS STREET	SMITH AVENUE	375	VC	99.7	63,837	102,547	1,367	851
CSL952	DEVONSHIRE PLACE	REGENT STREET	BALFOUR STREET	200	VC	143.3	88,325	117,400	1,565	1,178
CSL1961	INKERMAN STREET	TALBOT STREET	WELDON AVENUE	250	VC	124.6	76,799	116,982	1,560	1,024
CSL1648	CENTRE STREET	KING STREET	CHURCH STREET	225	VC	86.9	53,562	71,194	949	714
CSL1648	CENTRE STREET	PLEASANT STREET	KING STREET	225	VC	86.9	53,562	71,194	949	714
CSL1229	ALMA STREET	HAMMOND STREET	NORTH END	250	VC	90.8	55,966	85,248	1,137	746
CSL205	PARKSIDE DRIVE	ELM STREET	BELL AVENUE	250	VC	73.8	45,488	69,288	924	607
CSL1031	WALNUT STREET	KING STREET	CHURCH STREET	225	VC	86.8	53,501	71,112	948	713
CSL985	WILLIAM STREET	CENTRE STREET	ST. ANNE'S PLACE	200	VC	68.6	42,283	56,201	749	564
CSL1029	WALNUT STREET	CHURCH STREET	STANLEY STREET	225	VC	88.4	54,487	72,423	966	726
CSL1004	CENTRE STREET	STANLEY STREET	WILLIAM STREET	225	VC	82.3	50,727	67,425	899	676
CSL269	FOREST AVENUE	SMITH AVENUE	FIFTH AVENUE	375	VC	105.2	67,358	108,205	1,443	898
CSL970	ELGIN STREET	CENTRE STREET	ST. ANNE'S PLACE	900	Brick	115.5	192,061	177,507	2,367	2,561
CSL1391	ALMA STREET	MALAKOFF STREET	TALBOT STREET	250	VC	73.2	45,118	68,725	916	602
CSL243	FOREST AVENUE	THIRD AVENUE	SECOND AVENUE	250	VC	189	116,493	177,445	2,366	1,553
CSL1230	ALMA STREET	HAMMOND STREET	NORTH END	250	VC	85.6	52,761	80,366	1,072	703
CSL951	REGENT STREET	DEVONSHIRE PLACE	WEST AVENUE	200	VC	73	44,995	59,806	797	600
CSL1032	WALNUT STREET	KING STREET	CHURCH STREET	225	VC	59.4	36,612	48,664	649	488
CSL659	SIMCOE STREET	CHURCHILL CRESCENT	FIRST AVENUE	200	VC	63.9	39,386	52,351	698	525
CSL202	BELL AVENUE	PARKSIDE DRIVE	EAST END	200	VC	109.1	67,246	89,381	1,192	897
CSL1030	WALNUT STREET	CHURCH STREET	STANLEY STREET	225	VC	77.7	47,892	63,657	849	639
CSL203	PARKSIDE DRIVE	ELM STREET	BELL AVENUE	250	VC	75.6	46,597	70,978	946	621
CSL1033	WALNUT STREET	PLEASANT STREET	KING STREET	225	VC	118.9	73,286	97,410	1,299	977
CSL941	ISABEL STREET	DRAKE STREET	VICTORIA STREET	250	VC	128	78,895	120,174	1,602	1,052
CSL687	DUNKIRK DRIVE	DIEPPE DRIVE	CHURCHILL CRESCENT	200	VC	94.5	58,247	77,420	1,032	777
CSL252	FOREST AVENUE	FIFTH AVENUE	FOURTH AVENUE	375	VC	184.4	118,069	189,666	2,529	1,574
CSL1829	WOODWORTH AVENUE	EDWARD STREET	DANIEL STREET	200	VC	108.2	66,691	88,644	1,182	889
CSL1028	CENTRE STREET	KING STREET	CHURCH STREET	225	VC	96	59,171	78,649	1,049	789
CSL1026	CENTRE STREET	CHURCH STREET	STANLEY STREET	225	VC	105.2	64,842	86,186	1,149	865
CSL760	FOREST AVENUE	FOURTH AVENUE	THIRD AVENUE	250	VC	94.5	58,247	88,722	1,183	777
CSL1027	CENTRE STREET	KING STREET	CHURCH STREET	225	VC	123.4	76,060	101,097	1,348	1,014
CSL1002	CENTRE STREET	METCALFE STREET	ELGIN STREET	200	VC	88.4	54,487	72,423	966	726
CSL989	ST. ANNE'S PLACE	STANLEY STREET	WILLIAM STREET	200	VC	97.5	60,096	79,878	1,065	801
CSL1867	CHURCH STREET	TALBOT ROAD	CENTRE STREET	200	VC	50.9	31,373	41,700	556	418
CSL1433	ST. GEORGE STREET	CURTIS STREET	SCOTT STREET	300	VC	88.1	54,302	87,982	1,173	724
CSL1007	PLEASANT STREET	CENTRE STREET	WALNUT STREET	300	VC	59.4	36,612	59,320	791	488
CSL668	CHURCHILL CRESCENT	MONTGOMERY ROAD	COYNE STREET	250	VC	57.3	35,318	53,797	717	471
CSL759	FOREST AVENUE	FOURTH AVENUE	THIRD AVENUE	250	VC	95.1	58,617	89,286	1,190	782
CSL1958	FOREST AVENUE	THIRD AVENUE	SECOND AVENUE	250	VC	92.4	56,952	86,751	1,157	759
CSL628	FOREST AVENUE	ROSS STREET	SMITH AVENUE	375	VC	150.9	96,619	155,210	2,069	1,288
CSL204	NULL	NULL	NULL	250	VC	75.9	46,782	71,259	950	624
CSL1429	NULL	NULL	NULL	900	VC	46	76,492	70,696	943	1,020
CSL1940	NULL	NULL	NULL	375	VC	18.4	11,781	18,926	252	157
TOTALS						4224.7	2,786,338	3,899,384	51,992	37,151

LIFECYCLE ANALYSIS - FLEET								
Description	Asset Suffix	Anticipated Lifecycle	Recent Cost Estimate	Year of Cost Estimate	% Allocation to Sewer	Annual Lifecycle Contribution Total	Annual Lifecycle Contribution Storm	Annual Lifecycle Contribution Sanitary
pickup	154	8	\$50,000	2022	50%	\$3,125	\$1,563	\$1,563
pickup	220	8	\$50,000	2022	50%	\$3,125	\$1,563	\$1,563
pickup	248	8	\$50,000	2022	50%	\$3,125	\$1,563	\$1,563
(2022 replacement likely van)	264	8	\$95,000	2022	100%	\$11,875	\$5,938	\$5,938
pickup	267	8	\$45,000	2022	100%	\$5,625	\$2,813	\$2,813
service body with crane	241	8	\$90,000	2022	50%	\$5,625	\$2,813	\$2,813
dump with crane	222	12	\$200,000	2022	50%	\$8,333	\$4,167	\$4,167
crew cab with service body	236	12	\$150,000	2022	100%	\$12,500	\$6,250	\$6,250
sewer jet	240	12	\$700,000	2022	100%	\$58,333	\$29,167	\$29,167
sewer jet	250	12	\$700,000	2022	100%	\$58,333	\$29,167	\$29,167
dump with custom body	316	12	\$200,000	2022	100%	\$16,667	\$8,333	\$8,333
compressor	211	15	\$30,000	2022	50%	\$1,000	\$500	\$500
backhoe	224	4	\$120,000	2022	50%	\$15,000	\$7,500	\$7,500
loader	253	12	\$200,000	2022	33%	\$5,550	\$2,775	\$2,775
skid steer	273	10	\$80,000	2022	100%	\$8,000	\$4,000	\$4,000
forklift	276	20	\$100,000	2022	33%	\$1,665	\$833	\$833
fuel site - dispensers	B059-PW	15	\$50,000	2022	33%	\$1,110	\$555	\$555
fuel site - tank	B059-PW	30	\$50,000	2022	33%	\$555	\$278	\$278
Subtotal Fleet Replacement			2,960,000			\$219,547	\$109,773	\$109,773

Appendix E: Lifecycle Analysis – Stormwater System

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1970	LAWRENCE AVENUE	MAJESTIC COURT	HARVEST COURT	525	CO	55.1	50,437	672
STP1469	NULL	NULL	NULL	300	PVC	32.89	20,272	270
STP2629	JONAS STREET	LYDIA STREET	VERNA STREET	375	PVC	103.3	66,142	882
STP1831	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	450	PVC	4.3	3,036	40
STP1673	ARTHUR AVENUE	TALBOT STREET	MALAKOFF STREET	300	VC	43.39	26,744	357
STP554	TALBOT STREET	HIAWATHA STREET	WHITE STREET	900	CO	49.99	83,127	1,108
STP1000	SCHREYER DRIVE	AXFORD PARKWAY	SAUVE AVENUE	300	PVC	118.7	73,163	976
STP1608	HAGERMAN CRESCENT	EAST BEND	SOUTHGATE PARKWAY	300	PVC	98.9	60,959	813
STP1022	BURWELL ROAD	COTTONWOOD DRIVE	RIVERBANK DRIVE	1200	CO	92.9	193,368	2,578
STP1238	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	600	CO	26.73	25,267	337
STP448	WELLINGTON STREET	SECOND AVENUE	FIRST AVENUE	300	CO	15	9,246	123
STP1489	THIRD AVENUE	WELLINGTON STREET	NORTH END	825	CO	10	14,237	190
STP118	ELM STREET	PARK AVENUE	YOUNG STREET	1500	CO	136.25	342,671	4,569
STP118	ELM STREET	YOUNG STREET	RHONDA COURT	1500	CO	136.25	342,671	4,569
STP609	YARWOOD STREET	KAINS STREET	MARIAM STREET	525	CO	73	66,822	891
STP1013	SAUVE AVENUE	SCHREYER DRIVE	AXFORD PARKWAY	600	PVC	98.29	92,910	1,239
STP2000	CONFEDERATION DRIVE	NORTHWOOD PLACE	WARREN CRESCENT	525	CO	18.288	16,740	223
STP1567	GREENWAY BOULEVARD	BURWELL ROAD	HAVENRIDGE COURT	300	CO	60.7	37,413	499
STP2297	QUEEN STREET	ST. ANNE'S PLACE	WELLINGTON STREET	375	PVC	121	77,475	1,033
STP113	APPLEWOOD CRESCENT	CHANT STREET	CHANT STREET	450	CO	92.35	65,205	869
STP16	MASSEY DRIVE	ALDBOROUGH AVENUE	MICHENER COURT	450	CO	57.91	40,888	545
STP2309	FIRST AVENUE	TALBOT STREET	STEELE STREET	900	CO	6.7	11,141	149
STP1194	TALBOT STREET	BURWELL ROAD	YARMOUTH ROAD	575	CO	141.12	133,396	1,779
STP1205	AXFORD PARKWAY	FAIRVIEW AVENUE	MCGIBBON AVENUE	375	PVC	95.9	61,404	819
STP1032	COTTONWOOD DRIVE	MAGNOLIA COURT	AMBERWOOD COURT	750	CO	42.4	54,659	729
STP712	ELGIN STREET	DENISON AVENUE	REGENT STREET	575	VC	23.3	22,025	294
STP1711	DALEWOOD DRIVE	WOODWORTH CRESCENT	WATERTOWER LINE	600	CO	26.7	25,239	337
STP2159	WELLINGTON STREET	SOUTHWICK STREET	PRINCESS AVENUE	525	CO	70	64,076	854
STP2159	WELLINGTON STREET	SOUTHWICK STREET	PRINCESS AVENUE	525	CO	70	64,076	854
STP1896	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	300	CO	50.292	30,998	413
STP2499	PEAR TREE AVENUE	ASHBERRY PLACE	AMBROSIA PATH	900	PVC	49.6	82,478	1,100
STP2290	ALEXANDRIA AVENUE	REDAN STREET	MALAKOFF STREET	450	PVC	60	42,364	565
STP2427	MILLSTONE AVENUE	SOUTHDALE LINE	BENJAMIN PARKWAY	1200	CO	22	45,792	611
STP30	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	525	CO	87.17	79,793	1,064
STP268	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	450	CO	14.02	9,899	132
STP1081	JOYCE STREET	MCLACHLIN PLACE	BRINKMAN COURT	450	VC	30.48	21,521	287
STP598	MANITOBA STREET	CELESTINE STREET	KAINS STREET	600	CO	96.8	91,502	1,220
STP1018	BURWELL ROAD	RON MCNEIL LINE	BROOKSIDE DRIVE	525	CO	31.3	28,651	382
STP2571	HUGHES STREET	KAINS STREET	MARIAM STREET	200	CO	89.5	55,165	736
STP2302	GLADSTONE AVENUE	SOUTHWICK STREET	PRINCESS AVENUE	450	PVC	100	70,607	941
STP936	HIGHVIEW DRIVE	FANJOY DRIVE	HIGHVIEW DRIVE	300	PVC	39.5	24,347	325
STP342	WELLINGTON STREET	STOKES ROAD	RICE ROAD	1200	CO	88.09	183,356	2,445
STP2217	PEACH TREE BOULEVARD	EMPIRE PARKWAY	CAROLINA CRESCENT	600	CO	110	103,979	1,386
STP1419	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDALE LINE	300	PVC	38	23,422	312
STP1661	SANDPIPER PLACE	MOURNING DOVE LANE	WEST END	450	CO	69.8	49,283	657
STP1702	WAREHOUSE STREET	PARK AVENUE	FAIRVIEW AVENUE	525	CO	61.8	56,570	754

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2285	CASO CROSSING	WELLINGTON STREET	TALBOT STREET	450	CO	78.2	55,214	736
STP856	ELM STREET	CHANT STREET	MANOR ROAD	1200	CO	25	52,037	694
STP905	HIGHVIEW DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	1050	CO	66.45	130,366	1,738
STP905	VANBUSKIRK DRIVE	GUSTIN PLACE	HIGHVIEW DRIVE	1050	CO	66.45	130,366	1,738
STP1054	EDWARD STREET	WOODWORTH AVENUE	FIRST AVENUE	300	CO	40.79	25,142	335
STP181	PARK AVENUE	CHESTNUT STREET	MARY BUCKE STREET	950	VC	75.59	148,298	1,977
STP643	LOCKE AVENUE	SOUTH EDGEWARE ROAD	ROSEMOUNT CRESCENT	450	CO	103.33	72,958	973
STP1120	HINCKS STREET	GLADSTONE AVENUE	ROSEBERY PLACE	375	VC	99.52	63,721	850
STP1221	ERINLEA DRIVE	CHESTNUT STREET	IDSARDI AVENUE	375	CO	82.6	52,888	705
STP2563	MYRTLE STREET	FIFTH AVENUE	FOURTH AVENUE	750	CO	103.1	132,908	1,772
STP261	STOKES ROAD	BONNIE PLACE	BONNIE PLACE	1500	CO	53.8	135,308	1,804
STP922	VANBUSKIRK DRIVE	MCCULLY DRIVE	PAULSON COURT	525	CO	87.17	79,793	1,064
STP1263	DEVONSHIRE PLACE	BALFOUR STREET	CHESTER STREET	375	VC	85.5	54,745	730
STP1722	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	600	CO	55.8	52,746	703
STP727	MCINTYRE STREET	MOORE STREET	ROSS STREET	300	VC	142	87,524	1,167
STP2010	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	600	CO	43	40,646	542
STP387	PALMER COURT	HIGHVIEW DRIVE	END	375	CO	15.2	9,732	130
STP240	CHURCHILL CRESCENT	MEEHAN STREET	DUNKIRK DRIVE	975	CO	157.58	290,304	3,871
STP692	ELIZABETH STREET	SOUTHWICK STREET	WHITE STREET	525	VC	164.8	150,853	2,011
STP754	SMITH AVENUE	ERIE STREET	FOREST AVENUE	450	VC	109.98	77,653	1,035
STP106	LAWRENCE AVENUE	BUTLER DRIVE	CHANT STREET	825	CO	68.73	97,849	1,305
STP1925	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	250	CO	45.11	27,804	371
STP23	FAIRVIEW AVENUE	CALDWELL STREET	AIREY AVENUE	900	CO	91.44	152,053	2,027
STP915	MANOR ROAD	HIGHVIEW DRIVE	ELM STREET	300	CO	45.11	27,804	371
STP2626	BARNES STREET	LYDIA STREET	VERNA STREET	450	PVC	101.4	71,595	955
STP1643	HUMMINGBIRD LANE	OSPREY LANE	WARBLER HEIGHTS	375	PVC	34.6	22,154	295
STP1195	TALBOT STREET	PARK AVENUE	BURWELL ROAD	900	CO	455.58	757,569	10,101
STP1456	KOPIC COURT	PARK AVENUE	WEST END	300	PVC	16.1	9,924	132
STP2269	MARTINGALE TERRACE	PEACH TREE BOULEVARD	END	600	CO	91.7	86,681	1,156
STP2558	ROSS STREET	BARNES STREET	WELLINGTON STREET	825	CO	66.8	95,101	1,268
STP769	BURWELL ROAD	BENNETT PLACE	SOUTH EDGEWARE ROAD	825	CO	57.61	82,017	1,094
STP2376	DORAL COURT	OAKMONT STREET	ST. ANDREWS DRIVE	450	CO	88.8	62,699	836
STP1513	MARY BUCKE STREET	TREVITHICK TERRACE	PARK AVENUE	375	PVC	96.1	61,532	820
STP38	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	600	CO	73.15	69,146	922
STP539	EAST STREET	CURTIS STREET	SCOTT STREET	675	VC	82.6	86,723	1,156
STP741	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	575	VC	218.02	206,087	2,748
STP48	AIREY AVENUE	ALDBOROUGH AVENUE	DUNWICH DRIVE	600	CO	86.87	82,115	1,095
STP1852	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	1050	CO	100	196,187	2,616
STP2641	CENTRE STREET	SOUTHWICK STREET	WHITE STREET	375	PVC	83.2	53,272	710
STP1982	PEACH TREE BOULEVARD	MITCHELL HEPBURN PUBLIC SCHOOL	RAVEN AVENUE	600	CO	59.1	55,865	745
STP1125	MITCHELL STREET	HINCKS STREET	SOUTHWICK STREET	375	VC	144.73	92,669	1,236
STP1141	TALBOT STREET	ROSS STREET	HORTON STREET	1200	CO	86.3	179,631	2,395
STP1592	PENHALE AVENUE	CHAMBERLAIN COURT	SOUTHDAL E LINE	575	PVC	41.337	39,075	521
STP285	HIGHVIEW DRIVE	CHESTNUT STREET	COOK CRESCENT	375	PVC	66.1	42,323	564
STP175	CHESTNUT STREET	TREVITHICK TERRACE	CAVANAUGH DRIVE	375	CO	44.3	28,365	378
STP1752	SECOND AVENUE	WELLINGTON STREET	ERIE STREET	300	CO	17.6	10,848	145
STP364	HIGHVIEW DRIVE	RIPLEY LANE	FARMINGTON DRIVE	1200	CO	75.6	157,359	2,098

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP339	WELLINGTON STREET	HIGHVIEW DRIVE	STOKES ROAD	1975	CO	273.1	1,225,787	16,344
STP343	WELLINGTON STREET	HIGHVIEW DRIVE	STOKES ROAD	1200	CO	13.72	28,558	381
STP2511	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	675	CO	78.8	82,733	1,103
STP1323	ALMA STREET	HIGHWAY #3 BYPASS	EDWARD STREET	750	CO	97.5	125,689	1,676
STP848	LOCUST STREET	FIRST AVENUE	GREGORY PLACE	375	CO	73.15	46,837	624
STP704	PRINCE ALBERT STREET	ISABEL STREET	METCALFE STREET	300	VC	93.22	57,458	766
STP148	NEAL AVENUE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	750	CO	115.1	148,377	1,978
STP2422	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	1200	CO	138.7	288,699	3,849
STP2328	STANLEY STREET	WELLINGTON STREET	GLADSTONE AVENUE	450	PVC	38	26,831	358
STP2432	MELROSE COURT	PEACH TREE BOULEVARD	END	675	CO	56.8	59,635	795
STP1963	HUMMINGBIRD LANE	MOURNING DOVE LANE	KINGFISHER COURT	750	CO	22.7	29,263	390
STP1586	FENWICK COURT	PENHALE AVENUE	EAST END	300	PVC	49.8	30,695	409
STP1379	NOLAN STREET	ALMA STREET	BALACLAVA STREET	600	CO	66	62,388	832
STP1680	PEACH TREE BOULEVARD	ELM STREET	CHERRY BLOSSUM LANE	375	PVC	34.2	21,898	292
STP1217	LOCUST STREET	ROSS STREET	FIFTH AVENUE	300	VC	81.38	50,160	669
STP2417	BENJAMIN PARKWAY	SOUTHDAL E LINE	MILLSTONE AVENUE	1650	CO	11.2	37,545	501
STP1455	ORIOLE LANE	HICKORY LANE	CUL-DE-SAC	450	PVC	59.6	42,082	561
STP883	TAYLOR CRESCENT	ELM STREET	WEST END	600	CO	53.34	50,421	672
STP182	PARK AVENUE	CHESTNUT STREET	MARY BUCKE STREET	1125	VC	83.92	174,677	2,329
STP1073	HUGHES STREET	MONTCALM STREET	TECUMSEH STREET	150	VC	71.32	43,959	586
STP145	ERINLEA DRIVE	CRESTWOOD COURT	MANOR ROAD	600	CO	38.25	36,156	482
STP155	FANJOY DRIVE	OLDEWOOD CRESCENT	OLDEWOOD CRESCENT	975	CO	21	38,688	516
STP2404	EDWARD STREET	BURWELL ROAD	GAYLORD ROAD	450	PVC	65	45,894	612
STP753	ELMINA STREET	OAK STREET	HEMLOCK STREET	575	VC	65.01	61,452	819
STP1978	MAJESTIC COURT	LAWRENCE AVENUE	END	375	PVC	40.2	25,740	343
STP135	POL COURT	HIGHVIEW DRIVE	PADDON STREET	375	CO	36.27	23,223	310
STP135	POL COURT	HIGHVIEW DRIVE	PADDON STREET	375	CO	36.27	23,223	310
STP899	CROATIA COURT	HIGHVIEW DRIVE	EAST END	450	CO	45.72	32,281	430
STP2384	EASEMENT	22 DORAL COURT	DORAL COURT	450	CO	28.8	20,335	271
STP1299	ROSS STREET	MCINTYRE STREET	FOREST AVENUE	375	VC	59.6	38,161	509
STP613	CONFEDERATION DRIVE	LOCKE AVENUE	NORTHWOOD PLACE	525	CO	50.6	46,318	618
STP1481	EDWARD STREET	ALMA STREET	BALACLAVA STREET	375	CO	33.22	21,270	284
STP1209	HIGHVIEW DRIVE	NEAL AVENUE	FANJOY DRIVE	675	CO	50.5	53,021	707
STP1654	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	900	CO	58.3	96,945	1,293
STP1031	RIVERBANK DRIVE	BURWELL ROAD	GOLDENROD COURT	900	CO	64.3	106,922	1,426
STP1700	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	825	CO	20	28,473	380
STP2030	MANITOBA STREET	BARWICK STREET	NORTH END	450	CO	69.4	49,001	653
STP2529	AUBURN DRIVE	RENAISSANCE DRIVE	OXFORD TERRACE	300	PVC	67.1	41,358	551
STP2544	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	1200	CO	93.9	195,450	2,606
STP189	CAVANAUGH DRIVE	TREVITHICK TERRACE	CHESTNUT STREET	750	CO	93.8	120,919	1,612
STP1773	FIRST AVENUE	HIGHWAY #3 BYPASS	EDWARD STREET	1200	CO	6.1	12,697	169
STP46	ALDBOROUGH AVENUE	GLANWORTH AVENUE	AIREY AVENUE	1350	CO	31.5	73,572	981
STP2097	OLD COURSE ROAD	VALDERRAMA LANE	ROYAL DORNOCH DRIVE	1200	CO	84.7	176,300	2,351
STP1368	MONDAMIN STREET	CURTIS STREET	SCOTT STREET	450	CO	5.79	4,088	55
STP2305	GLADSTONE AVENUE	HINCKS STREET	SOUTHWICK STREET	525	CO	7.1	6,499	87
STP1997	FIRST AVENUE	MANDEVILLE ROAD	THOMPSON AVENUE	300	CO	15.688	9,670	129
STP1997	FIRST AVENUE	MANDEVILLE ROAD	THOMPSON AVENUE	300	CO	15.688	9,670	129
STP815	INKERMAN STREET	TRAFALGAR STREET	REDAN STREET	575	VC	177.77	168,040	2,241

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP815	INKERMAN STREET	MALAKOFF STREET	TRAFALGAR STREET	575	VC	177.77	168,040	2,241
STP321	DAUGHARTY DRIVE	LAURA AVENUE	CHESTNUT STREET	450	CO	71.32	50,357	671
STP1671	HUMMINGBIRD LANE	MOURNING DOVE LANE	LAKE MARGARET TRAIL	750	CO	58.3	75,156	1,002
STP1359	JOYCE STREET	MCLACHLIN PLACE	BRINKMAN COURT	450	VC	82.3	58,109	775
STP487	ERIE STREET	TALEQUAH STREET	PARK AVENUE	450	CO	90.53	63,920	852
STP2358	CAROLINA CRESCENT	PEACH TREE BOULEVARD	ARBOR TRAIL	450	CO	36.2	25,560	341
STP1681	CHERRY BLOSSUM LANE	PEACH TREE BOULEVARD	WEST END	1200	CO	62.7	130,508	1,740
STP2158	WELLINGTON STREET	SOUTHWICK STREET	PRINCESS AVENUE	600	CO	70	66,169	882
STP1202	SCHREYER DRIVE	AXFORD PARKWAY	SAUVE AVENUE	600	PVC	88.9	84,034	1,120
STP1500	THIRD AVENUE	WELLINGTON STREET	NORTH END	900	PVC	112	186,241	2,483
STP178	PARK AVENUE	KOPIC COURT	ELM STREET	525	VC	86.41	79,097	1,055
STP201	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	825	CO	90.83	129,312	1,724
STP1429	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	300	CO	92.5	57,014	760
STP677	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	900	CO	72	119,726	1,596
STP2631	LYDIA STREET	JONAS STREET	BARNES STREET	300	PVC	49.9	30,757	410
STP2329	STANLEY STREET	WELLINGTON STREET	GLADSTONE AVENUE	450	CO	13	9,179	122
STP1434	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	375	CO	47.2	30,222	403
STP806	SPACKMAN BOULEVARD	SPARLING ROAD	LAING BOULEVARD	575	VC	90	85,074	1,134
STP402	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	375	PVC	38.2	24,459	326
STP1462	ROSS STREET	MABEL STREET	NAAMA STREET	750	CO	98.59	127,094	1,695
STP1462	ROSS STREET	MAPLE STREET	MABEL STREET	750	CO	98.59	127,094	1,695
STP414	SIFTON DRIVE	HIGHVIEW DRIVE	LYFORD COURT	825	CO	46.8	66,628	888
STP1307	BALACLAVA STREET	HAMMOND STREET	SOUTH EDGEWARE ROAD	675	CO	71	74,544	994
STP1563	GLENVIEW COURT	BURWELL ROAD	END	300	PVC	28.7	17,690	236
STP787	INKERMAN STREET	EDWARD STREET	HIGHWAY #3 BYPASS	525	VC	16.15	14,783	197
STP762	BALACLAVA STREET	HAMMOND STREET	SOUTH EDGEWARE ROAD	825	CO	23.5	33,456	446
STP133	POL COURT	HIGHVIEW DRIVE	PADDON STREET	525	CO	84.89	77,706	1,036
STP986	LAKE MARGARET TRAIL	AXFORD PARKWAY	BLUE HERON PLACE	750	CO	72.8	93,848	1,251
STP510	WILSON AVENUE	ADA STREET	ELM STREET	600	CO	57.4	54,258	723
STP1425	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	AUGUSTA CRESCENT	675	CO	44.1	46,301	617
STP2577	ELM STREET	WILSON AVENUE	PARKSIDE DRIVE	375	PVC	71.5	45,781	610
STP2295	SUNSET DRIVE	WELLINGTON ROAD	MAJOR LINE	450	PVC	22	15,533	207
STP1312	INKERMAN STREET	PATRICIA STREET	JOHNSON PLACE	750	CO	8.53	10,996	147
STP2334	STANLEY STREET	VICTORIA STREET	FARLEY PLACE	600	CO	50.4	47,641	635
STP2576	HUGHES STREET	BALDWIN STREET	BARWICK STREET	600	CO	109.6	103,601	1,381
STP1942	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	300	PVC	35.4	21,819	291
STP499	HIGH STREET	CHESTNUT STREET	PHILIP STREET	675	CO	60.96	64,003	853
STP76	ALDBOROUGH AVENUE	PARISH STREET	SPARTA STREET	300	CO	41.09	25,327	338
STP1507	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	525	CO	92	84,214	1,123
STP1638	OSPREY LANE	HUMMINGBIRD LANE	CUL-DE-SAC	375	PVC	12	7,683	102
STP2296	SUNSET DRIVE	WELLINGTON ROAD	MAJOR LINE	600	CO	70	66,169	882
STP879	TAYLOR CRESCENT	ELM STREET	WEST END	300	CO	14.94	9,209	123
STP967	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	375	PVC	77.4	49,558	661
STP1991	NOBLE LANE	RAVEN AVENUE	SOUTH END	900	CO	97.3	161,797	2,157
STP1536	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	1200	CO	102.1	212,518	2,834
STP1508	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	450	CO	86.1	60,792	811
STP213	COSTELLO COURT	ST. JOSEPH STREET	SOUTH END	300	PVC	46	28,353	378
STP538	EAST STREET	TALBOT STREET	CURTIS STREET	525	VC	80.47	73,660	982

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1604	REDTAIL COURT	BAILEY AVENUE	EAST END	525	CO	102	93,367	1,245
STP2500	PEAR TREE AVENUE	ASHBERRY PLACE	AMBROSIA PATH	900	CO	36.5	60,695	809
STP634	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	750	CO	82.3	106,094	1,415
STP296	MANOR ROAD	WEST END	RICE ROAD	900	CO	32.92	54,742	730
STP772	BURWELL ROAD	SANDERS COURT	SILVER STREET	1500	CO	114.6	288,221	3,843
STP886	ELM STREET	FIRST AVENUE	HOLLAND AVENUE	300	VC	9.14	5,634	75
STP1564	GLENVIEW COURT	BURWELL ROAD	END	300	PVC	98	60,404	805
STP265	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	1500	CO	47.91	120,494	1,607
STP627	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	525	CO	65.23	59,709	796
STP2575	HUGHES STREET	MARIAM STREET	BALDWIN STREET	375	PVC	103	65,950	879
STP160	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	375	PVC	47.9	30,670	409
STP1600	BAILEY AVENUE	CHESTNUT STREET	REDTAIL COURT	525	CO	65.6	60,048	801
STP608	YARWOOD STREET	KAINS STREET	MARIAM STREET	600	CO	82.3	77,795	1,037
STP668	BURWELL ROAD	DONKER DRIVE	DENNIS ROAD	525	CO	70.8	64,808	864
STP140	HIGHVIEW DRIVE	VANBUSKIRK DRIVE	PADDON STREET	300	VC	42.67	26,300	351
STP2519	RENAISSANCE DRIVE	OXFORD TERRACE	AUBURN DRIVE	975	CO	88.4	162,856	2,171
STP2	LEGER AVENUE	ALDBOROUGH AVENUE	VANIER PLACE	1375	CO	85.34	214,632	2,862
STP2050	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	300	PVC	114.6	70,636	942
STP27	CALDWELL STREET	MCLARTY DRIVE	LAWRENCE AVENUE	300	CO	83.21	51,288	684
STP629	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	525	CO	32.92	30,134	402
STP1467	MAPLE STREET	FIFTH AVENUE	FOURTH AVENUE	250	PVC	30.21	18,620	248
STP322	DAUGHARTY DRIVE	FOREST AVENUE	LAURA AVENUE	450	CO	88.7	62,628	835
STP1566	GREENWAY BOULEVARD	HAVENRIDGE COURT	HAWTHORN COURT	675	CO	84	88,193	1,176
STP209	SIMCOE STREET	CHURCHILL CRESCENT	FIRST AVENUE	300	VC	24.84	15,311	204
STP652	WRIGHT CRESCENT	THORMAN TERRACE	DONKER DRIVE	675	CO	56.5	59,320	791
STP1549	BROOKSIDE DRIVE	BURWELL ROAD	MEADOWVALE DRIVE	825	CO	45.2	64,350	858
STP954	MARY BUCKE STREET	TREVITHICK TERRACE	PARK AVENUE	900	CO	98.45	163,709	2,183
STP1341	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	300	VC	20	12,327	164
STP1183	FIRST AVENUE	STEELE STREET	MARY STREET EAST	600	VC	155.91	147,377	1,965
STP501	SMITH AVENUE	WELLINGTON STREET	ERIE STREET	450	VC	89	62,840	838
STP1167	FIFTH AVENUE	ERIE STREET	FOREST AVENUE	375	VC	115.77	74,126	988
STP1644	THORMAN TERRACE	WRIGHT CRESCENT	BURWELL ROAD	675	CO	45.5	47,771	637
STP533	ELYSIAN STREET	ST. GEORGE STREET	WEST PEARL STREET	450	VC	25.95	18,322	244
STP663	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	300	PVC	74.6	45,981	613
STP1977	LAWRENCE AVENUE	BUTLER DRIVE	MAJESTIC COURT	375	PVC	96.3	61,660	822
STP1325	ALMA STREET	NOLAN STREET	EDWARD STREET	450	CO	16	11,297	151
STP239	DUNKIRK DRIVE	CHURCHILL CRESCENT	MEEHAN STREET	975	CO	68.73	126,619	1,688
STP1924	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	250	CO	44.501	27,429	366
STP2487	ROYAL DORNOCH DRIVE	OLD COURSE ROAD	VALDERRAMA LANE	825	CO	84.7	120,585	1,608
STP874	TAYLOR CRESCENT	ELM STREET	WEST END	250	CO	38.1	23,484	313
STP317	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	600	VC	23	21,741	290
STP1532	BILL MARTYN PARKWAY	SAUVE AVENUE	SOUTHDALE LINE	525	CO	64.7	59,224	790
STP350	RICE ROAD	HITCH CRESCENT	MANOR ROAD	300	PVC	63.6	39,201	523
STP867	FAIRVIEW AVENUE	ELM STREET	ALDBOROUGH AVENUE	525	CO	92.5	84,671	1,129
STP476	LOCUST STREET	FIFTH AVENUE	FOURTH AVENUE	300	VC	6.17	3,803	51
STP950	WELLINGTON STREET	HIGHVIEW DRIVE	ROSETHORN COURT	450	PVC	99	69,901	932
STP597	HORTON STREET	TALBOT STREET	CELESTINE STREET	675	CO	104.3	109,506	1,460
STP542	ELGIN STREET	TALBOT STREET	CENTRE STREET	525	CO	41.1	37,622	502

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1884	MANOR ROAD	WEST END	RICE ROAD	300	PVC	38.007	23,426	312
STP2193	DEERFIELD COURT	PINE VALLEY DRIVE	END	525	CO	57.3	52,451	699
STP42	PORTER PLACE	RAVEN AVENUE	NORTH END	450	CO	51.51	36,370	485
STP1704	PARK AVENUE	WELLINGTON STREET	ERIE STREET	600	CO	102.5	96,890	1,292
STP2184	TANAGER PLACE	HICKORY LANE	END	300	PVC	12.7	7,828	104
STP477	ERIE STREET	FOURTH AVENUE	THIRD AVENUE	1350	CO	87.8	205,067	2,734
STP170	CAVANAUGH DRIVE	TREVITHICK TERRACE	CHESTNUT STREET	750	CO	97.3	125,431	1,672
STP782	INKERMAN STREET	REDAN STREET	NOLAN STREET	575	VC	48.67	46,006	613
STP1188	TALBOT STREET	FIRST AVENUE	PARK AVENUE	575	VC	162.24	153,360	2,045
STP1418	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDALE LINE	750	CO	96.2	124,013	1,654
STP2055	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	825	CO	60.1	85,562	1,141
STP409	HIGHVIEW DRIVE	RICKWOOD PLACE	RIPLEY LANE	375	PVC	20.68	13,241	177
STP1285	HIAWATHA STREET	MEDA STREET	OMEMEE STREET	300	VC	31.5	19,416	259
STP2278	MANOR ROAD	HIGHVIEW DRIVE	WELLINGTON STREET	300	PVC	66.1	40,742	543
STP1867	OLIVER STREET	CRUISE STREET	LEILA STREET	450	PVC	104.43	73,735	983
STP2332	STANLEY STREET	VICTORIA STREET	FARLEY PLACE	600	CO	57.4	54,258	723
STP1058	WOODWORTH AVENUE	EDWARD STREET	DANIEL STREET	600	VC	90.22	85,282	1,137
STP2316	HUGHES STREET	BARWICK STREET	WOLFE STREET	675	CO	100.4	105,412	1,405
2602	RAPELJE STREET	ELM STREET	MANDEVILLE ROAD	450	PVC	19.4	13,698	183
STP8	RAVEN AVENUE	DAVID DRIVE	DYER STREET	1050	CO	56.69	111,218	1,483
STP1985	RAVEN AVENUE	PENHALE AVENUE	NOBLE LANE	300	PVC	81.5	50,234	670
STP2315	HUGHES STREET	BALDWIN STREET	BARWICK STREET	300	PVC	5.2	3,205	43
STP2315	HUGHES STREET	BALDWIN STREET	BARWICK STREET	300	PVC	5.2	3,205	43
STP91	PULLEN AVENUE	FRANCES STREET SOUTH	ALDBOROUGH AVENUE	375	VC	22.6	14,470	193
STP1060	REDAN STREET	ARTHUR AVENUE	ALEXANDRIA AVENUE	600	CO	112.78	106,607	1,421
STP925	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	375	PVC	36.7	23,499	313
STP1206	AXFORD PARKWAY	MCGIBBON AVENUE	SCHREYER DRIVE	450	PVC	89	62,840	838
STP1206	AXFORD PARKWAY	FAIRVIEW AVENUE	MCGIBBON AVENUE	450	PVC	89	62,840	838
STP1447	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	1500	CO	42.9	107,894	1,439
STP251	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	375	PVC	85.9	55,001	733
STP2003	WOODWORTH AVENUE	TRAFALGAR STREET	MALAKOFF STREET	250	PVC	65.5	40,372	538
STP2003	WOODWORTH AVENUE	TRAFALGAR STREET	MALAKOFF STREET	250	PVC	65.5	40,372	538
STP393	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	525	CO	29.8	27,278	364
STP994	MULBERRY LANE	BLUE HERON PLACE	END	300	PVC	22.4	13,807	184
STP474	ERIE STREET	THIRD AVENUE	SECOND AVENUE	1350	CO	94.4	220,482	2,940
STP1975	HARVEST COURT	LAWRENCE AVENUE	END	600	CO	92.1	87,059	1,161
STP356	HIGHVIEW DRIVE	FOREST AVENUE	WELLINGTON STREET	300	VC	47.2	29,093	388
STP680	MCGREGOR COURT	END	AVON ROAD	450	PVC	82	57,898	772
STP581	KAINS STREET	ST. CATHARINE STREET	STATION STREET	375	VC	65.53	41,958	559
STP2229	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	600	CO	28.1	26,562	354
STP695	JOHN STREET	KAINS STREET	TALBOT STREET	300	VC	132.28	81,533	1,087
STP1829	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	375	PVC	36.8	23,563	314
STP1407	ST. CATHARINE STREET	CURTIS STREET	SCOTT STREET	575	VC	13.91	13,149	175
STP2043	WELLINGTON STREET	PARK AVENUE	HUNTINGTON TERRACE	600	CO	14	13,234	176
STP1339	ELGIN STREET	TALBOT STREET	CENTRE STREET	575	CO	17.56	16,599	221
STP517	WILSON AVENUE	CHESTER STREET	ADA STREET	750	CO	90.1	116,149	1,549
STP1749	FIRST AVENUE	FOREST AVENUE	MYRTLE STREET	450	CO	107	75,549	1,007
STP1635	OSPREY LANE	HUMMINGBIRD LANE	LAKE MARGARET TRAIL	600	CO	92.1	87,059	1,161

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP585	KAINS STREET	JOHN STREET	FLORA STREET	1650	CO	72.44	242,835	3,238
STP2457	ST. GEORGE STREET	SCOTT STREET	ELYSIAN STREET	300	PVC	75.3	46,412	619
STP949	WELLINGTON STREET	HIGHVIEW DRIVE	ROSETHORN COURT	300	PVC	61.3	37,783	504
STP647	PINEHURST PLACE	LOCKE AVENUE	END	750	CO	43.22	55,716	743
STP197	CHESTNUT STREET	HIGHVIEW DRIVE	ERINLEA DRIVE	300	CO	21.34	13,153	175
STP1653	SOUTHGATE PARKWAY	PENHALE AVENUE	BLAIRMONT TERRACE	975	CO	18	33,161	442
STP1476	EASEMENT	BENNETT PLACE	BURWELL ROAD	375	CO	57.5	36,817	491
STP316	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	750	CO	60.96	78,585	1,048
STP444	WELLINGTON STREET	SECOND AVENUE	FIRST AVENUE	750	CO	51	65,745	877
STP1076	BROCK STREET	WEST END	HUGHES STREET	250	VC	109.18	67,295	897
STP1076	BROCK STREET	WEST END	HUGHES STREET	250	VC	109.18	67,295	897
STP1076	MONTCALM STREET	HUGHES STREET	WEST END	250	VC	109.18	67,295	897
STP1076	MONTCALM STREET	HUGHES STREET	WEST END	250	VC	109.18	67,295	897
STP1957	HUMMINGBIRD LANE	MOURNING DOVE LANE	KINGFISHER COURT	675	VC	90.3	94,808	1,264
STP1923	EASEMENT	FAIRVIEW AVENUE	PARISH STREET	300	CO	56	34,517	460
STP2589	ELM STREET	PINAFOR PARK ENTRANCE	ELMINA STREET	525	CO	49.9	45,677	609
STP60	PARISH STREET	ALDBOROUGH AVENUE	AIREY AVENUE	375	CO	98.94	63,350	845
STP553	TALBOT STREET	WHITE STREET	MONDAMIN STREET	900	CO	20.12	33,457	446
STP2557	ROSS STREET	AMELIA STREET	BARNES STREET	825	CO	60.5	86,132	1,148
STP964	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	450	PVC	76.7	54,155	722
STP865	LUTON CRESCENT	MCLARTY DRIVE	ELM STREET	900	CO	60.96	101,368	1,352
STP1945	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	375	CO	44.501	28,493	380
STP923	MCCULLY DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	375	VC	51.21	32,789	437
STP10	RAVEN AVENUE	DYER STREET	LAWRENCE AVENUE	1050	CO	84.73	166,229	2,216
STP2073	CHESTNUT STREET	FIFTH AVENUE	THIRD AVENUE	375	PVC	10.6	6,787	90
STP36	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	600	CO	79.25	74,912	999
STP532	EAST AVENUE	PALM STREET	CHESTER STREET	375	PVC	17.4	11,141	149
STP555	WHITE STREET	CENTRE STREET	TALBOT STREET	600	CO	21.95	20,749	277
STP2313	FIRST AVENUE	TALBOT STREET	STEELE STREET	1500	CO	76.7	192,902	2,572
STP1288	OWAISSA STREET	HIAWATHA STREET	WEST END	575	VC	44.02	41,611	555
STP556	PRINCESS AVENUE	CENTRE STREET	TALBOT STREET	450	CO	34.14	24,105	321
STP1669	HEDGES COURT	WELLINGTON STREET	END	525	CO	36	32,953	439
STP2045	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	525	CO	60	54,922	732
STP1778	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	900	CO	18.7	31,096	415
STP1611	COLEMAN COURT	BARRETT CRESCENT	END	375	PVC	61.9	39,634	528
STP961	MCGREGOR COURT	AVON ROAD	BURWELL ROAD	525	PVC	78	71,399	952
STP2064	ELM STREET	PEACH TREE BOULEVARD	ELMWOOD AVENUE	375	PVC	110	70,432	939
STP2130	BLAIRMONT TERRACE	SOUTHGATE PARKWAY	BEND	375	PVC	33.7	21,578	288
STP1090	WILLIAM STREET	CENTRE STREET	ST. ANNE'S PLACE	575	VC	17.2	16,259	217
STP1888	ASPEN AVENUE	FOREST AVENUE	CHESTNUT STREET	450	CO	50.36	35,558	474
STP20	VANIER PLACE	KER STREET	LEGER AVENUE	600	CO	91.44	86,435	1,152
STP1342	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	1050	CO	19	37,275	497
STP1983	RAVEN AVENUE	NOBLE LANE	PEACH TREE BOULEVARD	675	CO	63.2	66,355	885
STP130	PAULSON COURT	VANBUSKIRK DRIVE	WEST END	1200	CO	73.27	152,509	2,033
STP1834	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	600	CO	12	11,343	151
STP523	CHESTER STREET	EAST AVENUE	VICTOR DRIVE	825	CO	83.9	119,446	1,593
STP2284	CASO CROSSING	WELLINGTON STREET	TALBOT STREET	450	CO	29.1	20,547	274

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1857	ARROWWOOD LANE	PINE VALLEY DRIVE	ALDERWOOD COURT	1500	CO	79.5	199,944	2,666
STP1581	PENHALE AVENUE	SOUTHGATE PARKWAY	FENWICK COURT	975	CO	105.2	193,807	2,584
STP601	KAINS STREET	JOHN STREET	FLORA STREET	675	CO	4.99	5,239	70
STP2359	CAROLINA CRESCENT	PEACH TREE BOULEVARD	ARBOR TRAIL	450	CO	33.9	23,936	319
STP1525	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	1200	CO	82.2	171,097	2,281
STP622	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	450	CO	58.22	41,107	548
STP166	HIGH STREET	PHILIP STREET	ST. JOSEPH STREET	750	CO	78.03	100,590	1,341
STP77	ALDBOROUGH AVENUE	FAIRVIEW AVENUE	PARISH STREET	300	CO	24.99	15,403	205
STP2530	SOUTHDALE LINE	BENJAMIN PARKWAY	STYLES DRIVE	300	PVC	40	24,655	329
STP1685	LAWRENCE AVENUE	BUTLER DRIVE	MAJESTIC COURT	750	CO	48.5	62,522	834
STP284	HIGHVIEW DRIVE	CHESTNUT STREET	COOK CRESCENT	300	PVC	96.5	59,479	793
STP1632	LAKE MARGARET TRAIL	BEECHWOOD CIRCLE	HICKORY LANE	1050	CO	70.4	138,115	1,842
STP2649	ELM STREET	ELMWOOD AVENUE	BAILEY AVENUE	525	CO	61	55,837	744
STP1105	EAST STREET	SCOTT STREET	ELYSIAN STREET	300	VC	73.33	45,198	603
STP310	FOREST AVENUE	FAIRVIEW AVENUE	ASPEN AVENUE	675	CO	60.35	63,362	845
STP1893	FOREST AVENUE	SECOND AVENUE	FIRST AVENUE	250	CO	9.144	5,636	75
STP437	WELLINGTON STREET	FIFTH AVENUE	FOURTH AVENUE	1200	CO	98.2	204,400	2,725
STP2637	HINCKS STREET	TALBOT STREET	CENTRE STREET	375	PVC	8.7	5,570	74
STP1609	HAGERMAN CRESCENT	EAST BEND	SOUTHGATE PARKWAY	375	PVC	98	62,748	837
STP2272	ERIE STREET	ROSS STREET	SMITH AVENUE	600	CO	99.2	93,771	1,250
STP2126	SOUTHGATE PARKWAY	HAMPSTEAD COURT	PEACH TREE BOULEVARD	975	CO	73.7	135,775	1,810
STP711	ELGIN STREET	ROSEBERY PLACE	DENISON AVENUE	300	CO	57.8	35,626	475
STP607	YARWOOD STREET	KAINS STREET	MARIAM STREET	600	CO	79.1	74,771	997
STP1677	PEACH TREE BOULEVARD	ELM STREET	CHERRY BLOSSUM LANE	375	PVC	90.8	58,138	775
STP1385	WOODWORTH AVENUE	REDAN STREET	UKRANIAN STREET	450	CO	7.92	5,592	75
STP2068	CHESTNUT STREET	ROSS STREET	FIFTH AVENUE	525	CO	90.2	82,566	1,101
STP646	PINEHURST PLACE	LOCKE AVENUE	END	750	CO	30.78	39,679	529
STP1212	ROSS STREET	ERIE STREET	MCINTYRE STREET	825	CO	42.7	60,791	811
STP417	LYFORD COURT	SIFTON DRIVE	SOUTH END	450	CO	117	82,610	1,101
STP100	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	300	CO	91.65	56,490	753
STP747	ELMINA STREET	OAK STREET	HEMLOCK STREET	575	VC	88.58	83,732	1,116
STP1266	WEST AVENUE	CHESTER STREET	ADA STREET	375	VC	110.6	70,816	944
STP1838	FIRST AVENUE	EDWARD STREET	REDAN STREET	450	CO	44	31,067	414
STP1687	PEAR TREE AVENUE	PEACH TREE BOULEVARD	HONEY BEND	675	CO	114.9	120,635	1,608
STP1561	GLENVIEW COURT	BURWELL ROAD	END	450	CO	53.3	37,633	502
STP995	BLUE HERON PLACE	MULBERRY LANE	END	300	PVC	32	19,724	263
STP1409	CURTIS STREET	MONDAMIN STREET	ST. CATHARINE STREET	300	VC	69.62	42,911	572
STP247	CHESTNUT STREET	CARRIE CRESCENT	CARRIE CRESCENT	975	CO	51.8	95,429	1,272
STP2303	GLADSTONE AVENUE	HINCKS STREET	SOUTHWICK STREET	525	PVC	51.4	47,050	627
STP1854	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	825	CO	100.1	142,509	1,900
STP648	WOODHAVEN COURT	LOCKE AVENUE	END	300	VC	85.95	52,977	706
STP890	FAIRVIEW AVENUE	FOREST AVENUE	CHESTNUT STREET	450	CO	60.5	42,717	570
STP150	HIGHVIEW DRIVE	MANOR ROAD	NEAL AVENUE	825	CO	47	66,912	892
STP108	CHANT STREET	APPLEWOOD CRESCENT	LAWRENCE AVENUE	975	CO	94.15	173,449	2,313
STP1306	BALACLAVA STREET	EDWARD STREET	HAMMOND STREET	1350	CO	106	247,575	3,301
STP274	CHESTNUT STREET	HIGHVIEW DRIVE	COOK CRESCENT	825	CO	60	85,420	1,139
STP326	HIGHVIEW DRIVE	FALCONRIDGE COURT	CHESTNUT STREET	675	CO	30.9	32,442	433
STP2497	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	450	CO	96.2	67,924	906

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2497	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	2.49	CO	96.2	59,295	791
STP2103	EASEMENT	SWM17	OLD COURSE ROAD	900	CO	19.3	32,093	428
STP880	TAYLOR CRESCENT	ELM STREET	WEST END	250	CO	17.09	10,534	140
STP552	TALBOT STREET	MONDAMIN STREET	PRINCESS AVENUE	675	CO	73.15	76,801	1,024
STP1679	PEACH TREE BOULEVARD	PEAR TREE AVENUE	BRIDLE PATH	675	CO	63.4	66,565	888
STP906	MCCULLY DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	300	VC	62.48	38,511	513
STP1674	MALAKOFF STREET	BALACLAVA STREET	INKERMAN STREET	750	CO	65.4	84,308	1,124
STP1992	NOBLE LANE	RAVEN AVENUE	SOUTH END	900	CO	47.1	78,321	1,044
STP1169	FIFTH AVENUE	MYRTLE STREET	LOCUST STREET	450	VC	96.75	68,312	911
STP171	CAVANAUGH DRIVE	TREVITHICK TERRACE	CHESTNUT STREET	750	CO	85.2	109,833	1,464
STP2520	RENAISSANCE DRIVE	PEAR TREE AVENUE	OXFORD TERRACE	1350	CO	52	121,452	1,619
STP1620	INKERMAN STREET	NOLAN STREET	EDWARD STREET	450	VC	12.9	9,108	121
STP2469	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	300	PVC	47.5	29,277	390
STP568	SCOTT STREET	HIAWATHA STREET	HAMILTON STREET	900	VC	58.83	97,826	1,304
STP2054	WELLINGTON STREET	FIRST AVENUE	TALEQUAH STREET	250	PVC	20.9	12,882	172
STP783	INKERMAN STREET	NOLAN STREET	EDWARD STREET	575	VC	130.45	123,310	1,644
STP2218	PEACH TREE BOULEVARD	EMPIRE PARKWAY	CAROLINA CRESCENT	600	CO	83.2	78,646	1,049
STP453	FINGAL LINE	SUNSET DRIVE	RAILWAY BRIDGE	450	VC	80.77	57,029	760
STP1748	FIRST AVENUE	MYRTLE STREET	LOCUST STREET	375	PVC	90.4	57,882	772
STP1231	FIRST AVENUE	EDWARD STREET	REDAN STREET	750	CO	91.74	118,264	1,577
STP1069	NOLAN STREET	ALMA STREET	BALACLAVA STREET	450	CO	59	41,658	555
STP1762	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	CONFEDERATION DRIVE	450	PVC	102.43	72,322	964
STP287	COOK CRESCENT	CHESTNUT STREET	HIGHVIEW DRIVE	300	PVC	24.3	14,978	200
STP1414	BEECHWOOD CIRCLE	LAKE MARGARET TRAIL	END	525	CO	40.5	37,072	494
STP1091	WILLIAM STREET	CENTRE STREET	ST. ANNE'S PLACE	575	VC	29.08	27,488	367
STP1224	FIRST AVENUE	TALBOT STREET	STEELE STREET	1350	VC	129.72	302,976	4,040
STP859	MCLARTY DRIVE	LUTON CRESCENT	LUTON CRESCENT	525	CO	53.19	48,688	649
STP248	CHESTNUT STREET	CARRIE CRESCENT	CARRIE CRESCENT	1200	CO	477.7	994,317	13,258
STP2182	TANAGER PLACE	HICKORY LANE	END	450	PVC	117.8	83,175	1,109
STP33	DYER STREET	CALDWELL STREET	RAVEN AVENUE	300	CO	50.44	31,090	415
STP1501	THIRD AVENUE	WELLINGTON STREET	NORTH END	250	PVC	36	22,189	296
STP1501	THIRD AVENUE	WELLINGTON STREET	NORTH END	250	PVC	36	22,189	296
STP1544	EASEMENT	DONKER DRIVE	SWM11	600	CO	46.6	44,049	587
STP595	KAINS STREET	HORTON STREET	HUGHES STREET	1200	CO	44.04	91,668	1,222
STP2012	EASEMENT	TAMARACK COURT	AMBLESIDE DRIVE	450	CO	34.7	24,501	327
STP592	ALMA STREET	MALAKOFF STREET	KAINS STREET	675	CO	68	71,394	952
STP1505	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	600	CO	102	96,417	1,286
STP1166	FIFTH AVENUE	WELLINGTON STREET	ERIE STREET	300	VC	82.91	51,103	681
STP2101	EASEMENT	SWM17	OLD COURSE ROAD	900	CO	32.8	54,542	727
STP1688	PEAR TREE AVENUE	PEACH TREE BOULEVARD	HONEY BEND	250	PVC	7	4,315	58
STP1717	PINE VALLEY DRIVE	TAMARACK COURT	AMBLESIDE DRIVE	825	CO	97.5	138,808	1,851
STP2270	MARTINGALE TERRACE	PEACH TREE BOULEVARD	END	675	CO	93.2	97,852	1,305
STP1981	PEACH TREE BOULEVARD	CIDER MILL LANE	MITCHELL HEPBURN PUBLIC SCHOOL	525	CO	71.2	65,174	869
STP632	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	375	CO	81.69	52,305	697
STP1947	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	300	CO	39.167	24,141	322
STP2579	ELM STREET	WILSON AVENUE	PARKSIDE DRIVE	300	PVC	71.4	44,009	587
STP2152	ELGIN STREET	GLADSTONE AVENUE	ROSEBERY PLACE	375	PVC	99.8	63,901	852

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2336	STANLEY STREET	FARLEY PLACE	SUNSET DRIVE	600	CO	49.9	47,169	629
STP1235	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	750	CO	65	83,793	1,117
STP341	TALBOT STREET	BURWELL ROAD	YARMOUTH ROAD	575	CO	134.62	127,252	1,697
STP547	SOUTHWICK STREET	TALBOT STREET	CENTRE STREET	525	CO	101.4	92,818	1,238
STP2408	BURWELL ROAD	HARWILL ROAD	EDWARD STREET	900	CO	96.7	160,799	2,144
STP2230	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	600	CO	22.6	21,363	285
STP1182	LOCUST STREET	ROSS STREET	FIFTH AVENUE	375	VC	76.2	48,790	651
STP378	HIGHVIEW DRIVE	SIFTON DRIVE	WELLINGTON STREET	300	PVC	87.8	54,117	722
STP1781	BEVERLEY STREET	MONDAMIN STREET	ST. CATHARINE STREET	250	PVC	42.6	26,257	350
STP2244	ROSS STREET	TALBOT STREET	CENTRE STREET	525	CO	30.8	28,193	376
STP1405	WELLINGTON STREET	MOORE STREET	ROSS STREET	375	CO	15	9,604	128
STP2164	RUSSET LANE	PEACH TREE BOULEVARD	END	450	CO	42.2	29,796	397
STP1538	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	375	PVC	93.103	59,613	795
STP109	CHANT STREET	APPLEWOOD CRESCENT	APPLEWOOD CRESCENT	975	CO	89.61	165,086	2,201
STP1463	ROSS STREET	NAAMA STREET	WABBUN STREET	375	PVC	62	39,698	529
STP1463	ROSS STREET	WABBUN STREET	OPECHEE STREET	375	PVC	62	39,698	529
STP2058	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	600	CO	58.5	55,298	737
STP1230	FIRST AVENUE	EDWARD STREET	REDAN STREET	750	CO	28.35	36,546	487
STP1062	REDAN STREET	NELSON STREET	WOODWORTH AVENUE	1050	CO	136.25	267,304	3,564
STP2430	MELROSE COURT	PEACH TREE BOULEVARD	END	675	PVC	72.4	76,014	1,014
STP1974	HARVEST COURT	LAWRENCE AVENUE	END	450	CO	66.9	47,236	630
STP331	LEXINGTON COURT	HIGHVIEW DRIVE	END	525	CO	109	99,775	1,330
STP62	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	900	CO	7.32	12,172	162
STP965	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	450	CO	76.5	54,014	720
STP611	CONFEDERATION DRIVE	LAURIER ROAD	LOCKE AVENUE	375	CO	71.02	45,473	606
STP1465	MAPLE STREET	ROSS STREET	FIFTH AVENUE	525	CO	110	100,690	1,343
STP1193	TALBOT STREET	BURWELL ROAD	YARMOUTH ROAD	675	CO	222.99	234,121	3,122
STP300	RICE ROAD	HITCH CRESCENT	MANOR ROAD	300	PVC	41.6	25,641	342
STP300	MANOR ROAD	WEST END	RICE ROAD	300	PVC	41.6	25,641	342
STP347	HITCH CRESCENT	RICE ROAD	RICE ROAD	525	CO	34	31,122	415
STP2275	CURTIS STREET	NEW STREET	ST. GEORGE STREET	300	PVC	35	21,573	288
STP2185	TANAGER PLACE	HICKORY LANE	END	250	PVC	46.9	28,908	385
STP924	OLDEWOOD CRESCENT	NEAL AVENUE	FANJOY DRIVE	675	CO	84.1	88,298	1,177
STP1173	CHESTER STREET	DEVONSHIRE PLACE	WEST AVENUE	450	VC	97.7	68,983	920
STP1786	ELYSIAN STREET	EAST STREET	PENWARDEN STREET	375	PVC	66.88	42,822	571
STP2350	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	525	CO	115.6	105,816	1,411
STP1474	BENNETT PLACE	BURWELL ROAD	WEST END	600	CO	17.3	16,353	218
STP1875	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	575	CO	45.423	42,937	572
STP2038	MANITOBA STREET	KAINS STREET	EDWARD STREET	600	CO	14.3	13,517	180
STP50	AIREY AVENUE	DUNWICH DRIVE	DUNWICH DRIVE	600	CO	58.61	55,402	739
STP2518	RENAISSANCE DRIVE	AUBURN DRIVE	HARLEQUIN COURT	900	CO	96	159,635	2,128
STP1695	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	1050	CO	112.2	220,121	2,935
STP214	ELM STREET	FIRST AVENUE	HOLLAND AVENUE	600	VC	42.06	39,758	530
STP214	ELM STREET	HOLLAND AVENUE	MORRISON DRIVE	600	VC	42.06	39,758	530
STP889	HIGHVIEW DRIVE	CHESTNUT STREET	FOREST AVENUE	450	CO	85.04	60,044	801
STP88	HOLLAND AVENUE	ELM STREET	ALDBOROUGH AVENUE	450	VC	31.7	22,382	298
STP2251	AMELIA STREET	MILL STREET	ROSS STREET	600	CO	19.7	18,622	248
STP2483	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	600	CO	12.8	12,099	161

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2643	STANLEY STREET	CENTRE STREET	WALNUT STREET	375	PVC	64.7	41,427	552
STP2169	CENTRE STREET	METCALFE STREET	ELGIN STREET	300	VC	80.27	49,476	660
STP1724	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	375	PVC	49.8	31,886	425
STP2476	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	250	PVC	8.5	5,239	70
STP892	FAIRVIEW AVENUE	FOREST AVENUE	CHESTNUT STREET	525	CO	275	251,726	3,356
STP1917	AIREY AVENUE	KER STREET	PARISH STREET	250	CO	44.196	27,241	363
STP468	PARK AVENUE	STEELE STREET	MARY STREET EAST	575	CO	47.4	44,806	597
STP752	HEMLOCK STREET	ELMINA STREET	FIFTH AVENUE	200	VC	15.91	9,806	131
STP2201	EMPIRE PARKWAY	PEACH TREE BOULEVARD	END	525	CO	93.5	85,587	1,141
STP966	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	300	PVC	95.1	58,617	782
STP3	LEGER AVENUE	VANIER PLACE	MCGIBBON AVENUE	1200	CO	134.11	279,146	3,722
STP2041	WELLINGTON STREET	PARK AVENUE	HUNTINGTON TERRACE	450	CO	57.2	40,387	538
STP2416	BENJAMIN PARKWAY	SOUTHDAL E LINE	MILLSTONE AVENUE	1650	CO	115.2	386,175	5,149
STP224	WOOD STREET	GLIDDON AVENUE	MANDEVILLE ROAD	525	VC	49.38	45,201	603
STP359	HIGHVIEW DRIVE	RICKWOOD PLACE	RIPLEY LANE	1200	CO	56.7	118,019	1,574
STP359	HIGHVIEW DRIVE	RICKWOOD PLACE	RICKWOOD PLACE	1200	CO	56.7	118,019	1,574
STP346	RICE ROAD	HITCH CRESCENT	HITCH CRESCENT	250	PVC	30	18,491	247
STP1431	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	300	CO	48	29,586	394
STP1651	LAKE MARGARET TRAIL	AXFORD PARKWAY	OSPREY LANE	675	CO	101.7	106,777	1,424
STP518	WILSON AVENUE	CHESTER STREET	ADA STREET	750	CO	101.8	131,232	1,750
STP1663	SANDPIPER PLACE	MOURNING DOVE LANE	WEST END	300	PVC	43	26,504	353
STP1531	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	525	CO	54.3	49,704	663
STP1331	SOUTH EDGEWARE ROAD	BALACLAVA STREET	INKERMAN STREET	975	CO	102	187,911	2,505
STP2274	ST. GEORGE STREET	TALBOT STREET	CURTIS STREET	250	PVC	50	30,818	411
STP329	FALCONRIDGE COURT	HIGHVIEW DRIVE	END	450	CO	100	70,607	941
STP1008	HARRINGTON CRESCENT	SAUVE AVENUE	SAUVE AVENUE	300	PVC	58.1	35,811	477
STP940	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	575	PVC	41.84	39,550	527
STP1261	CHESTER STREET	WILLOW STREET	SUNSET DRIVE	450	CO	45	31,773	424
STP1376	MORRISON DRIVE	ST. JOSEPH STREET	ELM STREET	525	VC	13	11,900	159
STP1506	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	525	CO	85.8	78,539	1,047
STP2142	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	375	PVC	87.4	55,961	746
STP398	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	300	PVC	20.8	12,820	171
STP1761	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	FLEX-O-LITE ROAD	450	PVC	102.43	72,322	964
STP1761	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	CONFEDERATION DRIVE	450	PVC	102.43	72,322	964
STP1181	ARTHUR AVENUE	REDAN STREET	MALAKOFF STREET	375	VC	155.45	99,533	1,327
STP801	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	300	VC	101.5	62,561	834
STP1026	BURWELL ROAD	GREENWAY BOULEVARD	DENNIS ROAD	1200	CO	83.1	172,970	2,306
STP21	VANIER PLACE	KER STREET	EAST END	375	CO	91.44	58,548	781
STP1950	WARBLER HEIGHTS	HUMMINGBIRD LANE	END	250	PVC	46.1	28,415	379
STP397	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	300	PVC	28.7	17,690	236
STP1297	MCGREGOR COURT	END	AVON ROAD	300	PVC	54	33,284	444
STP1772	FIRST AVENUE	HIGHWAY #3 BYPASS	EDWARD STREET	900	CO	36.58	60,828	811
STP187	PARK AVENUE	FOREST AVENUE	CHESTNUT STREET	600	VC	87.78	82,976	1,106
STP1320	AVON ROAD	CONFEDERATION DRIVE	MCGREGOR COURT	375	CO	91.44	58,548	781
STP1859	SUTHERLAND COURT	PINE VALLEY DRIVE	CITY LIMITS	525	CO	40.1	36,706	489
STP1789	FARLEY PLACE	STANLEY STREET	SOUTH END	375	PVC	45.98	29,440	393
STP2454	BALDWIN STREET	FLORA STREET	HUGHES STREET	450	PVC	100.8	71,172	949
STP572	MONDAMIN STREET	CURTIS STREET	SCOTT STREET	450	CO	18.29	12,914	172

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1477	EASEMENT	BENNETT PLACE	BURWELL ROAD	300	PVC	55	33,900	452
STP2400	DIEPPE DRIVE	CHURCHILL CRESCENT	CHURCHILL CRESCENT	375	PVC	30	19,209	256
STP1422	HICKORY LANE	LAKE MARGARET TRAIL	ORIOLE LANE	900	CO	79.7	132,531	1,767
STP367	HIGHVIEW DRIVE	PALMER COURT	MANOR ROAD	300	CO	40	24,655	329
STP142	HIGHVIEW DRIVE	POL COURT	CROATIA COURT	250	VC	46.18	28,464	380
STP968	BURWELL ROAD	PONSFORD PLACE	DONKER DRIVE	900	CO	74.8	124,382	1,658
STP1130	PRINCESS AVENUE	CENTRE STREET	TALBOT STREET	450	CO	40.54	28,624	382
STP1986	RAVEN AVENUE	NOBLE LANE	PEACH TREE BOULEVARD	375	PVC	35.8	22,922	306
STP1351	MANOR ROAD	HIGHVIEW DRIVE	GOLDING PLACE	750	CO	93.9	121,048	1,614
STP1351	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	750	CO	93.9	121,048	1,614
STP1308	BALACLAVA STREET	HAMMOND STREET	SOUTH EDGEWARE ROAD	750	CO	88.6	114,216	1,523
STP945	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	250	PVC	37.9	23,360	311
STP1197	BARWICK STREET	FLORA STREET	HILL STREET	300	VC	84.56	52,120	695
STP492	FAIRVIEW AVENUE	WAREHOUSE STREET	STEELE STREET	300	VC	58.3	35,934	479
STP2567	MYRTLE STREET	THIRD AVENUE	EAST OF THIRD AVENUE	300	PVC	86.5	53,316	711
STP750	ELMINA STREET	OAK STREET	CHURCHILL CRESCENT	575	VC	151.72	143,416	1,912
STP750	ELMINA STREET	OAK STREET	HEMLOCK STREET	575	VC	151.72	143,416	1,912
STP2042	ERMATINGER STREET	MONTGOMERY ROAD	CHURCHILL CRESCENT	300	PVC	5	3,082	41
STP2026	NOBLE LANE	SOUTH END	EAST END	375	PVC	64.8	41,491	553
STP1059	REDAN STREET	ALEXANDRIA AVENUE	FIRST AVENUE	575	VC	63.57	60,091	801
STP1045	COTTONWOOD DRIVE	AMBERWOOD COURT	LINDEN LANE	675	CO	120.4	126,410	1,685
STP683	THORMAN TERRACE	WRIGHT CRESCENT	BURWELL ROAD	600	PVC	87.4	82,616	1,102
STP337	WELLINGTON STREET	FAIRVIEW AVENUE	HIGHVIEW DRIVE	2125	CO	218.85	1,440,343	19,205
STP1140	TALBOT STREET	ROSS STREET	HORTON STREET	1200	CO	58	120,725	1,610
STP2594	ELM STREET	MANDEVILLE ROAD	HEPBURN AVENUE	300	PVC	102.9	63,424	846
STP2273	ERIE STREET	ROSS STREET	SMITH AVENUE	650	CO	89	114,731	1,530
STP2405	BURWELL ROAD	EDWARD STREET	TALBOT STREET	450	PVC	106.2	74,984	1,000
STP416	SIFTON DRIVE	LYFORD COURT	ROSETHORN COURT	375	CO	70.9	45,396	605
STP1495	THIRD AVENUE	WELLINGTON STREET	NORTH END	450	PVC	14.5	10,238	137
STP1343	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	1050	CO	86.7	170,094	2,268
STP1258	WELLINGTON STREET	LYDIA STREET	SMITH AVENUE	600	CO	72.1	68,154	909
STP975	ERINLEA DRIVE	CRESTWOOD COURT	MANOR ROAD	525	CO	26.21	23,992	320
STP1675	MALAKOFF STREET	BALACLAVA STREET	INKERMAN STREET	750	VC	65.4	84,308	1,124
STP626	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	525	CO	40.54	37,109	495
STP917	MANOR ROAD	IDSARDI AVENUE	ERINLEA DRIVE	375	CO	68.67	43,969	586
STP1363	JOYCE STREET	PATRICIA STREET	MCLACHLIN PLACE	450	CO	89	62,840	838
STP392	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	600	CO	96.5	91,218	1,216
STP1034	COTTONWOOD DRIVE	BURWELL ROAD	MAGNOLIA COURT	825	CO	57	81,149	1,082
STP2554	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	END	375	PVC	88.4	56,601	755
STP953	MARY BUCKE STREET	TREVITHICK TERRACE	PARK AVENUE	300	CO	70.41	43,398	579
STP1565	GREENWAY BOULEVARD	HAWTHORN COURT	PINE VALLEY DRIVE	600	CO	109.3	103,318	1,378
STP65	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	900	CO	37.49	62,341	831
STP1116	HINCKS STREET	TALBOT STREET	CENTRE STREET	375	VC	13.59	8,702	116
STP94	PULLEN AVENUE	FRANCES STREET NORTH	FRANCES STREET SOUTH	375	VC	84.21	53,919	719
STP168	COSTELLO COURT	ST. JOSEPH STREET	SOUTH END	750	CO	24.23	31,235	416
STP979	SCHREYER DRIVE	AXFORD PARKWAY	SAUVE AVENUE	375	PVC	102.5	65,629	875
STP282	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	450	CO	99.9	70,536	940
STP2346	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	300	PVC	64.3	39,632	528

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP761	EASEMENT	BALACLAVA STREET	INKERMAN STREET	825	CO	16.15	22,992	307
STP689	THORMAN TERRACE	WRIGHT CRESCENT	END	300	CO	64.5	39,756	530
STP1840	FIRST AVENUE	EDWARD STREET	REDAN STREET	750	CO	10.5	13,536	180
STP1775	STATION STREET	MEDA STREET	NORTH	375	PVC	46	29,453	393
STP2409	BURWELL ROAD	HARWILL ROAD	EDWARD STREET	900	CO	45.4	75,494	1,007
STP2569	FOURTH AVENUE	MYRTLE STREET	LOCUST STREET	750	CO	4.8	6,188	83
STP1708	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	450	CO	41.3	29,161	389
STP2104	EASEMENT	PEBBLE BEACH COURT	OLD COURSE ROAD	1200	CO	64.1	133,422	1,779
STP619	LAURIER ROAD	LOCKE AVENUE	CONFEDERATION DRIVE	375	CO	86.26	55,231	736
STP982	WARBLER HEIGHTS	HUMMINGBIRD LANE	END	450	CO	112.6	79,503	1,060
STP2480	VALDERRAMA LANE	OLD COURSE ROAD	ROYAL DORNOCH DRIVE	375	CO	91	58,266	777
STP2194	DEERFIELD COURT	PINE VALLEY DRIVE	END	600	CO	77.5	73,258	977
STP2505	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	450	CO	26.2	18,499	247
STP1576	PINE VALLEY DRIVE	PRIMROSE COURT	GREENWAY BOULEVARD	300	PVC	30.2	18,614	248
STP2621	CHARTER CREEK COURT	PEACH TREE BOULEVARD	END	600	CO	39.5	37,338	498
STP2621	CHARTER CREEK COURT	PEACH TREE BOULEVARD	END	600	CO	39.5	37,338	498
STP351	HITCH CRESCENT	RICE ROAD	RICE ROAD	450	CO	90.3	63,758	850
STP2314	FIRST AVENUE	TALBOT STREET	STEELE STREET	1500	CO	6	15,090	201
STP740	MONDAMIN STREET	CURTIS STREET	SCOTT STREET	575	VC	10.44	9,869	132
STP791	EDWARD STREET	INKERMAN STREET	WOODWORTH AVENUE	575	VC	106.66	100,822	1,344
STP2083	SHAW VALLEY DRIVE	OLD COURSE ROAD	END	975	CO	51	93,956	1,253
STP2585	ELM STREET	PINAFORE PARK ENTRANCE	ELMINA STREET	600	CO	80	75,621	1,008
STP1828	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	675	CO	51.3	53,861	718
STP1335	SOUTH EDGEWARE ROAD	LOCKE AVENUE	JOYCE STREET	525	CO	81	74,145	989
STP370	YARMOUTH ROAD	NORTH END	MICHIGAN BOULEVARD	600	CO	73.15	69,146	922
STP2051	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	300	PVC	114.8	70,759	943
STP255	CHESTNUT STREET	ERINLEA DRIVE	STOKES ROAD	375	CO	67.97	43,520	580
STP1239	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	600	CO	36	34,030	454
STP709	ELGIN STREET	REGENT STREET	WILSON AVENUE	375	CO	82	52,504	700
STP1362	JOYCE STREET	PATRICIA STREET	MCLACHLIN PLACE	450	CO	60	42,364	565
STP1552	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	675	CO	96.3	101,107	1,348
STP376	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	750	CO	28.7	36,998	493
STP146	ERINLEA DRIVE	CRESTWOOD COURT	MANOR ROAD	450	CO	39.75	28,066	374
STP1723	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	600	CO	79.2	74,865	998
STP85	ALDBOROUGH AVENUE	SPARTA STREET	PULLEN AVENUE	750	VC	50.9	65,616	875
STP1107	EAST STREET	ELYSIAN STREET	NORTH END	300	VC	61.37	37,826	504
STP266	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	1500	CO	58.52	147,179	1,962
STP262	STOKES ROAD	BONNIE PLACE	BONNIE PLACE	1500	CO	28.74	72,282	964
STP639	LOCKE AVENUE	ROSEMOUNT CRESCENT	PINEHURST PLACE	450	CO	26.21	18,506	247
STP2603	ELM STREET	HEPBURN AVENUE	MEEHAN STREET	375	PVC	16.7	10,693	143
STP659	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	450	CO	27.4	19,346	258
STP2501	PEAR TREE AVENUE	AMBROSIA PATH	RENAISSANCE DRIVE	975	CO	36.2	66,690	889
STP1650	LAKE MARGARET TRAIL	AXFORD PARKWAY	OSPREY LANE	675	CO	55.6	58,375	778
STP188	PARK AVENUE	FOREST AVENUE	CHESTNUT STREET	600	VC	42.98	40,628	542
STP294	MANOR ROAD	WEST END	RICE ROAD	900	CO	52.43	87,184	1,162
STP500	HIGH STREET	CHESTNUT STREET	PHILIP STREET	825	CO	72.85	103,714	1,383
STP1783	OWAISSA STREET	HIAWATHA STREET	MONDAMIN STREET	375	PVC	44	28,173	376

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP478	ERIE STREET	FIFTH AVENUE	FOURTH AVENUE	450	CO	17.5	12,356	165
STP2036	MANITOBA STREET	KAINS STREET	EDWARD STREET	600	CO	80.5	76,094	1,015
STP1464	ROSS STREET	NAAMA STREET	WABBUN STREET	375	PVC	26.6	17,032	227
STP1725	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	450	CO	57.3	40,458	539
STP549	TALBOT STREET	HIAWATHA STREET	WHITE STREET	900	CO	70.41	117,082	1,561
STP2141	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	525	CO	108	98,860	1,318
STP1498	THIRD AVENUE	WELLINGTON STREET	NORTH END	900	PVC	57	94,783	1,264
STP1603	BAILEY AVENUE	KANTOR COURT	SOUTH END	375	CO	53.92	34,524	460
STP357	FAIRVIEW AVENUE	FOREST AVENUE	CHESTNUT STREET	525	CO	108.4	99,226	1,323
STP1729	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	300	PVC	56.1	34,578	461
STP714	ROSS STREET	FOREST AVENUE	MYRTLE STREET	1350	CO	257.2	600,721	8,010
STP381	HIGHVIEW DRIVE	SIFTON DRIVE	WELLINGTON STREET	300	PVC	47	28,969	386
STP653	WRIGHT CRESCENT	THORMAN TERRACE	DONKER DRIVE	675	CO	91	95,542	1,274
STP1590	PENHALE AVENUE	FENWICK COURT	54M SOUTH OF FENWICK COURT	250	PVC	43.2	26,627	355
STP2268	MARTINGALE TERRACE	PEACH TREE BOULEVARD	END	525	PVC	40.2	36,798	491
STP1921	FAIRVIEW AVENUE	ALDBOROUGH AVENUE	CALDWELL STREET	300	CO	81.991	50,537	674
STP1345	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	300	CO	76	46,844	625
STP1078	BROCK STREET	HUGHES STREET	ALMA STREET	450	VC	65.53	46,269	617
STP2484	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	600	CO	37.3	35,258	470
STP2484	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	2.406	CO	37.3	22,990	307
STP1614	BARRETT CRESCENT	SOUTHGATE PARKWAY	COLEMAN COURT	600	CO	70.1	66,263	884
STP1333	SOUTH EDGEWARE ROAD	WOODWORTH AVENUE	LOCKE AVENUE	375	CO	87.5	56,025	747
STP245	CHESTNUT STREET	CARRIE CRESCENT	CARRIE CRESCENT	675	CO	34.5	36,222	483
STP1902	LAWRENCE AVENUE	CALDWELL STREET	RAVEN AVENUE	375	CO	35.9	22,986	306
STP2533	STYLES DRIVE	SOUTHDALE LINE	WEIR CRESCENT	300	PVC	13	8,013	107
STP1196	TALBOT STREET	FIRST AVENUE	PARK AVENUE	975	CO	246.66	454,414	6,059
STP520	CHESTER STREET	WILSON AVENUE	EAST AVENUE	750	CO	102.1	131,619	1,755
STP1713	PINE VALLEY DRIVE	ARROWWOOD LANE	WESTLAKE DRIVE	900	CO	30.8	51,216	683
STP2022	ALDERWOOD COURT	ARROWWOOD LANE	CUL-DE-SAC	375	PVC	49.8	31,886	425
STP2023	ALDERWOOD COURT	ARROWWOOD LANE	CUL-DE-SAC	375	PVC	47	30,093	401
STP190	TREVITHICK TERRACE	MARY BUCKE STREET	CAVANAUGH DRIVE	900	CO	51.1	84,973	1,133
STP2122	CIDER MILL LANE	PEACH TREE BOULEVARD	END	250	PVC	42.9	26,442	353
STP53	DUNWICH DRIVE	HOWARD PLACE	AIREY AVENUE	375	CO	79.55	50,935	679
STP1348	HAMMOND STREET	BALACLAVA STREET	INKERMAN STREET	825	CO	3.96	5,638	75
STP807	SPARLING ROAD	EDWARD STREET	ANDERSON AVENUE	375	CO	76.2	48,790	651
STP2127	PEACH TREE BOULEVARD	CAROLINA CRESCENT	CAROLINA CRESCENT	900	CO	60.5	100,603	1,341
STP286	COOK CRESCENT	CHESTNUT STREET	HIGHVIEW DRIVE	300	PVC	71.5	44,070	588
STP2377	DORAL COURT	ST. ANDREWS DRIVE	END	375	CO	58.9	37,713	503
STP1571	HAVENRIDGE COURT	16 HAVENRIDGE COURT	END	300	PVC	82.9	51,097	681
STP1908	RAVEN AVENUE	PORTER PLACE	PENHALE AVENUE	300	CO	28.651	17,660	235
STP1161	MOORE STREET	CENTRE STREET	AMELIA STREET	375	PVC	49.3	31,566	421
STP1849	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	1050	CO	93.2	182,846	2,438
STP710	ELGIN STREET	DENISON AVENUE	REGENT STREET	375	CO	79.2	50,711	676
STP2601	ELM STREET	WOOD STREET	RAPELJE STREET	525	CO	96.9	88,699	1,183
STP432	WELLINGTON STREET	SMITH AVENUE	FIFTH AVENUE	675	CO	63.3	66,460	886
STP200	CROATIA COURT	HIGHVIEW DRIVE	EAST END	300	CO	24.38	15,027	200
STP2600	WOOD STREET	ELM STREET	GLIDDON AVENUE	375	PVC	21.1	13,510	180

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1767	FIRST AVENUE	HIGHWAY #3 BYPASS	EDWARD STREET	525	CO	6.71	6,142	82
STP2183	TANAGER PLACE	HICKORY LANE	END	300	PVC	43.1	26,565	354
STP827	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	200	CO	170.19	104,900	1,399
STP1198	BARWICK STREET	HILL STREET	END	300	VC	79.55	49,032	654
STP1468	ROSETHORN COURT	SIFTON DRIVE	END	375	PVC	42.7	27,340	365
STP131	POL COURT	HIGHVIEW DRIVE	PADDON STREET	450	CO	72.24	51,006	680
STP658	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	375	PVC	14.6	9,348	125
STP1150	MARGARET STREET	VICTORIA STREET	PRINCE ALBERT STREET	525	VC	77.27	70,730	943
STP836	HEPBURN AVENUE	ELM STREET	GLIDDON AVENUE	375	CO	91.29	58,452	779
STP1666	RHONDA COURT	ELM STREET	NORTH END	600	CO	48.16	45,524	607
STP256	CHESTNUT STREET	STOKES ROAD	MANOR ROAD	1350	CO	90.83	212,144	2,829
STP977	MANOR ROAD	WEST END	RICE ROAD	825	CO	50.7	72,180	962
STP1095	ST. ANNE'S PLACE	QUEEN STREET	METCALFE STREET	450	VC	98.25	69,371	925
STP684	THORMAN TERRACE	WRIGHT CRESCENT	END	600	PVC	55	51,990	693
STP841	FIRST AVENUE	ELM STREET	MANDEVILLE ROAD	300	CO	35.97	22,171	296
STP1784	CURTIS STREET	HIAWATHA STREET	MONDAMIN STREET	375	PVC	46.1	29,517	394
STP1610	HAGERMAN CRESCENT	EAST BEND	SOUTHGATE PARKWAY	375	PVC	98.6	63,132	842
STP1820	ELGIN STREET	GLADSTONE AVENUE	ROSEBERY PLACE	375	VC	48.2	30,862	411
STP2493	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	2.22	CO	72.6	44,748	597
STP2493	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	525	CO	72.6	66,456	886
STP2111	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	375	PVC	81.1	51,927	692
STP2507	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	300	PVC	15.2	9,369	125
STP2333	STANLEY STREET	VICTORIA STREET	FARLEY PLACE	600	CO	55.1	52,084	694
STP436	WELLINGTON STREET	FIFTH AVENUE	FOURTH AVENUE	1050	CO	85.7	168,132	2,242
STP1373	SCOTT STREET	MONDAMIN STREET	ST. CATHARINE STREET	1800	CO	45.87	178,453	2,379
STP1570	HAVENRIDGE COURT	16 HAVENRIDGE COURT	END	750	CO	70	90,238	1,203
STP1273	TALBOT STREET	ALMA STREET	BALACLAVA STREET	525	CO	59.1	54,098	721
STP1005	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	975	CO	65.1	119,932	1,599
STP172	CAVANAUGH DRIVE	TREVITHICK TERRACE	CHESTNUT STREET	250	CO	43.47	26,793	357
STP942	CHESTNUT STREET	HIGHVIEW DRIVE	COOK CRESCENT	250	CO	40.5	24,963	333
STP471	MYRTLE STREET	FIRST AVENUE	GREGORY PLACE	450	CO	95.4	67,359	898
STP1499	THIRD AVENUE	WELLINGTON STREET	NORTH END	300	PVC	100	61,637	822
STP1004	SAUVE AVENUE	HARRINGTON CRESCENT	HARRINGTON CRESCENT	900	CO	114.8	190,897	2,545
STP1004	SAUVE AVENUE	SCHREYER DRIVE	HARRINGTON CRESCENT	900	CO	114.8	190,897	2,545
STP1785	EAST STREET	ELYSIAN STREET	NORTH END	300	VC	12.9	7,951	106
STP2527	AUBURN DRIVE	OXFORD TERRACE	CENTENNIAL AVENUE	300	PVC	40.4	24,901	332
STP2389	GLENWOOD AVENUE	TYANDAGA STREET	LYNDALE STREET	300	CO	45.8	28,230	376
STP1989	RAVEN AVENUE	NOBLE LANE	PEACH TREE BOULEVARD	450	CO	23.5	16,593	221
STP2462	CORA STREET	ST. GEORGE STREET	BURROWS AVENUE	300	PVC	10.1	6,225	83
STP593	KAINS STREET	MANITOBA STREET	ALMA STREET	975	CO	105.7	194,728	2,596
STP2165	ELGIN STREET	ST. ANNE'S PLACE	WELLINGTON STREET	450	CO	78.3	55,285	737
STP2639	CENTRE STREET	ELGIN STREET	HINCKS STREET	375	PVC	91.6	58,650	782
STP2477	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	250	PVC	32.7	20,155	269
STP2453	BALDWIN STREET	FLORA STREET	HUGHES STREET	375	PVC	60.3	38,609	515
STP2033	MANITOBA STREET	KAINS STREET	EDWARD STREET	375	CO	41.9	26,828	358
STP1111	GLADSTONE AVENUE	METCALFE STREET	ELGIN STREET	900	VC	60.05	99,855	1,331
STP2421	BIRCHALL LANE	BENJAMIN PARKWAY	END	450	CO	62.8	44,341	591
STP2031	MANITOBA STREET	EDWARD STREET	KAINS STREET	525	CO	88.1	80,644	1,075

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2138	EASEMENT	24 BLAIRMONT TERRACE	SOUTHGATE PARKWAY	300	PVC	57.7	35,564	474
STP1459	HEMLOCK STREET	ROSS STREET	ELMINA STREET	750	CO	49.4	63,682	849
STP2428	PEACH TREE BOULEVARD	FOX HOLLOW COURT	CORTLAND TERRACE	750	CO	95.2	122,724	1,636
STP1856	AMBLESIDE DRIVE	PINE VALLEY DRIVE	WESTLAKE DRIVE	1050	CO	51.1	100,251	1,337
STP2345	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	600	CO	124.9	118,064	1,574
STP1642	HUMMINGBIRD LANE	OSPREY LANE	WARBLER HEIGHTS	375	PVC	47.1	30,158	402
STP2198	BLAIRMONT TERRACE	BEND	PEACH TREE BOULEVARD	375	PVC	74.4	47,637	635
STP1862	SPARLING ROAD	SPACKMAN BOULEVARD	ANDERSON AVENUE	525	CO	4.572	4,185	56
STP1760	SOUTH EDGEWARE ROAD	FIRST AVENUE	FLEX-O-LITE ROAD	525	PVC	102.43	93,761	1,250
STP1760	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	FLEX-O-LITE ROAD	525	PVC	102.43	93,761	1,250
STP362	HIGHVIEW DRIVE	FARMINGTON DRIVE	FARMINGTON DRIVE	1200	CO	97.8	203,567	2,714
STP1295	WOODHAVEN COURT	LOCKE AVENUE	END	375	CO	43.1	27,596	368
STP1727	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	375	PVC	36.1	23,114	308
STP1771	FIRST AVENUE	HIGHWAY #3 BYPASS	EDWARD STREET	375	CO	67.06	42,938	573
STP897	CHESTNUT STREET	FAIRVIEW AVENUE	ASPEN AVENUE	450	CO	62.33	44,009	587
STP1452	ORIOLE LANE	HICKORY LANE	CUL-DE-SAC	375	PVC	38.4	24,587	328
STP596	HORTON STREET	CELESTINE STREET	KAINS STREET	750	CO	6.7	8,637	115
STP304	ASPEN AVENUE	FOREST AVENUE	CHESTNUT STREET	450	CO	55.78	39,384	525
STP233	MEEHAN STREET	DUNKIRK DRIVE	ELM STREET	975	CO	84.58	155,819	2,078
STP1435	CRANBERRY COURT	RIVERBANK DRIVE	END	300	PVC	87.5	53,932	719
STP962	MCGREGOR COURT	AVON ROAD	BURWELL ROAD	525	PVC	33.5	30,665	409
STP1557	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	600	CO	78	73,731	983
STP1764	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	900	CO	18.9	31,428	419
STP2098	EASEMENT	SWM17	OLD COURSE ROAD	900	CO	32.8	54,542	727
STP823	ALMA STREET	HIGHWAY #3 BYPASS	EDWARD STREET	575	VC	28.25	26,704	356
STP2401	DUNKIRK DRIVE	CHURCHILL CRESCENT	MEEHAN STREET	450	PVC	28	19,770	264
STP2450	FLORA STREET	KAINS STREET	BALDWIN STREET	525	CO	100.6	92,086	1,228
STP1268	ELYSIAN STREET	WEST PEARL STREET	PEARL STREET	375	VC	96.45	61,756	823
STP1052	BALACLAVA STREET	EDWARD STREET	HAMMOND STREET	850	CO	83.55	153,921	2,052
STP2040	AMBLESIDE DRIVE	PINE VALLEY DRIVE	WESTLAKE DRIVE	300	PVC	61.2	37,722	503
STP2540	WEIR CRESCENT	STYLES DRIVE	STYLES DRIVE	600	CO	82.3	77,795	1,037
STP119	ELM STREET	RAPELJE STREET	FIRST AVENUE	300	VC	44.81	27,619	368
STP70	ALDBOROUGH AVENUE	PULLEN AVENUE	HOLLAND AVENUE	750	CO	23.16	29,856	398
STP778	SILVER STREET	BURWELL ROAD	END	1350	CO	21.65	50,566	674
STP475	ERIE STREET	FOURTH AVENUE	THIRD AVENUE	1350	CO	97.3	227,256	3,030
STP774	BURWELL ROAD	SANDERS COURT	MCGREGOR COURT	600	CO	45.87	43,359	578
STP1151	ELGIN STREET	DENISON AVENUE	REGENT STREET	375	CO	77	49,302	657
STP2180	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	750	CO	14.7	18,950	253
STP1530	BILL MARTYN PARKWAY	SAUVE AVENUE	SOUTHDAL E LINE	1050	CO	117.9	231,304	3,084
STP1019	BURWELL ROAD	RON MCNEIL LINE	BROOKSIDE DRIVE	525	CO	65.4	59,865	798
STP2085	OAKMONT STREET	SHAW VALLEY DRIVE	TURNBERRY COURT	1050	CO	52	102,017	1,360
STP770	BURWELL ROAD	BENNETT PLACE	SOUTH EDGEWARE ROAD	975	CO	85.34	157,219	2,096
STP112	APPLEWOOD CRESCENT	CHANT STREET	CHANT STREET	525	CO	90.22	82,584	1,101
STP514	WILSON AVENUE	GLENBANNER STREET	SUNSET DRIVE	450	CO	65.3	46,106	615
STP853	BUTLER DRIVE	LAWRENCE AVENUE	LAWRENCE AVENUE	525	CO	91.9	84,122	1,122
STP1232	FIRST AVENUE	EDWARD STREET	REDAN STREET	725	CO	22.56	29,082	388
STP302	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	300	CO	79.7	49,124	655
STP676	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	900	CO	27	44,897	599

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP620	LOCKE AVENUE	LAURIER ROAD	CONFEDERATION DRIVE	450	CO	40.84	28,836	384
STP2474	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	250	PVC	8.5	5,239	70
STP194	CHESTNUT STREET	FAIRVIEW AVENUE	ASPEN AVENUE	300	CO	44.81	27,619	368
STP1932	EASEMENT	AVON ROAD	BURWELL ROAD	200	PVC	56	34,517	460
STP1932	EASEMENT	AVON ROAD	BURWELL ROAD	200	PVC	56	34,517	460
STP84	ALDBOROUGH AVENUE	PULLEN AVENUE	HOLLAND AVENUE	750	VC	5	6,446	86
STP2105	EASEMENT	PEBBLE BEACH COURT	OLD COURSE ROAD	1200	CO	97.5	202,943	2,706
STP472	LOCUST STREET	FIRST AVENUE	GREGORY PLACE	600	CO	95.4	90,178	1,202
STP1510	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	300	PVC	29.2	17,998	240
STP306	FOREST AVENUE	DAUGHARTY DRIVE	FAIRVIEW AVENUE	600	CO	104.55	98,828	1,318
STP1200	HILL STREET	BARWICK STREET	END	575	VC	166.6	157,482	2,100
STP1911	LEGER AVENUE	MCGIBBON AVENUE	FAIRVIEW AVENUE	375	CO	46.33	29,665	396
STP1134	TALBOT STREET	JOHN STREET	ROSS STREET	900	CO	74.7	124,216	1,656
STP1237	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	750	CO	8.17	10,532	140
STP1246	HIGHVIEW DRIVE	WINDEMERE PLACE	STEEPLECHASE COURT	975	CO	87.4	161,014	2,147
STP2065	WELLINGTON STREET	QUEEN STREET	METCALFE STREET	300	PVC	32.2	19,847	265
STP90	PULLEN AVENUE	FRANCES STREET SOUTH	ALDBOROUGH AVENUE	375	VC	18.5	11,845	158
STP320	FOREST AVENUE	SECOND AVENUE	FIRST AVENUE	900	CO	96.62	160,666	2,142
STP2299	QUEEN STREET	CENTRE STREET	ST. ANNE'S PLACE	450	PVC	67	47,306	631
STP1310	EASEMENT	BALACLAVA STREET	INKERMAN STREET	825	CO	57	81,149	1,082
STP1901	CALDWELL STREET	DYER STREET	MCLARTY DRIVE	575	VC	41.653	39,373	525
STP2572	HUGHES STREET	KAINS STREET	MARIAM STREET	450	PVC	50.4	35,586	474
STP1035	AMBERWOOD COURT	COTTONWOOD DRIVE	END	300	PVC	64.3	39,632	528
STP2297	TALBOT HILL	WELLINGTON ROAD	WOODLAND ROAD	600	CO	65	61,442	819
STP908	HIGHVIEW DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	1050	CO	94.85	186,083	2,481
STP45	GLANWORTH AVENUE	ASHTON PLACE	THOMPSON AVENUE	300	VC	90	55,473	740
STP1607	KANTOR COURT	BAILEY AVENUE	CUL-DE-SAC	450	CO	92.9	65,594	875
STP1011	AXFORD PARKWAY	SCHREYER DRIVE	SAUVE AVENUE	300	PVC	79.54	49,026	654
STP1887	ASPEN AVENUE	FOREST AVENUE	CHESTNUT STREET	300	PVC	39.366	24,264	324
STP1222	NEAL AVENUE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	825	CO	35.2	50,113	668
STP1241	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	900	CO	33	54,875	732
STP1408	ST. CATHARINE STREET	TALBOT STREET	CURTIS STREET	575	VC	12.46	11,778	157
STP345	WELLINGTON STREET	STOKES ROAD	RICE ROAD	1200	CO	12.19	25,373	338
STP467	PARK AVENUE	WAREHOUSE STREET	STEELE STREET	575	CO	59.49	56,234	750
STP896	CAVANAUGH DRIVE	TREVITHICK TERRACE	CHESTNUT STREET	375	VC	41.6	26,636	355
STP2371	OAKMONT STREET	TURNBERRY COURT	DORAL COURT	825	CO	97.5	138,808	1,851
STP2029	LAKE MARGARET TRAIL	OSPREY LANE	HUMMINGBIRD LANE	600	CO	80.6	76,189	1,016
STP2123	CIDER MILL LANE	PEACH TREE BOULEVARD	END	300	PVC	74.9	46,166	616
STP1164	LOCUST STREET	FIFTH AVENUE	FOURTH AVENUE	450	VC	116.97	82,589	1,101
STP2364	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	375	PVC	89.9	57,562	767
STP02247	ROSS STREET	TALBOT STREET	CENTRE STREET	150	PVC	30	18,491	247
STP2360	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	450	CO	52.2	36,857	491
STP1595	CHAMBERLAIN COURT	PENHALE AVENUE	CUL-DE-SAC	600	CO	97.9	92,542	1,234
STP497	CHESTNUT STREET	FIRST AVENUE	HIGH STREET	675	CO	93.73	98,409	1,312
STP973	ERINLEA DRIVE	CRESTWOOD COURT	MANOR ROAD	300	CO	48.46	29,869	398
STP114	MCLARTY DRIVE	LUTON CRESCENT	LUTON CRESCENT	600	CO	82.6	78,079	1,041
STP817	EDWARD STREET	BALACLAVA STREET	INKERMAN STREET	450	CO	59.32	41,884	558
STP2398	CHURCHILL CRESCENT	MEEHAN STREET	DUNKIRK DRIVE	675	CO	29	30,448	406

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1562	GLENVIEW COURT	BURWELL ROAD	END	300	PVC	8.5	5,239	70
STP2570	SOUTHWICK STREET	WELLINGTON STREET	GLADSTONE AVENUE	300	PVC	9.7	5,979	80
STP2059	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	600	CO	68.5	64,751	863
STP2082	SHAW VALLEY DRIVE	PEBBLE BEACH COURT	OLD COURSE ROAD	300	CO	48	29,586	394
STP260	STOKES ROAD	BONNIE PLACE	CHESTNUT STREET	250	CO	45.11	27,804	371
STP1648	WELLINGTON STREET	SECOND AVENUE	FIRST AVENUE	3000	CO	101.43	978,411	13,045
STP602	FLORA STREET	TALBOT STREET	KAINS STREET	1350	CO	90.96	212,448	2,833
STP862	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	525	CO	77.42	70,868	945
STP706	LEILA STREET	OLIVER STREET	PALM STREET	600	PVC	41.7	39,418	526
STP706	LEILA STREET	OLIVER STREET	ROSS STREET	600	PVC	41.7	39,418	526
STP2636	CENTRE STREET	HINCKS STREET	SOUTHWICK STREET	375	PVC	100.8	64,541	861
STP1012	AXFORD PARKWAY	SCHREYER DRIVE	SAUVE AVENUE	375	PVC	80.27	51,396	685
STP292	HIGHVIEW DRIVE	CHESTNUT STREET	FOREST AVENUE	375	CO	37.8	24,203	323
STP2320	STANLEY STREET	FARLEY PLACE	SUNSET DRIVE	300	PVC	43.9	27,059	361
STP439	WELLINGTON STREET	FOURTH AVENUE	THIRD AVENUE	600	CO	106.8	100,955	1,346
STP2132	BLAIRMONT TERRACE	SOUTHGATE PARKWAY	BEND	525	CO	0.6	549	7
STP2573	HUGHES STREET	KAINS STREET	MARIAM STREET	375	PVC	50.2	32,142	429
STP2573	HUGHES STREET	MARIAM STREET	BALDWIN STREET	375	PVC	50.2	32,142	429
STP121	FIRST AVENUE	ELM STREET	MANDEVILLE ROAD	675	CO	14.94	15,686	209
STP656	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	375	PVC	58.7	37,585	501
STP1390	INKERMAN STREET	NOLAN STREET	EDWARD STREET	575	VC	137.54	130,012	1,733
STP1399	CHURCHILL CRESCENT	COYNE STREET	ERMATINGER STREET	375	VC	73.15	46,837	624
STP1399	CHURCHILL CRESCENT	ERMATINGER STREET	MEEHAN STREET	375	VC	73.15	46,837	624
STP1260	WELLINGTON STREET	LYDIA STREET	SMITH AVENUE	450	CO	60.48	42,703	569
STP2385	EASEMENT	22 DORAL COURT	DORAL COURT	450	CO	28.8	20,335	271
STP2070	CHESTNUT STREET	FIFTH AVENUE	THIRD AVENUE	450	PVC	78.75	55,603	741
STP1277	TALBOT STREET	QUEEN STREET	METCALFE STREET	825	CO	60.5	86,132	1,148
STP1044	COTTONWOOD DRIVE	GOLDENROD COURT	LINDEN LANE	525	CO	28.8	26,363	352
STP371	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	825	CO	61.5	87,556	1,167
STP1819	INKERMAN STREET	WELDON AVENUE	MALAKOFF STREET	600	CO	26.1	24,671	329
STP2619	RENAISSANCE DRIVE	AUBURN DRIVE	HARLEQUIN COURT	900	CO	111.1	184,745	2,463
STP422	ROSETHORN COURT	WELLINGTON STREET	RODNEY CRESCENT	675	CO	39.5	41,472	553
STP1189	BURWELL ROAD	EDWARD STREET	TALBOT STREET	750	CO	70.49	90,870	1,212
STP186	PARK AVENUE	FOREST AVENUE	CHESTNUT STREET	525	VC	64.01	58,593	781
STP1175	CHESTER STREET	WILLOW STREET	SUNSET DRIVE	525	CO	65	59,499	793
STP31	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	375	CO	11.28	7,222	96
STP835	PRINCE ALBERT STREET	MARGARET STREET	ISABEL STREET	300	VC	97.59	60,151	802
STP662	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	250	PVC	50.9	31,373	418
STP1730	SUNSET DRIVE	ELM STREET	CHESTER STREET	450	VC	21	14,827	198
STP1730	SUNSET DRIVE	BUSH LINE	CHESTER STREET	450	VC	21	14,827	198
STP2383	EASEMENT	22 DORAL COURT	DORAL COURT	450	CO	28.8	20,335	271
STP1836	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	1050	CO	41.5	81,417	1,086
STP1973	HARVEST COURT	LAWRENCE AVENUE	END	375	PVC	54.5	34,896	465
STP1622	INKERMAN STREET	NOLAN STREET	EDWARD STREET	575	VC	74.35	70,281	937
STP1582	PENHALE AVENUE	SOUTHGATE PARKWAY	FENWICK COURT	375	CO	9.52	6,096	81
STP1915	LEGER AVENUE	ALDBOROUGH AVENUE	VANIER PLACE	375	CO	42.672	27,322	364
STP1572	EASEMENT	HAVENRIDGE COURT	SWM12	750	CO	58.6	75,542	1,007
STP1023	BURWELL ROAD	COTTONWOOD DRIVE	GREENWAY BOULEVARD	1200	CO	105.1	218,762	2,917

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP79	ALDBOROUGH AVENUE	GLANWORTH AVENUE	AIREY AVENUE	1200	VC	43.07	89,649	1,195
STP987	LAKE MARGARET TRAIL	AXFORD PARKWAY	BLUE HERON PLACE	750	CO	72.8	93,848	1,251
STP800	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	900	CO	41.22	68,543	914
STP250	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	300	CO	50.6	31,188	416
STP458	WELLINGTON STREET	FIRST AVENUE	TALEQUAH STREET	450	CO	29.64	20,928	279
STP377	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	750	CO	23.8	30,681	409
STP1542	EASEMENT	AVON ROAD	BURWELL ROAD	450	CO	59	41,658	555
STP1445	SOUTHGATE PARKWAY	FAIRVIEW AVENUE	FAITH BOULEVARD	575	VC	8.24	7,789	104
STP1847	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	450	CO	67.06	47,349	631
STP2071	CHESTNUT STREET	FIFTH AVENUE	THIRD AVENUE	600	CO	61.2	57,850	771
STP1683	CHERRY BLOSSUM LANE	PEACH TREE BOULEVARD	WEST END	450	CO	108	76,255	1,017
STP354	HITCH CRESCENT	RICE ROAD	RICE ROAD	300	CO	47	28,969	386
STP1336	SOUTH EDGEWARE ROAD	FIRST AVENUE	FLEX-O-LITE ROAD	600	CO	100.3	94,810	1,264
2645	STANLEY STREET	ST. ANNE'S PLACE	WILLIAM STREET	525	CO	39.6	36,249	483
STP2553	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	525	CO	80.8	73,962	986
STP2590	ELM STREET	PINAFORE PARK ENTRANCE	ELMINA STREET	525	CO	100	91,537	1,220
STP525	CHESTER STREET	EAST AVENUE	VICTOR DRIVE	825	CO	14.9	21,213	283
STP495	FAIRVIEW AVENUE	SINCLAIR AVENUE	WAREHOUSE STREET	300	VC	30.48	18,787	250
STP1199	HILL STREET	BARWICK STREET	END	375	VC	77.57	49,667	662
STP834	FIRST AVENUE	STEELE STREET	MARY STREET EAST	575	VC	27.74	26,222	350
STP1303	ROSS STREET	ERIE STREET	MCINTYRE STREET	375	VC	126.53	81,016	1,080
STP1303	ROSS STREET	WELLINGTON STREET	ERIE STREET	375	VC	126.53	81,016	1,080
STP2276	MANOR ROAD	HIGHVIEW DRIVE	WELLINGTON STREET	250	PVC	41	25,271	337
STP399	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	600	CO	7.2	6,806	91
STP912	MANOR ROAD	HIGHVIEW DRIVE	ELM STREET	525	CO	96.62	88,443	1,179
STP759	SOUTH EDGEWARE ROAD	INKERMAN STREET	DALEWOOD DRIVE	600	CO	93.5	88,382	1,178
STP66	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	825	CO	16.46	23,434	312
STP877	TAYLOR CRESCENT	ELM STREET	WEST END	300	CO	52.12	32,125	428
STP129	PAULSON COURT	VANBUSKIRK DRIVE	WEST END	250	CO	65.23	40,206	536
STP1728	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	375	PVC	36.1	23,114	308
STP1257	WELLINGTON STREET	LYDIA STREET	SMITH AVENUE	525	CO	69.7	63,801	851
STP2458	ST. GEORGE STREET	ELYSIAN STREET	CORA STREET	375	PVC	101.6	65,053	867
STP702	HINCKS STREET	WELLINGTON STREET	GLADSTONE AVENUE	750	VC	84.07	108,376	1,445
STP2538	STYLES DRIVE	SUGAR BUSH PATH	FOXTAIL LANE	825	CO	53.5	76,166	1,016
STP1229	FIRST AVENUE	EDWARD STREET	REDAN STREET	750	VC	96.01	123,768	1,650
STP493	FAIRVIEW AVENUE	WAREHOUSE STREET	STEELE STREET	575	VC	13	12,288	164
STP493	FAIRVIEW AVENUE	WAREHOUSE STREET	STEELE STREET	575	VC	13	12,288	164
STP1262	CHESTER STREET	WILLOW STREET	HENRY STREET	525	VC	74.47	68,167	909
STP1832	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	825	CO	95.2	135,533	1,807
STP98	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	300	CO	51.39	31,675	422
STP1579	HAWTHORN COURT	GREENWAY BOULEVARD	END	300	PVC	26.2	16,149	215
STP430	FOREST AVENUE	DAUGHARTY DRIVE	FAIRVIEW AVENUE	250	PVC	48	29,586	394
STP2361	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	375	PVC	45.6	29,197	389
STP1874	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	575	CO	51.377	48,565	648
STP272	BONNIE PLACE	STOKES ROAD	STOKES ROAD	525	CO	76.2	69,751	930
STP636	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	750	CO	49.38	63,657	849
STP1369	MONDAMIN STREET	CURTIS STREET	SCOTT STREET	450	CO	81.38	57,460	766

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP657	EASEMENT	PONSFORD PLACE	THORMAN TERRACE	600	PVC	105.7	99,915	1,332
STP519	WILSON AVENUE	CHESTER STREET	ADA STREET	750	CO	111.8	144,123	1,922
STP179	WELLINGTON STREET	RODNEY CRESCENT	COULTER AVENUE	375	PVC	75.5	48,342	645
STP179	WELLINGTON STREET	ROSETHORN COURT	RODNEY CRESCENT	375	PVC	75.5	48,342	645
STP104	PARISH STREET	ALDBOROUGH AVENUE	AIREY AVENUE	300	CO	50.29	30,997	413
STP2286	CASO CROSSING	WELLINGTON STREET	TALBOT STREET	525	CO	74.3	68,012	907
STP1984	RAVEN AVENUE	NOBLE LANE	PEACH TREE BOULEVARD	675	CO	106.4	111,711	1,489
STP147	NEAL AVENUE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	750	CO	116.4	150,053	2,001
STP1486	SOUTHGATE PARKWAY	PENHALE AVENUE	BLAIRMONT TERRACE	1050	CO	110	215,805	2,877
STP857	ELM STREET	CHANT STREET	MANOR ROAD	1200	CO	113.2	235,622	3,142
STP857	ELM STREET	SUNSET DRIVE	WILSON AVENUE	1200	CO	113.2	235,622	3,142
STP548	HINCKS STREET	TALBOT STREET	CENTRE STREET	450	CO	16.76	11,834	158
STP2460	ST. GEORGE STREET	CORA STREET	NORTH CITY LIMITS	375	PVC	100.7	64,477	860
STP1968	LAWRENCE AVENUE	BUTLER DRIVE	MAJESTIC COURT	375	CO	43.1	27,596	368
STP1678	PEACH TREE BOULEVARD	CHERRY BLOSSUM LANE	PEAR TREE AVENUE	1050	CO	9.37	18,383	245
STP688	THORMAN TERRACE	WRIGHT CRESCENT	END	300	CO	37	22,806	304
STP1085	PEARL STREET	TALBOT STREET	CURTIS STREET	575	VC	43.85	41,450	553
STP854	LAWRENCE AVENUE	CHANT STREET	CALDWELL STREET	575	VC	83.02	78,476	1,046
STP1100	EAGLE STREET	MONDAMIN STREET	ST. CATHARINE STREET	575	VC	71.19	67,294	897
STP1774	STATION STREET	KAINS STREET	MEDA STREET	450	PVC	101	71,313	951
STP484	ERIE STREET	TALEQUAH STREET	PARK AVENUE	525	CO	230.18	210,699	2,809
STP1488	SOUTHGATE PARKWAY	FAITH BOULEVARD	HAGERMAN CRESCENT	1500	CO	82.7	207,992	2,773
STP198	HIGHVIEW DRIVE	CROATIA COURT	CHESTNUT STREET	300	CO	21.95	13,529	180
STP2441	PEACH TREE BOULEVARD	MELROSE COURT	SOUTHDALE LINE	300	PVC	34.1	21,018	280
STP1304	BALACLAVA STREET	NOLAN STREET	EDWARD STREET	1350	CO	211	492,815	6,571
STP28	MCLARTY DRIVE	CALDWELL STREET	LUTON CRESCENT	600	CO	84.43	79,809	1,064
STP1726	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	450	CO	71.9	50,766	677
STP1913	LEGER AVENUE	ALDBOROUGH AVENUE	VANIER PLACE	300	CO	36.576	22,544	301
STP1427	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	AUGUSTA CRESCENT	750	CO	72.7	93,719	1,250
STP1103	ST. CATHARINE STREET	ANTRIM STREET	BEVERLEY STREET	575	VC	109.42	103,431	1,379
STP1103	ST. CATHARINE STREET	EAGLE STREET	ANTRIM STREET	575	VC	109.42	103,431	1,379
STP2370	ARBOR TRAIL	CAROLINA CRESCENT	END	450	CO	45.3	31,985	426
STP2561	MYRTLE STREET	SMITH AVENUE	FIFTH AVENUE	525	CO	110.6	101,240	1,350
STP2355	PEACH TREE BOULEVARD	CAROLINA CRESCENT	CAROLINA CRESCENT	900	CO	56.6	94,118	1,255
STP1264	WEST AVENUE	REGENT STREET	CHESTER STREET	375	VC	113.2	72,481	966
STP1424	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	SUNSET DRIVE	300	CO	48.8	30,079	401
STP1920	DUNWICH DRIVE	HOWARD PLACE	AIREY AVENUE	250	CO	54.559	33,628	448
STP2306	HINCKS STREET	WELLINGTON STREET	GLADSTONE AVENUE	825	CO	14.6	20,786	277
STP845	FIRST AVENUE	ELM STREET	MANDEVILLE ROAD	675	CO	33.53	35,204	469
STP1591	PENHALE AVENUE	KENSINGTON COURT	CHAMBERLAIN COURT	250	PVC	43.5	26,812	357
STP1057	WOODWORTH AVENUE	REDAN STREET	EDWARD STREET	450	VC	28.96	20,448	273
STP1284	HIAWATHA STREET	MEDA STREET	NORTH END	300	VC	48.22	29,721	396
STP2380	EASEMENT	22 DORAL COURT	DORAL COURT	450	CO	24	16,946	226
STP615	WARREN CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	575	CO	37.15	35,117	468
STP332	LEXINGTON COURT	HIGHVIEW DRIVE	END	300	PVC	15	9,246	123
STP1914	LEGER AVENUE	VANIER PLACE	MCGIBBON AVENUE	375	CO	43.586	27,908	372
STP311	FOREST AVENUE	FAIRVIEW AVENUE	ASPEN AVENUE	675	CO	65.23	68,486	913
STP654	WRIGHT CRESCENT	THORMAN TERRACE	DONKER DRIVE	675	CO	72	75,594	1,008

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1922	FAIRVIEW AVENUE	ALDBOROUGH AVENUE	CALDWELL STREET	300	CO	28	17,258	230
STP1657	MOURNING DOVE LANE	HUMMINGBIRD LANE	SANDPIPER PLACE	600	CO	66.2	62,577	834
STP1319	AVON ROAD	CONFEDERATION DRIVE	MCGREGOR COURT	300	CO	42.37	26,115	348
STP2395	CHURCHILL CRESCENT	DUNKIRK DRIVE	DIEPPE DRIVE	450	PVC	81.1	57,262	763
STP191	CHESTNUT STREET	ASPEN AVENUE	HIGHVIEW DRIVE	450	CO	94.34	66,610	888
STP2018	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	450	CO	46	32,479	433
STP1934	EASEMENT	AVON ROAD	BURWELL ROAD	450	VC	5.139	3,628	48
STP1758	EASEMENT	HAVENRIDGE COURT	SWM12	900	CO	50	83,143	1,109
STP1758	EASEMENT	HAVENRIDGE COURT	SWM12	900	CO	50	83,143	1,109
STP1858	EASEMENT	ARROWWOOD LANE	SWM20	1500	CO	54.9	138,074	1,841
STP2004	LAKE MARGARET TRAIL	BLUE HERON PLACE	BEECHWOOD CIRCLE	300	PVC	61.6	37,968	506
STP1079	BROCK STREET	HUGHES STREET	ALMA STREET	300	VC	66.14	40,767	544
STP15	MASSEY DRIVE	ALDBOROUGH AVENUE	MICHENER COURT	525	CO	57.91	53,009	707
STP1885	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	300	PVC	44.2	27,243	363
STP2369	ARBOR TRAIL	CAROLINA CRESCENT	END	375	PVC	66.7	42,707	569
STP1605	REDTAIL COURT	BAILEY AVENUE	EAST END	300	PVC	91	56,089	748
STP2612	REDHAVEN LANE	AUBURN DRIVE	END	250	PVC	51.4	31,681	422
STP1547	BROOKSIDE DRIVE	BURWELL ROAD	MEADOWVALE DRIVE	825	CO	47.9	68,194	909
STP1660	MOURNING DOVE LANE	MONARCH COURT	NORTH END	375	PVC	94.2	60,315	804
STP1619	BALACLAVA STREET	EDWARD STREET	HAMMOND STREET	575	VC	39.53	37,366	498
STP1741	CHURCHILL CRESCENT	MEEHAN STREET	DUNKIRK DRIVE	525	VC	73.67	67,435	899
STP2413	INKERMAN STREET	EDWARD STREET	HIGHWAY #3 BYPASS	375	PVC	10	6,403	85
STP120	ELM STREET	FIRST AVENUE	HOLLAND AVENUE	375	VC	81.99	52,497	700
STP881	TAYLOR CRESCENT	ELM STREET	WEST END	525	CO	28.65	26,225	350
STP2531	SOUTHDALE LINE	BENJAMIN PARKWAY	STYLES DRIVE	450	CO	20.3	14,333	191
STP2246	ROSS STREET	TALBOT STREET	CENTRE STREET	525	CO	50.3	46,043	614
STP461	FAIRVIEW AVENUE	STEELE STREET	WELLINGTON STREET	2100	CO	174.65	888,343	11,845
STP2622	CHARTER CREEK COURT	PEACH TREE BOULEVARD	END	375	PVC	74.6	47,765	637
STP2189	BRIDLE PATH	PEACH TREE BOULEVARD	END	300	PVC	97.1	59,849	798
STP2502	PEAR TREE AVENUE	AMBROSIA PATH	RENAISSANCE DRIVE	975	PVC	46.9	86,402	1,152
STP1294	ROSEMOUNT CRESCENT	LOCKE AVENUE	LOCKE AVENUE	450	CO	73.15	51,649	689
STP2056	MARY STREET EAST	FIRST AVENUE	PARK AVENUE	675	CO	19	19,948	266
STP1	ALDBOROUGH AVENUE	MASSEY DRIVE	LEGER AVENUE	1375	CO	74.68	187,821	2,504
STP1332	SOUTH EDGEWARE ROAD	DALEWOOD DRIVE	WOODWORTH AVENUE	375	CO	73.6	47,125	628
STP1509	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	300	PVC	79.4	48,940	653
STP2479	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	525	CO	108.7	99,500	1,327
STP2479	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	3.37	CO	108.7	66,999	893
STP2124	SOUTHGATE PARKWAY	PENHALE AVENUE	BLAIRMONT TERRACE	975	CO	38.2	70,375	938
STP731	TALBOT STREET	WILLIAM STREET	QUEEN STREET	975	CO	105	193,438	2,579
STP2153	ELGIN STREET	WELLINGTON STREET	GLADSTONE AVENUE	900	CO	85.7	142,508	1,900
STP1372	MONDAMIN STREET	CURTIS STREET	SCOTT STREET	375	VC	18.29	11,711	156
STP934	HIGHVIEW DRIVE	FANJOY DRIVE	HIGHVIEW DRIVE	750	PVC	66.5	85,726	1,143
STP7	RAVEN AVENUE	FAIRVIEW AVENUE	DAVID DRIVE	1050	CO	90.83	178,196	2,376
STP2160	PEACH TREE BOULEVARD	RAVEN AVENUE	RUSSET LANE	600	CO	77.3	73,069	974
STP594	KAINS STREET	HUGHES STREET	MANITOBA STREET	1200	CO	92.96	193,493	2,580
STP403	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	450	CO	70.4	49,707	663
STP44	GLANWORTH AVENUE	ASHTON PLACE	THOMPSON AVENUE	375	VC	80	51,223	683
STP1519	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	1500	CO	87.5	220,064	2,934

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2418	BENJAMIN PARKWAY	SOUTHDALE LINE	MILLSTONE AVENUE	450	CO	8.2	5,790	77
STP1848	PARKSIDE DRIVE	BELL AVENUE	SOUTH END	600	CO	91.44	86,435	1,152
STP1393	SILVER STREET	BURWELL ROAD	END	1200	CO	87.47	182,066	2,428
STP882	TAYLOR CRESCENT	ELM STREET	WEST END	375	CO	43.89	28,102	375
STP1948	WARBLER HEIGHTS	HUMMINGBIRD LANE	END	250	PVC	26.5	16,334	218
STP1056	WOODWORTH AVENUE	EDWARD STREET	REDAN STREET	600	VC	81.99	77,502	1,033
STP2394	CHURCHILL CRESCENT	DIEPPE DRIVE	DIEPPE DRIVE	450	PVC	86.1	60,792	811
STP1380	REDAN STREET	MILLER STREET	INKERMAN STREET	525	CO	9.45	8,650	115
STP1009	HARRINGTON CRESCENT	SAUVE AVENUE	SAUVE AVENUE	300	PVC	10.8	6,657	89
STP2615	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	300	PVC	87.1	53,686	716
STP1907	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	300	CO	38.1	23,484	313
STP58	DUNWICH DRIVE	HOWARD PLACE	AIREY AVENUE	375	CO	15.54	9,950	133
STP491	STEELE STREET	PARK AVENUE	FAIRVIEW AVENUE	2100	CO	18.9	96,133	1,282
STP491	FAIRVIEW AVENUE	STEELE STREET	WELLINGTON STREET	2100	CO	18.9	96,133	1,282
STP745	SUNSET DRIVE	WILSON AVENUE	SHAW VALLEY DRIVE	575	VC	184.37	174,279	2,324
STP939	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	675	CO	122	128,090	1,708
STP24	FAIRVIEW AVENUE	AIREY AVENUE	RAVEN AVENUE	825	CO	90.53	128,885	1,718
STP24	CALDWELL STREET	FAIRVIEW AVENUE	DYER STREET	825	CO	90.53	128,885	1,718
STP1623	FIRST AVENUE	STEELE STREET	MARY STREET EAST	2075	VC	56.15	285,602	3,808
STP1082	ARTHUR AVENUE	REDAN STREET	NORTH END	450	CO	93	65,664	876
STP649	DONKER DRIVE	END	WRIGHT CRESCENT	600	CO	74.7	70,611	941
STP988	LAKE MARGARET TRAIL	BLUE HERON PLACE	BEECHWOOD CIRCLE	825	CO	62.4	88,837	1,184
STP35	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	750	CO	102.41	132,018	1,760
STP1514	MARY BUCKE STREET	TREVITHICK TERRACE	PARK AVENUE	375	PVC	52.3	33,487	446
STP452	YARMOUTH ROAD	NORTH END	MICHIGAN BOULEVARD	750	CO	105.87	136,479	1,820
STP1350	MANOR ROAD	TALBOT STREET	GOLDING PLACE	675	CO	39.9	41,892	559
STP1192	COSMA COURT	GAYLORD ROAD	EAST END	600	CO	147.78	139,692	1,863
STP1192	TALBOT STREET	YARMOUTH ROAD	CASO BRIDGE	600	CO	147.78	139,692	1,863
STP958	CONFEDERATION DRIVE	LAKEVIEW CIRCLE	WARREN CRESCENT	450	CO	61.87	43,684	582
STP1518	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	975	CO	70.5	129,880	1,732
STP1850	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	1050	CO	100	196,187	2,616
STP446	WELLINGTON STREET	SECOND AVENUE	FIRST AVENUE	3000	CO	18.19	175,464	2,340
STP72	ALDBOROUGH AVENUE	SPARTA STREET	PULLEN AVENUE	525	CO	32	29,292	391
STP2228	TURNBERRY COURT	OAKMONT STREET	END	300	CO	26.8	16,519	220
STP2406	BURWELL ROAD	HARWILL ROAD	EDWARD STREET	750	CO	100.4	129,427	1,726
STP503	SMITH AVENUE	FOREST AVENUE	MYRTLE STREET	450	VC	93.68	66,144	882
STP1021	BURWELL ROAD	BROOKSIDE DRIVE	RIVERBANK DRIVE	1350	CO	62.8	146,677	1,956
STP775	EASEMENT	AVON ROAD	BURWELL ROAD	1500	CO	112.32	282,487	3,766
STP1165	LOCUST STREET	FIFTH AVENUE	FOURTH AVENUE	450	VC	90.6	63,970	853
STP5	LEGER AVENUE	MCGIBBON AVENUE	FAIRVIEW AVENUE	1200	CO	127.71	265,824	3,544
STP2353	PEACH TREE BOULEVARD	CAROLINA CRESCENT	FOX HOLLOW COURT	825	CO	46.7	66,485	886
STP2353	PEACH TREE BOULEVARD	CAROLINA CRESCENT	FOX HOLLOW COURT	825	CO	46.7	66,485	886
STP833	MARY STREET EAST	FIRST AVENUE	PARK AVENUE	900	CO	126.42	210,220	2,803
STP1450	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	825	CO	109	155,180	2,069
STP489	FOURTH AVENUE	WELLINGTON STREET	ERIE STREET	1350	CO	103	240,569	3,208
STP1744	FIRST AVENUE	CHESTNUT STREET	BRANT AVENUE	300	VC	69.1	42,591	568
STP2113	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	375	PVC	71.6	45,845	611
STP418	RODNEY CRESCENT	ROSETHORN COURT	WELLINGTON STREET	300	PVC	96	59,171	789

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2606	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	300	CO	106.7	65,766	877
STP2606	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	300	CO	106.7	65,766	877
STP227	MANDEVILLE ROAD	PARKVIEW DRIVE	HEPBURN AVENUE	375	VC	4.42	2,830	38
STP481	ERIE STREET	SECOND AVENUE	FIRST AVENUE	675	CO	73.46	77,127	1,028
STP11	RAVEN AVENUE	LAWRENCE AVENUE	PORTER PLACE	1050	CO	92.35	181,178	2,416
STP2227	TURNBERRY COURT	OAKMONT STREET	END	300	CO	22	13,560	181
STP1593	KENSINGTON COURT	PENHALE AVENUE	CUL-DE-SAC	375	PVC	92.5	59,227	790
STP567	SCOTT STREET	HAMILTON STREET	MARY STREET	900	VC	76.81	127,725	1,703
STP567	SCOTT STREET	HIAWATHA STREET	HAMILTON STREET	900	VC	76.81	127,725	1,703
STP2524	OXFORD TERRACE	RENAISSANCE DRIVE	AUBURN DRIVE	1500	CO	100	251,502	3,353
STP2524	OXFORD TERRACE	RENAISSANCE DRIVE	AUBURN DRIVE	3.67	CO	100	61,637	822
STP2468	FOX HOLLOW COURT	PEACH TREE BOULEVARD	END	2.34	PVC	90.5	55,781	744
STP2468	FOX HOLLOW COURT	PEACH TREE BOULEVARD	END	375	PVC	90.5	57,946	773
STP2504	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	375	PVC	93.8	60,059	801
STP1853	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	1050	CO	94.3	185,004	2,467
STP1721	CIRCLEWOOD DRIVE	PINE VALLEY DRIVE	63 CIRCLEWOOD DRIVE	600	CO	55.3	52,273	697
STP557	HIAWATHA STREET	TALBOT STREET	CURTIS STREET	975	VC	84.73	156,095	2,081
STP767	BURWELL ROAD	BENNETT PLACE	SOUTH EDGEWARE ROAD	750	CO	56.08	72,294	964
STP1148	VICTORIA STREET	MARGARET STREET	ISABEL STREET	300	VC	96.8	59,664	796
STP1770	FIRST AVENUE	HIGHWAY #3 BYPASS	EDWARD STREET	375	CO	76.2	48,790	651
STP681	MCGREGOR COURT	AVON ROAD	BURWELL ROAD	525	PVC	37	33,869	452
STP1318	BALACLAVA STREET	MALAKOFF STREET	REDAN STREET	825	CO	35.66	50,768	677
STP911	MANOR ROAD	HIGHVIEW DRIVE	ELM STREET	375	CO	28.96	18,543	247
STP1248	WINDEMERE PLACE	HIGHVIEW DRIVE	END	825	CO	104.8	149,200	1,989
STP1089	STANLEY STREET	TALBOT STREET	TALBOT ROAD	600	CO	28.5	26,940	359
STP1491	THIRD AVENUE	WELLINGTON STREET	NORTH END	600	PVC	83	78,457	1,046
STP660	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	250	PVC	44.1	27,182	362
STP1301	ERIE STREET	ROSS STREET	SMITH AVENUE	575	VC	28.51	26,950	359
STP1927	PADDON STREET	HIGHVIEW DRIVE	POL COURT	250	CO	36.271	22,356	298
STP2632	VERNA STREET	JONAS STREET	BARNES STREET	300	PVC	48.3	29,771	397
STP161	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	300	PVC	43.1	26,565	354
STP469	STEELE STREET	PARK AVENUE	FAIRVIEW AVENUE	1800	VC	285.29	1,109,897	14,799
STP1278	TALBOT STREET	METCALFE STREET	PEARL STREET	525	CO	27.7	25,356	338
STP2634	WHITE STREET	ELIZABETH STREET	MITCHELL STREET	300	PVC	44.9	27,675	369
STP1900	LAWRENCE AVENUE	CHANT STREET	CALDWELL STREET	575	VC	46.43	43,889	585
STP1522	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	825	CO	96.3	137,099	1,828
STP299	MANOR ROAD	WEST END	RICE ROAD	900	CO	13.42	22,316	298
STP2628	JONAS STREET	VERNA STREET	EAST END	300	PVC	42.5	26,196	349
STP926	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	450	CO	96.7	68,277	910
STP2555	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	300	PVC	7.7	4,746	63
STP1712	MANOR ROAD	CHESTNUT STREET	IDSARDI AVENUE	450	CO	82.75	58,427	779
STP2289	ALEXANDRIA AVENUE	TALBOT STREET	MALAKOFF STREET	450	CO	18	12,709	169
STP776	EASEMENT	AVON ROAD	BURWELL ROAD	1650	CO	59.13	198,217	2,643
STP1064	REDAN STREET	MILLER STREET	INKERMAN STREET	1050	CO	58.83	115,417	1,539
STP1176	CHESTER STREET	WILLOW STREET	HENRY STREET	375	VC	85.29	54,610	728
STP2542	SUGAR BUSH PATH	STYLES DRIVE	END	375	PVC	82.1	52,568	701
STP1966	MAJESTIC COURT	LAWRENCE AVENUE	END	525	CO	90.7	83,024	1,107
STP603	FLORA STREET	TALBOT STREET	KAINS STREET	1350	CO	88.39	206,445	2,753

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP640	LOCKE AVENUE	ROSEMOUNT CRESCENT	PINEHURST PLACE	450	CO	51.82	36,588	488
STP1010	HARRINGTON CRESCENT	SAUVE AVENUE	SAUVE AVENUE	300	PVC	30.8	18,984	253
STP1765	FIRST AVENUE	HIGHWAY #3 BYPASS	EDWARD STREET	525	CO	65.84	60,268	804
STP1861	HIGH STREET	CHESTNUT STREET	PHILIP STREET	250	CO	36	22,189	296
STP132	POL COURT	HIGHVIEW DRIVE	PADDON STREET	525	CO	54.41	49,805	664
STP334	STEEPLECHASE COURT	HIGHVIEW DRIVE	BODKIN STREET	450	CO	83.5	58,957	786
STP624	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	300	CO	88.7	54,672	729
STP960	MCGREGOR COURT	END	AVON ROAD	450	PVC	53	37,422	499
STP515	WILSON AVENUE	ADA STREET	ELM STREET	750	CO	99.3	128,009	1,707
STP1543	EASEMENT	DONKER DRIVE	SWM11	600	CO	17	16,070	214
STP951	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	675	CO	13.7	14,384	192
STP361	RIPLEY LANE	HIGHVIEW DRIVE	SINCLAIR AVENUE	450	CO	90.4	63,828	851
STP1123	MITCHELL STREET	SOUTHWICK STREET	WHITE STREET	375	VC	95.58	61,199	816
STP1213	ROSS STREET	WELLINGTON STREET	ERIE STREET	825	CO	48.9	69,617	928
STP2528	AUBURN DRIVE	RENAISSANCE DRIVE	OXFORD TERRACE	300	PVC	71.1	43,824	584
STP1511	MARY BUCKE STREET	TREVITHICK TERRACE	EAST END	450	PVC	19.4	13,698	183
STP1444	FAITH BOULEVARD	HAGERMAN CRESCENT	SOUTHGATE PARKWAY	675	CO	90	94,493	1,260
STP861	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	300	CO	56.85	35,040	467
STP1415	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDALE LINE	450	CO	41.5	29,302	391
STP2335	STANLEY STREET	FARLEY PLACE	SUNSET DRIVE	600	CO	49.9	47,169	629
STP1742	MAPLE STREET	FIFTH AVENUE	FOURTH AVENUE	450	PVC	3.04	2,146	29
STP2566	MYRTLE STREET	FOURTH AVENUE	THIRD AVENUE	375	PVC	68.7	43,988	587
STP122	ELM STREET	CHANT STREET	MANOR ROAD	1200	CO	95.4	198,572	2,648
STP2414	BENJAMIN PARKWAY	BIRCHALL LANE	FOXTAIL LANE	1650	CO	85.2	285,609	3,808
STP1394	SILVER STREET	BURWELL ROAD	END	1200	CO	88.32	183,835	2,451
STP1649	LAKE MARGARET TRAIL	AXFORD PARKWAY	OSPREY LANE	675	CO	56.8	59,635	795
STP1780	BEVERLEY STREET	MONDAMIN STREET	ST. CATHARINE STREET	250	PVC	44.8	27,613	368
STP2331	STANLEY STREET	DRAKE STREET	MARGARET STREET	600	CO	107.1	101,238	1,350
STP2611	REDHAVEN LANE	AUBURN DRIVE	END	300	PVC	38.8	23,915	319
STP847	ELIZABETH STREET	HINCKS STREET	SOUTHWICK STREET	600	VC	139.14	131,524	1,754
ST02214	PEACH TREE BOULEVARD	RUSSET LANE	EMPIRE PARKWAY	300	PVC	33.6	20,710	276
STP866	FAIRVIEW AVENUE	ELM STREET	ALDBOROUGH AVENUE	450	CO	79.7	56,274	750
STP1718	PINE VALLEY DRIVE	SUTHERLAND COURT	TAMARACK COURT	675	CO	105	110,241	1,470
STP2642	CENTRE STREET	HINCKS STREET	SOUTHWICK STREET	100	PVC	27.2	16,765	224
STP486	ERIE STREET	FIRST AVENUE	TALEQUAH STREET	600	CO	91.44	86,435	1,152
STP618	LAURIER ROAD	LOCKE AVENUE	CONFEDERATION DRIVE	300	CO	80.77	49,784	664
STP2118	CARDINAL COURT	AMBLESIDE DRIVE	END	300	PVC	29.5	18,183	242
STP2186	CHURCHILL CRESCENT	BRANT AVENUE	SIMCOE STREET	375	PVC	71	45,460	606
STP210	RIVERBANK DRIVE	BURWELL ROAD	GOLDENROD COURT	900	CO	88.8	147,663	1,969
STP407	HIGHVIEW DRIVE	RICKWOOD PLACE	RICKWOOD PLACE	250	PVC	47.5	29,277	390
STP2062	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	450	CO	77.6	54,791	731
STP2046	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	675	CO	60	62,995	840
STP641	LOCKE AVENUE	ROSEMOUNT CRESCENT	PINEHURST PLACE	375	CO	40.54	25,957	346
STP1588	PENHALE AVENUE	KENSINGTON COURT	CHAMBERLAIN COURT	750	CO	102.1	131,619	1,755
STP978	MANOR ROAD	RICE ROAD	WELLINGTON STREET	300	PVC	53.7	33,099	441
STP2192	DEERFIELD COURT	PINE VALLEY DRIVE	END	450	CO	26.7	18,852	251
STP2154	WELLINGTON STREET	ELGIN STREET	HINCKS STREET	750	CO	52.5	67,679	902
STP1540	HUMMINGBIRD LANE	OSPREY LANE	WARBLER HEIGHTS	600	CO	91.7	86,681	1,156

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP229	GLIDDON AVENUE	HEPBURN AVENUE	WOOD STREET	525	VC	14.33	13,117	175
STP2365	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	450	CO	63.4	44,765	597
STP442	WELLINGTON STREET	SECOND AVENUE	FIRST AVENUE	900	CO	16.9	28,102	375
STP1569	HAVENRIDGE COURT	GREENWAY BOULEVARD	16 HAVENRIDGE COURT	750	CO	54.4	70,128	935
STP2133	BLAIRMONT TERRACE	SOUTHGATE PARKWAY	BEND	525	CO	93.9	85,953	1,146
STP1955	OSPREY LANE	HUMMINGBIRD LANE	CUL-DE-SAC	375	PVC	34.3	21,962	293
STP37	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	600	CO	88.09	83,269	1,110
STP1580	PENHALE AVENUE	SOUTHGATE PARKWAY	FENWICK COURT	1050	CO	103.2	202,465	2,700
STP2277	MANOR ROAD	HIGHVIEW DRIVE	WELLINGTON STREET	300	PVC	50.9	31,373	418
STP419	RODNEY CRESCENT	ROSETHORN COURT	WELLINGTON STREET	450	PVC	91	64,252	857
STP1475	EASEMENT	BENNETT PLACE	BURWELL ROAD	300	PVC	60	36,982	493
STP2550	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	525	CO	69.8	63,893	852
STP365	HIGHVIEW DRIVE	PALMER COURT	MANOR ROAD	1050	CO	75.2	147,532	1,967
STP2498	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	525	CO	100.2	91,720	1,223
STP115	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	1350	CO	99.91	233,352	3,111
STP511	WILSON AVENUE	ELM STREET	GLENBANNER STREET	600	CO	87.05	82,286	1,097
STP1290	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	375	VC	25	16,007	213
STP1406	WELLINGTON STREET	PRINCESS AVENUE	MOORE STREET	375	CO	56	35,856	478
STP625	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	525	CO	76.5	70,026	934
STP1769	FIRST AVENUE	HIGHWAY #3 BYPASS	EDWARD STREET	300	CO	76.2	46,967	626
STP505	ELMINA STREET	CEDAR STREET	PINE STREET	575	VC	83	78,457	1,046
STP505	ELMINA STREET	PINE STREET	ELM STREET	575	VC	83	78,457	1,046
STP83	ALDBOROUGH AVENUE	PULLEN AVENUE	HOLLAND AVENUE	750	VC	103.9	133,939	1,786
STP1014	AXFORD PARKWAY	SAUVE AVENUE	WARBLER HEIGHTS	375	PVC	67.69	43,341	578
STP1233	FIRST AVENUE	HIGHWAY #3 BYPASS	EDWARD STREET	575	VC	24.76	23,405	312
STP252	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	375	PVC	90.4	57,882	772
STP1690	PEAR TREE AVENUE	PEACH TREE BOULEVARD	HONEY BEND	600	CO	106.9	101,049	1,347
STP2596	ELM STREET	HEPBURN AVENUE	MEEHAN STREET	450	PVC	52.5	37,069	494
STP2215	PEACH TREE BOULEVARD	RUSSET LANE	EMPIRE PARKWAY	300	PVC	41.2	25,394	339
STP1830	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	450	PVC	18.9	13,345	178
STP2624	CHARTER CREEK COURT	PEACH TREE BOULEVARD	END	300	PVC	69.1	42,591	568
STP691	PRINCESS AVENUE	CENTRE STREET	ELIZABETH STREET	300	VC	90.53	55,800	744
STP1903	LAWRENCE AVENUE	CALDWELL STREET	RAVEN AVENUE	450	VC	33.473	23,634	315
STP386	PALMER COURT	HIGHVIEW DRIVE	END	375	CO	79.9	51,159	682
STP2148	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	600	CO	57	53,880	718
STP2120	CIDER MILL LANE	PEACH TREE BOULEVARD	END	375	PVC	60.3	38,609	515
STP144	HIGHVIEW DRIVE	MANOR ROAD	NEAL AVENUE	825	CO	39.93	56,847	758
STP2495	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	525	CO	13.4	12,266	164
STP1292	CONFEDERATION DRIVE	AVON ROAD	STIRLING CRESCENT	450	CO	74.68	52,729	703
STP672	BURWELL ROAD	PONSFORD PLACE	THORMAN TERRACE	975	CO	123.9	228,257	3,043
STP952	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	750	CO	84.5	108,930	1,452
STP1575	GREENWAY BOULEVARD	PINE VALLEY DRIVE	END	200	PVC	48.3	29,771	397
STP997	GALBRAITH COURT	SAUVE AVENUE	WEST END	450	PVC	116.8	82,469	1,100
STP1036	AMBERWOOD COURT	COTTONWOOD DRIVE	END	300	PVC	24.6	15,163	202
STP69	ALDBOROUGH AVENUE	PULLEN AVENUE	HOLLAND AVENUE	750	CO	41.15	53,047	707
STP1612	COLEMAN COURT	BARRETT CRESCENT	END	450	CO	84.6	59,733	796
STP1965	PULLEN AVENUE	FRANCES STREET SOUTH	ALDBOROUGH AVENUE	575	VC	35.631	33,681	449
STP2131	BLAIRMONT TERRACE	SOUTHGATE PARKWAY	BEND	375	PVC	73.7	47,189	629

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2131	BLAIRMONT TERRACE	SOUTHGATE PARKWAY	BEND	375	PVC	73.7	47,189	629
STP2042	WELLINGTON STREET	PARK AVENUE	HUNTINGTON TERRACE	525	CO	60	54,922	732
STP2503	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	375	PVC	26	16,647	222
STP360	HIGHVIEW DRIVE	RICKWOOD PLACE	RICKWOOD PLACE	1350	CO	101	235,897	3,145
STP360	HIGHVIEW DRIVE	WELLINGTON STREET	RICKWOOD PLACE	1350	CO	101	235,897	3,145
STP1652	LAKE MARGARET TRAIL	AXFORD PARKWAY	OSPREY LANE	600	CO	95.3	90,084	1,201
STP2047	WELLINGTON STREET	FIRST AVENUE	TALEQUAH STREET	250	PVC	55.62	34,282	457
STP2114	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	375	PVC	11.5	7,363	98
STP1589	PENHALE AVENUE	CHAMBERLAIN COURT	SOUTHDALE LINE	375	PVC	44.6	28,557	381
STP1309	BALACLAVA STREET	HAMMOND STREET	SOUTH EDGEWARE ROAD	750	CO	21.2	27,329	364
STP2008	WESTLAKE DRIVE	AMBLESIDE DRIVE	AMBLESIDE DRIVE	675	CO	90.8	95,332	1,271
STP1353	JACKSON STREET	JESSIE STREET	NORTH END	300	VC	30.45	18,768	250
STP560	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	1200	VC	12.19	25,373	338
STP2447	CENTRE STREET	MOORE STREET	ROSS STREET	250	PVC	10.5	6,472	86
STP183	PARK AVENUE	CHESTNUT STREET	MARY BUCKE STREET	900	VC	104.55	173,853	2,318
STP2121	CIDER MILL LANE	PEACH TREE BOULEVARD	END	450	PVC	79.2	55,921	746
STP1731	SUNSET DRIVE	BUSH LINE	CHESTER STREET	450	VC	37	26,124	348
STP390	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	375	CO	37.2	23,819	318
STP390	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	375	CO	37.2	23,819	318
STP2319	WOLFE STREET	FLORA STREET	HUGHES STREET	450	PVC	11	7,767	104
STP116	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	1350	CO	25.62	59,839	798
STP2020	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	600	CO	52.3	49,437	659
STP1289	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	375	VC	63.02	40,351	538
STP900	CROATIA COURT	HIGHVIEW DRIVE	EAST END	300	CO	47.85	29,493	393
STP2343	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	375	PVC	67.5	43,219	576
STP125	VANBUSKIRK DRIVE	MCCULLY DRIVE	PAULSON COURT	525	CO	98.94	90,566	1,208
STP241	CHURCHILL CRESCENT	MEEHAN STREET	DUNKIRK DRIVE	975	CO	39.93	73,562	981
STP2506	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	300	PVC	12.7	7,828	104
STP2382	EASEMENT	22 DORAL COURT	DORAL COURT	450	CO	22.4	15,816	211
STP2362	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	375	PVC	104.5	66,910	892
STP2351	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	375	PVC	114.9	73,569	981
STP1093	CENTRE STREET	WILLIAM STREET	QUEEN STREET	300	VC	96.57	59,523	794
STP1873	MANOR ROAD	IDSARDI AVENUE	ERINLEA DRIVE	300	CO	46.939	28,932	386
STP599	MANITOBA STREET	TALBOT STREET	CELESTINE STREET	525	CO	73.6	67,371	898
STP2279	COULTER AVENUE	WELLINGTON STREET	BODKIN STREET	525	CO	69.2	63,343	845
STP1824	SOUTH EDGEWARE ROAD	HARPER ROAD	HIGHBURY AVENUE	300	PVC	85.9	52,946	706
STP1824	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	HARPER ROAD	300	PVC	85.9	52,946	706
STP2271	ERIE STREET	ROSS STREET	SMITH AVENUE	600	CO	50	47,263	630
STP465	STEELE STREET	FIRST AVENUE	PARK AVENUE	1575	VC	313.94	1,052,395	14,032
STP2482	VALDERRAMA LANE	OLD COURSE ROAD	ROYAL DORNOCH DRIVE	0.49	PVC	85.5	52,699	703
STP2482	VALDERRAMA LANE	OLD COURSE ROAD	ROYAL DORNOCH DRIVE	375	PVC	85.5	54,745	730
STP415	SIFTON DRIVE	HIGHVIEW DRIVE	LYFORD COURT	675	CO	45.2	47,456	633
STP1267	WEST AVENUE	CHESTER STREET	ADA STREET	300	VC	98.2	60,527	807
STP2388	GLENWOOD AVENUE	OAKMONT STREET	TYANDAGA STREET	450	CO	98.6	69,618	928
STP909	HIGHVIEW DRIVE	MANOR ROAD	VANBUSKIRK DRIVE	900	CO	31.39	52,197	696
STP2060	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	600	CO	35.9	33,935	452
STP963	DONKER DRIVE	WRIGHT CRESCENT	BURWELL ROAD	300	PVC	88.3	54,425	726
STP1471	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	300	PVC	25.02	15,422	206

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2187	MOORE STREET	TALBOT STREET	CENTRE STREET	300	PVC	57.4	35,379	472
STP2145	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	525	CO	74.7	68,378	912
STP1613	BARRETT CRESCENT	SOUTHGATE PARKWAY	COLEMAN COURT	450	CO	84.6	59,733	796
STP894	TREVITHICK TERRACE	CAVANAUGH DRIVE	CHESTNUT STREET	450	CO	102.6	72,442	966
STP904	VANBUSKIRK DRIVE	GUSTIN PLACE	HIGHVIEW DRIVE	1050	CO	90.22	177,000	2,360
STP2352	PEACH TREE BOULEVARD	CAROLINA CRESCENT	FOX HOLLOW COURT	825	CO	40.3	57,374	765
STP2037	MANITOBA STREET	KAINS STREET	EDWARD STREET	600	CO	8	7,562	101
STP1658	MOURNING DOVE LANE	HUMMINGBIRD LANE	SANDPIPER PLACE	600	CO	58.3	55,109	735
STP1665	RHONDA COURT	ELM STREET	NORTH END	450	CO	88.39	62,409	832
STP2568	MYRTLE STREET	THIRD AVENUE	EAST OF THIRD AVENUE	250	PVC	20	12,327	164
STP1163	LOCUST STREET	ROSS STREET	FIFTH AVENUE	375	VC	76.2	48,790	651
STP1433	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	525	CO	91.8	84,031	1,120
STP1871	COSTELLO COURT	ST. JOSEPH STREET	SOUTH END	250	PVC	30	18,491	247
STP1453	ORIOLE LANE	HICKORY LANE	CUL-DE-SAC	300	PVC	25.1	15,471	206
STP645	PINEHURST PLACE	LOCKE AVENUE	END	750	CO	60.05	77,411	1,032
STP976	HIGHVIEW DRIVE	VANBUSKIRK DRIVE	VANBUSKIRK DRIVE	600	CO	51.21	48,407	645
STP913	MANOR ROAD	HIGHVIEW DRIVE	ELM STREET	525	CO	73.15	66,959	893
STP1668	HEDGES COURT	WELLINGTON STREET	END	525	CO	89.44	81,870	1,092
STP1782	BEVERLEY STREET	MONDAMIN STREET	ST. CATHARINE STREET	375	PVC	6.8	4,354	58
STP2387	GLENWOOD AVENUE	OAKMONT STREET	END	300	CO	49.7	30,633	408
STP2232	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	300	CO	43.3	26,689	356
STP128	PAULSON COURT	VANBUSKIRK DRIVE	WEST END	1200	CO	154.2	320,962	4,279
STP2644	STANLEY STREET	WALNUT STREET	ST. ANNE'S PLACE	450	PVC	66.4	46,883	625
STP1423	HICKORY LANE	LAKE MARGARET TRAIL	ORIOLE LANE	900	CO	36.9	61,360	818
STP2556	WILLIAM STREET	TALBOT STREET	CENTRE STREET	300	PVC	7	4,315	58
STP2011	EASEMENT	TAMARACK COURT	AMBLESIDE DRIVE	300	PVC	29.1	17,936	239
STP1190	YARMOUTH ROAD	MICHIGAN BOULEVARD	TALBOT STREET	750	CO	72.85	93,912	1,252
STP177	PARK AVENUE	MARY BUCKE STREET	KOPIC COURT	450	VC	56.69	40,027	534
STP1313	INKERMAN STREET	PATRICIA STREET	JOHNSON PLACE	600	CO	8.53	8,063	108
STP2072	CHESTNUT STREET	FIFTH AVENUE	THIRD AVENUE	600	CO	16.26	15,370	205
STP1821	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	HARPER ROAD	375	PVC	17	10,885	145
STP1757	FIRST AVENUE	STEELE STREET	MARY STREET EAST	900	CO	33.63	55,922	746
STP1227	FIRST AVENUE	REDAN STREET	TALBOT STREET	300	VC	63.4	39,078	521
STP196	HIGHVIEW DRIVE	CHESTNUT STREET	FOREST AVENUE	300	CO	14.48	8,925	119
STP319	FOREST AVENUE	SECOND AVENUE	FIRST AVENUE	900	CO	27.43	45,612	608
STP2027	LAKE MARGARET TRAIL	OSPREY LANE	HUMMINGBIRD LANE	450	CO	21.7	15,322	204
STP1020	BURWELL ROAD	BROOKSIDE DRIVE	RIVERBANK DRIVE	825	CO	60.3	85,847	1,145
STP2157	WELLINGTON STREET	SOUTHWICK STREET	PRINCESS AVENUE	675	CO	94.2	98,902	1,319
STP1895	APPLEWOOD CRESCENT	CHANT STREET	CHANT STREET	600	VC	54.347	51,372	685
STP56	DUNWICH DRIVE	HOWARD PLACE	AIREY AVENUE	375	CO	19.45	12,454	166
STP1493	THIRD AVENUE	WELLINGTON STREET	NORTH END	525	PVC	11.5	10,527	140
STP1493	THIRD AVENUE	WELLINGTON STREET	NORTH END	525	PVC	11.5	10,527	140
STP1334	SOUTH EDGEWARE ROAD	WOODWORTH AVENUE	LOCKE AVENUE	450	CO	94.3	66,582	888
STP2076	CHESTNUT STREET	ROSS STREET	FIFTH AVENUE	600	CO	84.5	79,875	1,065
STP2534	STYLES DRIVE	SOUTHDALE LINE	WEIR CRESCENT	375	PVC	32.5	20,809	277
STP2337	STANLEY STREET	FARLEY PLACE	SUNSET DRIVE	600	CO	90	85,074	1,134
STP1473	BENNETT PLACE	BURWELL ROAD	WEST END	600	CO	70	66,169	882
STP932	HIGHVIEW DRIVE	NEAL AVENUE	FANJOY DRIVE	375	PVC	67.3	43,091	575

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1210	ROSS STREET	MCINTYRE STREET	FOREST AVENUE	450	VC	157.26	111,036	1,480
STP2117	AMBLESIDE DRIVE	CARDINAL COURT	WESTLAKE DRIVE	675	CO	63.7	66,880	892
STP1041	GOLDENROD COURT	COTTONWOOD DRIVE	END	375	PVC	85	54,424	726
STP2147	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	600	CO	81.9	77,417	1,032
STP1370	MONDAMIN STREET	CURTIS STREET	SCOTT STREET	200	VC	6.88	4,241	57
STP2168	PRINCESS AVENUE	WELLINGTON STREET	GLADSTONE AVENUE	450	CO	108.5	76,608	1,021
STP1826	SOUTH EDGEWARE ROAD	HIGHBURY AVENUE	CENTENNIAL AVENUE	600	CO	104.1	98,402	1,312
STP739	JESSIE STREET	JACKSON STREET	HAMILTON STREET	375	VC	45.11	28,883	385
STP110	CHANT STREET	ELM STREET	APPLEWOOD CRESCENT	1050	CO	71.93	141,117	1,882
STP264	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	1500	CO	21.64	54,425	726
STP1070	INKERMAN STREET	REDAN STREET	NOLAN STREET	575	VC	44.99	42,528	567
STP344	RICE ROAD	WELLINGTON STREET	HITCH CRESCENT	450	CO	30.3	21,394	285
STP2578	ELM STREET	WILSON AVENUE	PARKSIDE DRIVE	300	PVC	90	55,473	740
STP263	STOKES ROAD	BONNIE PLACE	BONNIE PLACE	1500	CO	43.34	109,001	1,453
STP2367	ARBOR TRAIL	CAROLINA CRESCENT	END	300	PVC	70.8	43,639	582
STP675	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	1200	CO	15	31,222	416
STP253	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	375	CO	19.5	12,486	166
STP1108	ERMATINGER STREET	MONTGOMERY ROAD	CHURCHILL CRESCENT	300	VC	48.77	30,060	401
STP852	BUTLER DRIVE	LAWRENCE AVENUE	LAWRENCE AVENUE	525	CO	87.17	79,793	1,064
STP722	MOORE STREET	AMELIA STREET	WELLINGTON STREET	450	CO	22.3	15,745	210
STP871	ELM STREET	LUTON CRESCENT	TAYLOR CRESCENT	575	CO	23.81	22,507	300
STP1714	PINE VALLEY DRIVE	ARROWWOOD LANE	WESTLAKE DRIVE	900	CO	67.1	111,578	1,488
STP1204	AXFORD PARKWAY	FAIRVIEW AVENUE	MCGIBBON AVENUE	300	PVC	68.5	42,221	563
STP903	VANBUSKIRK DRIVE	PAULSON COURT	GUSTIN PLACE	1050	CO	103.72	203,485	2,713
STP903	PAULSON COURT	VANBUSKIRK DRIVE	WEST END	1050	CO	103.72	203,485	2,713
STP1980	PEACH TREE BOULEVARD	CIDER MILL LANE	MITCHELL HEPBURN PUBLIC SCHOOL	450	CO	95.3	67,288	897
STP2608	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	375	CO	68.5	43,860	585
STP1272	TALBOT STREET	ALMA STREET	BALACLAVA STREET	675	CO	67.9	71,289	951
STP488	ERIE STREET	TALEQUAH STREET	PARK AVENUE	575	CO	59.31	56,064	748
STP1466	MAPLE STREET	ROSS STREET	FIFTH AVENUE	450	CO	110	77,667	1,036
STP89	PULLEN AVENUE	FRANCES STREET SOUTH	ALDBOROUGH AVENUE	375	VC	48.1	30,798	411
STP380	SIFTON DRIVE	HIGHVIEW DRIVE	LYFORD COURT	675	CO	40.1	42,102	561
STP2618	RENAISSANCE DRIVE	AUBURN DRIVE	HARLEQUIN COURT	825	CO	20	28,473	380
STP1844	PROGRESS DRIVE	SOUTH EDGEWARE ROAD	HARPER ROAD	600	CO	25.91	24,492	327
STP352	HITCH CRESCENT	RICE ROAD	RICE ROAD	525	CO	39.4	36,065	481
STP2092	PEBBLE BEACH COURT	CARNOUSTIE COURT	END	375	CO	37	23,691	316
STP2393	CHURCHILL CRESCENT	DIEPPE DRIVE	FIFTH AVENUE	375	PVC	61.4	39,314	524
STP1662	SANDPIPER PLACE	MOURNING DOVE LANE	WEST END	300	PVC	17.9	11,033	147
STP543	TALBOT STREET	ELGIN STREET	HINCKS STREET	750	CO	102.41	132,018	1,760
STP2444	BENJAMIN PARKWAY	SOUTHDAL E LINE	MILLSTONE AVENUE	450	CO	72.6	51,260	683
STP1157	FOURTH AVENUE	MYRTLE STREET	LOCUST STREET	450	VC	57.91	40,888	545
STP1374	MONTGOMERY ROAD	WEST END	ERMATINGER STREET	375	PVC	33.53	21,469	286
STP1636	LAKE MARGARET TRAIL	OSPREY LANE	HUMMINGBIRD LANE	600	CO	28	26,467	353
STP74	ALDBOROUGH AVENUE	SPARTA STREET	SPARTA STREET	300	CO	46.02	28,365	378
STP1558	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	525	CO	71.6	65,540	874
STP165	PHILIP STREET	HIGH STREET	RYERSON PLACE	675	CO	29.41	30,878	412
STP369	HIGHVIEW DRIVE	PALMER COURT	MANOR ROAD	300	PVC	15	9,246	123

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2562	MYRTLE STREET	FIFTH AVENUE	FOURTH AVENUE	675	CO	76.6	80,424	1,072
STP279	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	300	PVC	24	14,793	197
STP2044	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	450	CO	60	42,364	565
STP1485	SOUTHGATE PARKWAY	HAGERMAN CRESCENT	PENHALE AVENUE	1500	CO	89.6	225,346	3,005
STP1421	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDALE LINE	250	PVC	47.6	29,339	391
STP816	INKERMAN STREET	REDAN STREET	NOLAN STREET	575	VC	48.16	45,524	607
STP2304	GLADSTONE AVENUE	HINCKS STREET	SOUTHWICK STREET	525	CO	7.1	6,499	87
STP1042	GOLDENROD COURT	RIVERBANK DRIVE	COTTONWOOD DRIVE	300	PVC	60	36,982	493
STP1880	HITCH CRESCENT	RICE ROAD	RICE ROAD	300	CO	47	28,969	386
STP1880	HITCH CRESCENT	RICE ROAD	RICE ROAD	300	CO	47	28,969	386
STP1138	TALBOT STREET	MANITOBA STREET	ALMA STREET	825	CO	51.9	73,888	985
STP728	WELLINGTON STREET	MOORE STREET	ROSS STREET	600	CO	64	60,497	807
STP312	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	675	CO	117.65	123,523	1,647
STP824	ALMA STREET	HIGHWAY #3 BYPASS	EDWARD STREET	575	VC	40.43	38,217	510
STP143	HIGHVIEW DRIVE	POL COURT	CROATIA COURT	375	VC	56.54	36,202	483
STP985	AXFORD PARKWAY	LAKE MARGARET TRAIL	WARBLER HEIGHTS	675	CO	108.8	114,231	1,523
STP2025	NOBLE LANE	SOUTH END	EAST END	300	PVC	70.5	43,454	579
STP1597	PRESPA COURT	ALDBOROUGH AVENUE	END	450	PVC	59.7	42,152	562
STP2075	FIFTH AVENUE	CHESTNUT STREET	MAPLE STREET	300	PVC	11.16	6,879	92
STP2322	CONNAUGHT STREET	STANLEY STREET	END	600	CO	86	81,293	1,084
STP507	FIFTH AVENUE	DUNKIRK DRIVE	CHURCHILL CRESCENT	575	VC	93.81	88,676	1,182
STP1615	BARRETT CRESCENT	COLEMAN COURT	SOUTHGATE PARKWAY	300	PVC	83.5	51,467	686
STP2638	HINCKS STREET	CENTRE STREET	ELIZABETH STREET	450	PVC	11.9	8,402	112
STP93	PULLEN AVENUE	FRANCES STREET SOUTH	ALDBOROUGH AVENUE	375	VC	33.58	21,501	287
STP732	TALBOT STREET	STANLEY STREET	WILLIAM STREET	1050	CO	99.1	194,421	2,592
STP1646	CRANBERRY COURT	RIVERBANK DRIVE	END	450	PVC	42	29,655	395
STP2245	CENTRE STREET	MILL STREET	ROSS STREET	450	PVC	21.5	15,180	202
STP257	STOKES ROAD	BONNIE PLACE	CHESTNUT STREET	1500	CO	41.39	104,097	1,388
STP1554	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	600	CO	64	60,497	807
STP1487	SOUTHGATE PARKWAY	PENHALE AVENUE	BLAIRMONT TERRACE	975	CO	110	202,649	2,702
STP2598	ELM STREET	MEEHAN STREET	WOOD STREET	600	CO	73.1	69,099	921
STP1598	PRESPA COURT	ALDBOROUGH AVENUE	END	375	PVC	52	33,295	444
STP1480	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	BURWELL ROAD	375	CO	37.95	24,299	324
STP288	COOK CRESCENT	CHESTNUT STREET	HIGHVIEW DRIVE	375	PVC	72.5	46,421	619
STP1910	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	250	VC	28.271	17,425	232
STP508	FIFTH AVENUE	HEMLOCK STREET	DUNKIRK DRIVE	575	VC	33.59	31,752	423
STP1449	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	750	CO	27	34,806	464
STP1132	MITCHELL STREET	WHITE STREET	PRINCESS AVENUE	300	VC	74.12	45,685	609
STP957	PARK AVENUE	MARY BUCKE STREET	KOPIC COURT	1050	CO	15.18	29,781	397
STP802	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	575	VC	202.45	191,369	2,552
STP1420	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDALE LINE	250	PVC	47.6	29,339	391
STP6	FAIRVIEW AVENUE	RAVEN AVENUE	LEGER AVENUE	1075	CO	80.77	168,120	2,242
STP473	ERIE STREET	THIRD AVENUE	SECOND AVENUE	1350	CO	93.9	219,314	2,924
STP212	COSTELLO COURT	ST. JOSEPH STREET	SOUTH END	750	VC	31.38	40,452	539
STP1143	GLADSTONE AVENUE	STANLEY STREET	METCALFE STREET	300	VC	77.11	47,528	634
STP1324	ALMA STREET	HIGHWAY #3 BYPASS	EDWARD STREET	600	CO	8.85	8,366	112
STP2161	PEACH TREE BOULEVARD	RAVEN AVENUE	RUSSET LANE	525	CO	75.2	68,836	918
STP1587	PENHALE AVENUE	FENWICK COURT	KENSINGTON COURT	900	CO	99.9	166,120	2,215

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1096	METCALFE STREET	CENTRE STREET	ST. ANNE'S PLACE	300	VC	64.01	39,454	526
STP81	ALDBOROUGH AVENUE	PULLEN AVENUE	HOLLAND AVENUE	990	VC	6.15	12,065	161
STP485	ERIE STREET	TALEQUAH STREET	PARK AVENUE	600	CO	90.83	85,859	1,145
STP746	WABBUN STREET	ROSS STREET	EAST END	575	VC	92.69	87,617	1,168
STP746	ELMINA STREET	OAK STREET	HEMLOCK STREET	575	VC	92.69	87,617	1,168
STP685	CURTIS STREET	MONDAMIN STREET	ST. CATHARINE STREET	300	VC	66.39	40,921	546
STP664	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	300	PVC	16.9	10,417	139
STP1252	BODKIN STREET	STEEPLECHASE COURT	EAST END	300	PVC	90.1	55,535	740
STP2039	EDWARD STREET	MANITOBA STREET	ALMA STREET	525	CO	95.6	87,509	1,167
STP301	RICE ROAD	HITCH CRESCENT	MANOR ROAD	200	PVC	48.5	29,894	399
STP582	HORTON STREET	CELESTINE STREET	KAINS STREET	825	CO	9.4	13,382	178
STP1484	SANDERS COURT	BURWELL ROAD	END	300	PVC	53.73	33,117	442
STP1186	FIRST AVENUE	REDAN STREET	TALBOT STREET	300	VC	124.97	77,027	1,027
STP2330	STANLEY STREET	GLADSTONE AVENUE	DRAKE STREET	525	CO	75	68,653	915
STP1766	FIRST AVENUE	HIGHWAY #3 BYPASS	EDWARD STREET	525	CO	6.71	6,142	82
STP2620	RENAISSANCE DRIVE	AUBURN DRIVE	HARLEQUIN COURT	900	CO	100	166,287	2,217
STP1545	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	575	CO	29.355	27,748	370
STP1541	FIRST AVENUE	MANDEVILLE ROAD	THOMPSON AVENUE	300	CO	36.695	22,618	302
STP738	STATION STREET	KAINS STREET	MEDA STREET	300	VC	54.15	33,376	445
STP2139	EASEMENT	24 BLAIRMONT TERRACE	SOUTHGATE PARKWAY	300	PVC	53.1	32,729	436
STP2403	WELLINGTON STREET	HEDGES COURT	CENTENNIAL AVENUE	525	CO	191.4	175,201	2,336
STP1843	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	HARPER ROAD	450	PVC	20.4	14,404	192
STP667	BURWELL ROAD	DONKER DRIVE	DENNIS ROAD	675	CO	70.9	74,439	993
STP1286	HIAWATHA STREET	OWAISSA STREET	OMEMEE STREET	300	VC	95.15	58,647	782
STP933	HIGHVIEW DRIVE	FANJOY DRIVE	HIGHVIEW DRIVE	750	CO	81.5	105,063	1,401
STP222	PHILIP STREET	HIGH STREET	RYERSON PLACE	600	CO	66.75	63,097	841
STP1075	MONTCALM STREET	WEST END	HUGHES STREET	150	VC	71.95	44,348	591
STP1075	MONTCALM STREET	WEST END	HUGHES STREET	150	VC	71.95	44,348	591
STP855	CHANT STREET	ELM STREET	APPLEWOOD CRESCENT	1050	CO	24.97	48,988	653
STP164	HIGHVIEW DRIVE	COOK CRESCENT	HIGHVIEW DRIVE	675	CO	45.8	48,086	641
STP524	CHESTER STREET	EAST AVENUE	VICTOR DRIVE	825	CO	72.6	103,358	1,378
STP563	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	375	VC	24.58	15,738	210
STP340	HIGHVIEW DRIVE	WELLINGTON STREET	RICKWOOD PLACE	1350	CO	113.39	264,836	3,531
STP2525	OXFORD TERRACE	RENAISSANCE DRIVE	AUBURN DRIVE	1500	CO	51.2	128,769	1,717
STP1006	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	975	CO	12.74	23,470	313
STP1068	BALACLAVA STREET	REDAN STREET	NOLAN STREET	1200	CO	103.2	214,807	2,864
STP2125	SOUTHGATE PARKWAY	BLAIRMONT TERRACE	HAMPSTEAD COURT	975	CO	90.4	166,541	2,221
STP2032	MANITOBA STREET	KAINS STREET	EDWARD STREET	525	CO	88.1	80,644	1,075
STP2203	EMPIRE PARKWAY	PEACH TREE BOULEVARD	END	250	PVC	11.8	7,273	97
STP1472	WELLINGTON STREET	MANOR ROAD	WELCH COURT	250	PVC	31	19,107	255
STP1412	BEECHWOOD CIRCLE	LAKE MARGARET TRAIL	END	300	PVC	95.8	59,048	787
STP1029	RIVERBANK DRIVE	BURWELL ROAD	GOLDENROD COURT	900	CO	92.9	154,480	2,060
STP26	CALDWELL STREET	MCLARTY DRIVE	LAWRENCE AVENUE	300	CO	87.78	54,105	721
STP2162	PEACH TREE BOULEVARD	RUSSET LANE	EMPIRE PARKWAY	300	PVC	33.8	20,833	278
STP1497	THIRD AVENUE	WELLINGTON STREET	NORTH END	900	PVC	34.5	57,369	765
STP544	TALBOT STREET	HINCKS STREET	MARY STREET	825	CO	57.42	81,747	1,090
STP766	BURWELL ROAD	BENNETT PLACE	SOUTH EDGEWARE ROAD	375	CO	37.95	24,299	324
STP1918	AIREY AVENUE	DUNWICH DRIVE	KER STREET	250	CO	49.073	30,247	403

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1244	HIGHVIEW DRIVE	WINDEMERE PLACE	STEEPLECHASE COURT	525	PVC	88.7	81,193	1,083
STP1835	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	1050	CO	105.3	206,585	2,754
STP849	LOCUST STREET	FIRST AVENUE	GREGORY PLACE	525	CO	51.82	47,434	632
STP758	THIRD AVENUE	FOREST AVENUE	MYRTLE STREET	750	VC	91.15	117,503	1,567
STP2472	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	250	PVC	8.5	5,239	70
STP1454	ORIOLE LANE	HICKORY LANE	CUL-DE-SAC	375	PVC	106	67,870	905
STP1168	FIFTH AVENUE	FOREST AVENUE	MYRTLE STREET	450	VC	89.74	63,362	845
STP34	DYER STREET	CALDWELL STREET	RAVEN AVENUE	375	CO	17.07	10,930	146
STP438	WELLINGTON STREET	FOURTH AVENUE	THIRD AVENUE	450	CO	87.1	61,498	820
STP2449	CENTRE STREET	MOORE STREET	ROSS STREET	375	PVC	9.82	6,288	84
STP2349	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	375	PVC	115.6	74,017	987
STP944	BONNIE PLACE	STOKES ROAD	STOKES ROAD	300	CO	18.288	11,272	150
STP999	SAUVE AVENUE	SCHREYER DRIVE	HARRINGTON CRESCENT	525	PVC	49.3	45,128	602
STP230	WOOD STREET	GLIDDON AVENUE	MANDEVILLE ROAD	525	VC	87.17	79,793	1,064
STP372	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	975	CO	91.4	168,383	2,245
STP1040	RIVERBANK DRIVE	BURWELL ROAD	GOLDENROD COURT	900	CO	121.4	201,872	2,692
STP159	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	675	CO	87	91,343	1,218
STP324	HIGHVIEW DRIVE	STEEPLECHASE COURT	LEXINGTON COURT	300	PVC	58.8	36,242	483
STP540	TALBOT STREET	EAST STREET	ELGIN STREET	450	CO	36.09	25,482	340
STP1960	KINGFISHER COURT	HUMMINGBIRD LANE	CUL-DE-SAC	450	CO	62	43,776	584
STP400	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	600	CO	84.8	80,159	1,069
STP2005	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	600	CO	79.5	75,149	1,002
STP1568	HAVENRIDGE COURT	GREENWAY BOULEVARD	16 HAVENRIDGE COURT	750	CO	39.6	51,049	681
STP2291	ALEXANDRIA AVENUE	REDAN STREET	MALAKOFF STREET	375	PVC	10.4	6,659	89
STP868	FAIRVIEW AVENUE	ELM STREET	ALDBOROUGH AVENUE	600	CO	83.8	79,213	1,056
STP1106	EAST STREET	SCOTT STREET	ELYSIAN STREET	300	VC	81.61	50,302	671
STP941	CHESTNUT STREET	CARRIE CRESCENT	COOK CRESCENT	250	CO	49.5	30,510	407
STP606	CELESTINE STREET	HORTON STREET	MANITOBA STREET	575	VC	37.95	35,873	478
STP558	HIAWATHA STREET	CURTIS STREET	SCOTT STREET	1050	VC	96.32	188,967	2,520
STP1061	REDAN STREET	WOODWORTH AVENUE	ARTHUR AVENUE	750	CO	104.85	135,164	1,802
STP2089	SHAW VALLEY DRIVE	OLD COURSE ROAD	END	450	CO	52	36,715	490
STP335	BODKIN STREET	STEEPLECHASE COURT	EAST END	375	PVC	92.7	59,355	791
STP927	FANJOY DRIVE	OLDEWOOD CRESCENT	OLDEWOOD CRESCENT	300	PVC	100.7	62,068	828
STP278	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	300	PVC	34.6	21,326	284
STP1225	FIRST AVENUE	TALBOT STREET	STEELE STREET	1200	CO	18.505	38,518	514
STP424	ROSETHORN COURT	RODNEY CRESCENT	SIFTON DRIVE	825	CO	80.2	114,178	1,522
STP424	ROSETHORN COURT	SIFTON DRIVE	END	825	CO	80.2	114,178	1,522
STP1322	ALMA STREET	HIGHWAY #3 BYPASS	EDWARD STREET	750	CO	72.6	93,590	1,248
STP1305	EDWARD STREET	BALACLAVA STREET	INKERMAN STREET	450	CO	63.96	45,160	602
STP158	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	450	CO	55.4	39,116	522
STP2017	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	300	PVC	44.8	27,613	368
STP2188	MOORE STREET	TALBOT STREET	CENTRE STREET	575	CO	57.9	54,731	730
STP1745	FIRST AVENUE	PHILIP STREET	ST. JOSEPH STREET	375	VC	81.4	52,119	695
STP1621	INKERMAN STREET	NOLAN STREET	EDWARD STREET	575	VC	112.4	106,248	1,417
STP1851	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	1050	CO	102.1	200,307	2,671
STP946	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	600	CO	38.9	36,771	490
STP2167	WELLINGTON STREET	PRINCESS AVENUE	MOORE STREET	375	PVC	24.6	15,751	210
STP1886	HIGHVIEW DRIVE	CHESTNUT STREET	FOREST AVENUE	300	PVC	49.854	30,728	410

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1234	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	750	CO	62.7	80,828	1,078
STP777	AVON ROAD	CONFEDERATION DRIVE	MCGREGOR COURT	1800	CO	11.58	45,051	601
STP998	GALBRAITH COURT	SAUVE AVENUE	WEST END	525	PVC	44.3	40,551	541
STP998	GALBRAITH COURT	SAUVE AVENUE	WEST END	525	PVC	44.3	40,551	541
STP1503	HAGERMAN CRESCENT	WEST END	FAITH BOULEVARD	450	CO	108.1	76,326	1,018
STP2363	CAROLINA CRESCENT	ARBOR TRAIL	PEACH TREE BOULEVARD	375	PVC	88.3	56,537	754
STP970	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	825	CO	90.53	128,885	1,718
STP117	ELM STREET	RHONDA COURT	FAIRVIEW AVENUE	1350	CO	82.5	192,688	2,569
STP1039	RIVERBANK DRIVE	GOLDENROD COURT	CRANBERRY COURT	900	CO	120.8	200,874	2,678
STP2226	OAKMONT STREET	TURNBERRY COURT	DORAL COURT	825	CO	44.4	63,211	843
STP2339	PEAR TREE AVENUE	HONEY BEND	ASHBERRY PLACE	825	CO	84	119,588	1,595
STP2424	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	1200	CO	76.7	159,649	2,129
STP4	LEGER AVENUE	VANIER PLACE	MCGIBBON AVENUE	1200	CO	142.65	296,921	3,959
STP4	LEGER AVENUE	MCGIBBON AVENUE	FAIRVIEW AVENUE	1200	CO	142.65	296,921	3,959
STP2357	CAROLINA CRESCENT	PEACH TREE BOULEVARD	ARBOR TRAIL	600	CO	19.9	18,811	251
STP43	FIRST AVENUE	GLANWORTH AVENUE	LINCOLN COURT	300	VC	73.15	45,087	601
STP1147	VICTORIA STREET	ISABEL STREET	METCALFE STREET	300	VC	95	58,555	781
STP1191	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	450	CO	147.33	104,025	1,387
STP971	ERINLEA DRIVE	IDSARDI AVENUE	CRESTWOOD COURT	375	CO	43.28	27,712	369
STP687	THORMAN TERRACE	WRIGHT CRESCENT	END	375	CO	32.5	20,809	277
STP935	HIGHVIEW DRIVE	FANJOY DRIVE	HIGHVIEW DRIVE	675	PVC	91.2	95,752	1,277
STP628	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	525	CO	23.16	21,200	283
STP1171	LOCUST STREET	WEST OF FIRST AVENUE	FIRST AVENUE	575	VC	64.22	60,705	809
STP1478	EASEMENT	BENNETT PLACE	BURWELL ROAD	375	CO	47.7	30,542	407
STP244	CHESTNUT STREET	MANOR ROAD	CARRIE CRESCENT	250	CO	45.6	28,106	375
STP1483	SANDERS COURT	BURWELL ROAD	END	300	PVC	8.72	5,375	72
STP2317	HUGHES STREET	BARWICK STREET	WOLFE STREET	675	PVC	34.4	36,117	482
STP420	ROSETHORN COURT	SIFTON DRIVE	END	300	PVC	40.3	24,840	331
STP937	COOK CRESCENT	CHESTNUT STREET	HIGHVIEW DRIVE	250	PVC	37.86	23,336	311
STP661	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	250	PVC	30	18,491	247
STP860	MCLARTY DRIVE	LUTON CRESCENT	LUTON CRESCENT	600	CO	59.74	56,470	753
STP267	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	1650	CO	24.69	82,766	1,104
STP2514	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	600	CO	9.6	9,075	121
STP1573	EASEMENT	HAVENRIDGE COURT	SWM12	825	CO	66.5	94,674	1,262
STP1956	OSPREY LANE	HUMMINGBIRD LANE	CUL-DE-SAC	375	PVC	66.8	42,771	570
STP863	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	525	CO	54.71	50,080	668
STP2425	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	1200	CO	107.6	223,966	2,986
STP482	ERIE STREET	SECOND AVENUE	FIRST AVENUE	750	PVC	48.01	61,891	825
STP2344	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	450	CO	114	80,492	1,073
STP434	FIFTH AVENUE	WELLINGTON STREET	ERIE STREET	300	PVC	11.5	7,088	95
STP2015	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	300	PVC	23.4	14,423	192
STP1178	CHESTER STREET	WILLOW STREET	SUNSET DRIVE	450	CO	80	56,485	753
STP1025	BURWELL ROAD	GREENWAY BOULEVARD	DENNIS ROAD	1200	CO	78.2	162,771	2,170
STP1287	OWAISSA STREET	HIAWATHA STREET	MONDAMIN STREET	575	VC	17.81	16,835	224
STP1637	HUMMINGBIRD LANE	OSPREY LANE	WARBLER HEIGHTS	450	CO	84.9	59,945	799
STP1396	SPARLING ROAD	SPACKMAN BOULEVARD	ANDERSON AVENUE	575	VC	36.98	34,956	466
STP2647	STANLEY STREET	ST. ANNE'S PLACE	WILLIAM STREET	525	CO	103.9	95,107	1,268
STP1667	WELLINGTON STREET	COULTER AVENUE	HEDGES COURT	375	CO	39.7	25,419	339

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP163	HIGHVIEW DRIVE	COOK CRESCENT	HIGHVIEW DRIVE	675	CO	80.7	84,728	1,130
STP1426	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	AUGUSTA CRESCENT	675	CO	75.4	79,164	1,056
STP2433	PEACH TREE BOULEVARD	MELROSE COURT	SOUTHDALE LINE	300	PVC	40.6	25,025	334
STP1015	AXFORD PARKWAY	SAUVE AVENUE	WARBLER HEIGHTS	375	PVC	67.94	43,501	580
STP211	FIRST AVENUE	ST. JOSEPH STREET	ENGLEWOOD STREET	375	VC	33.93	21,725	290
STP1881	RICE ROAD	WELLINGTON STREET	HITCH CRESCENT	300	PVC	32.166	19,826	264
STP1928	PADDON STREET	HIGHVIEW DRIVE	POL COURT	250	CO	36.271	22,356	298
STP2300	QUEEN STREET	CENTRE STREET	ST. ANNE'S PLACE	450	PVC	66	46,600	621
STP1972	HARVEST COURT	LAWRENCE AVENUE	END	375	PVC	36.2	23,178	309
STP2496	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	300	PVC	40.5	24,963	333
STP2496	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	2.12	PVC	40.5	24,963	333
STP869	FAIRVIEW AVENUE	ELM STREET	ALDBOROUGH AVENUE	625	CO	13	13,649	182
STP734	TALBOT HILL	WOODLAND ROAD	STANLEY STREET	750	CO	16	20,626	275
STP2446	CENTRE STREET	PRINCESS AVENUE	MOORE STREET	250	PVC	5.9	3,637	48
STP2625	BARNES STREET	VERNA STREET	EAST END	450	PVC	107.9	76,185	1,016
STP123	TAYLOR CRESCENT	ELM STREET	WEST END	250	CO	54.56	33,629	448
STP1715	PINE VALLEY DRIVE	CIRCLEWOOD DRIVE	ARROWWOOD LANE	1050	CO	102.7	201,484	2,686
STP73	ALDBOROUGH AVENUE	SPARTA STREET	SPARTA STREET	450	CO	55.53	39,208	523
STP1443	FAITH BOULEVARD	HAGERMAN CRESCENT	SOUTHGATE PARKWAY	675	CO	108.3	113,706	1,516
STP522	WILSON AVENUE	REGENT STREET	CHESTER STREET	375	CO	65	41,619	555
STP1282	TALBOT STREET	FIRST AVENUE	PARK AVENUE	975	CO	23.7	43,662	582
STP2373	OAKMONT STREET	DORAL COURT	GLENWOOD AVENUE	600	CO	42	39,701	529
STP1371	MONDAMIN STREET	CURTIS STREET	SCOTT STREET	375	VC	54.56	34,934	466
STP2445	CENTRE STREET	PRINCESS AVENUE	MOORE STREET	250	PVC	12	7,396	99
STP521	NAAMA STREET	WAWA STREET	ROSS STREET	300	VC	53.64	33,062	441
STP1585	FENWICK COURT	PENHALE AVENUE	EAST END	450	PVC	89.9	63,475	846
STP71	ALDBOROUGH AVENUE	SPARTA STREET	PULLEN AVENUE	525	CO	52.73	48,267	644
STP1606	KANTOR COURT	BAILEY AVENUE	CUL-DE-SAC	600	CO	104.3	98,591	1,315
STP1897	MCLARTY DRIVE	LUTON CRESCENT	LUTON CRESCENT	300	VC	45.872	28,274	377
STP2225	OAKMONT STREET	SHAW VALLEY DRIVE	TURNBERRY COURT	900	CO	64.5	107,255	1,430
STP996	GALBRAITH COURT	SAUVE AVENUE	WEST END	375	PVC	67.1	42,963	573
STP713	ROSS STREET	FOREST AVENUE	MYRTLE STREET	1350	CO	45.8	106,971	1,426
STP502	HIGH STREET	CHESTNUT STREET	PHILIP STREET	375	CO	25.91	16,590	221
STP1384	ARTHUR AVENUE	REDAN STREET	MALAKOFF STREET	375	CO	7.92	5,071	68
STP134	POL COURT	HIGHVIEW DRIVE	PADDON STREET	300	CO	41.91	25,832	344
STP204	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	675	CO	76.95	80,791	1,077
STP916	MANOR ROAD	HIGHVIEW DRIVE	ELM STREET	300	CO	42.062	25,926	346
STP1065	REDAN STREET	BALACLAVA STREET	MILLER STREET	1050	CO	61.26	120,184	1,602
STP496	CHESTNUT STREET	FIRST AVENUE	HIGH STREET	675	CO	95.4	100,162	1,335
STP496	HIGH STREET	CHESTNUT STREET	PHILIP STREET	675	CO	95.4	100,162	1,335
STP41	LAWRENCE AVENUE	CALDWELL STREET	RAVEN AVENUE	525	CO	78.94	72,259	963
STP138	PADDON STREET	HIGHVIEW DRIVE	POL COURT	450	CO	85.04	60,044	801
STP1347	HAMMOND STREET	BALACLAVA STREET	INKERMAN STREET	825	CO	52.43	74,643	995
STP1410	ST. CATHARINE STREET	SCOTT STREET	EAGLE STREET	450	VC	24.8	17,510	233
STP918	MANOR ROAD	ERINLEA DRIVE	HIGHVIEW DRIVE	525	CO	38.82	35,535	474
STP829	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	450	CO	45	31,773	424
STP1053	BALACLAVA STREET	EDWARD STREET	HAMMOND STREET	850	CO	62.72	104,295	1,391
STP588	KAINS STREET	STATION STREET	JOHN STREET	600	CO	13.45	12,714	170

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1971	LAWRENCE AVENUE	MAJESTIC COURT	HARVEST COURT	375	CO	40.1	25,676	342
STP920	VANBUSKIRK DRIVE	MCCULLY DRIVE	MCCULLY DRIVE	450	CO	47.24	33,355	445
STP411	HIGHVIEW DRIVE	RICKWOOD PLACE	RIPLEY LANE	300	PVC	64	39,447	526
STP1943	PENHALE AVENUE	DAVID DRIVE	SOUTHGATE PARKWAY	300	PVC	41.9	25,826	344
STP451	WELLINGTON STREET	RICE ROAD	MANOR ROAD	1200	CO	86.56	180,172	2,402
STP546	TALBOT STREET	SOUTHWICK STREET	HIAWATHA STREET	900	CO	46.54	77,390	1,032
STP136	POL COURT	HIGHVIEW DRIVE	PADDON STREET	675	CO	33.53	35,204	469
STP2137	EASEMENT	24 BLAIRMONT TERRACE	SOUTHGATE PARKWAY	250	PVC	57.7	35,564	474
STP665	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	375	PVC	76.3	48,854	651
STP111	APPLEWOOD CRESCENT	CHANT STREET	CHANT STREET	450	CO	68.88	48,634	648
STP2096	OLD COURSE ROAD	VALDERRAMA LANE	ROYAL DORNOCH DRIVE	1200	CO	44.9	93,458	1,246
STP1866	ROSEMOUNT CRESCENT	LOCKE AVENUE	LOCKE AVENUE	300	CO	42.672	26,302	351
STP1461	ROSS STREET	LEILA STREET	MAPLE STREET	675	CO	94.1	98,797	1,317
STP1461	ROSS STREET	CHESTNUT STREET	LEILA STREET	675	CO	94.1	98,797	1,317
STP579	KAINS STREET	STATION STREET	JOHN STREET	375	VC	50.6	32,399	432
STP2253	JONAS STREET	ROSS STREET	LYDIA STREET	450	PVC	18.5	13,062	174
STP1346	HAMMOND STREET	INKERMAN STREET	WOODWORTH AVENUE	450	CO	17.07	12,053	161
STP2079	SHAW VALLEY DRIVE	OAKMONT STREET	PEBBLE BEACH COURT	1050	CO	46.4	91,031	1,214
STP808	SPARLING ROAD	SPACKMAN BOULEVARD	ANDERSON AVENUE	675	CO	51.82	54,407	725
STP571	MARY STREET	CURTIS STREET	SCOTT STREET	300	VC	83.06	51,195	683
STP799	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	900	CO	44.65	74,247	990
STP1599	PRESPA COURT	ALDBOROUGH AVENUE	END	375	PVC	16	10,245	137
STP2423	FOXTAIL LANE	BENJAMIN PARKWAY	STYLES DRIVE	1200	CO	78.7	163,811	2,184
STP203	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	675	CO	131.37	137,928	1,839
STP2202	EMPIRE PARKWAY	PEACH TREE BOULEVARD	END	600	CO	101.3	95,756	1,277
STP931	NEAL AVENUE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	825	PVC	18.13	25,811	344
STP1441	HAGERMAN CRESCENT	FAITH BOULEVARD	SOUTHGATE PARKWAY	300	PVC	52.9	32,606	435
STP1746	FOREST AVENUE	DAUGHARTY DRIVE	FAIRVIEW AVENUE	600	CO	21	19,851	265
STP1523	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	750	CO	60	77,347	1,031
STP1990	RAVEN AVENUE	PENHALE AVENUE	NOBLE LANE	900	CO	20.3	33,756	450
STP2066	STANLEY STREET	WILLIAM STREET	WELLINGTON STREET	450	PVC	51.6	36,433	486
STP315	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	750	CO	49.68	64,043	854
STP2627	BARNES STREET	ROSS STREET	LYDIA STREET	450	PVC	96.2	67,924	906
STP981	WARBLER HEIGHTS	HUMMINGBIRD LANE	END	300	PVC	26.6	16,395	219
STP281	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	250	PVC	37.2	22,929	306
STP1236	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	675	CO	109.2	114,651	1,529
STP621	LOCKE AVENUE	LAURIER ROAD	CONFEDERATION DRIVE	450	CO	55.17	38,954	519
STP206	FIRST AVENUE	ST. JOSEPH STREET	ENGLEWOOD STREET	750	CO	119.79	154,423	2,059
STP1223	CHESTNUT STREET	FIRST AVENUE	HIGH STREET	600	CO	85.34	80,669	1,076
STP2199	BLAIRMONT TERRACE	BEND	PEACH TREE BOULEVARD	375	PVC	82.5	52,824	704
STP441	WELLINGTON STREET	THIRD AVENUE	SECOND AVENUE	825	CO	84.53	120,343	1,605
STP1842	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	HARPER ROAD	600	PVC	16.5	15,597	208
STP1451	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	825	CO	37.9	53,957	719
STP1979	PEACH TREE BOULEVARD	BRIDLE PATH	CIDER MILL LANE	375	PVC	84.3	53,976	720
STP215	ELM STREET	HOLLAND AVENUE	MORRISON DRIVE	1650	CO	10.97	36,774	490
STP249	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	525	CO	117.3	107,373	1,432
STP2552	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	450	CO	46.6	32,903	439
STP2630	JONAS STREET	ROSS STREET	LYDIA STREET	450	PVC	83.8	59,168	789

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP92	PULLEN AVENUE	FRANCES STREET SOUTH	ALDBOROUGH AVENUE	375	VC	49.14	31,464	420
STP1397	THIRD AVENUE	WELLINGTON STREET	ERIE STREET	300	PVC	15	9,246	123
STP1432	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	300	CO	51.7	31,866	425
STP2374	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	300	CO	52.6	32,421	432
STP313	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	750	CO	123.44	159,129	2,122
STP1539	HUMMINGBIRD LANE	OSPREY LANE	WARBLER HEIGHTS	525	CO	81.6	74,694	996
STP2014	PINE VALLEY DRIVE	DEERFIELD COURT	PRIMROSE COURT	525	CO	107.6	98,494	1,313
STP1110	GLADSTONE AVENUE	METCALFE STREET	ELGIN STREET	750	VC	109.73	141,455	1,886
STP1411	BEECHWOOD CIRCLE	LAKE MARGARET TRAIL	END	250	PVC	45.2	27,860	371
STP876	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	1200	CO	14.32	29,807	397
STP1559	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	300	PVC	54.5	33,592	448
STP325	HIGHVIEW DRIVE	LEXINGTON COURT	FALCONRIDGE COURT	600	CO	92.7	87,626	1,168
STP379	HIGHVIEW DRIVE	SIFTON DRIVE	WELLINGTON STREET	450	CO	81.1	57,262	763
STP271	BONNIE PLACE	STOKES ROAD	STOKES ROAD	525	CO	70.71	64,726	863
STP696	MARY STREET	TALBOT STREET	CURTIS STREET	300	VC	76.2	46,967	626
STP1321	AVON ROAD	CONFEDERATION DRIVE	MCGREGOR COURT	375	CO	3.05	1,953	26
STP2021	ALDERWOOD COURT	ARROWWOOD LANE	CUL-DE-SAC	300	PVC	38.6	23,792	317
STP2249	ROSS STREET	JONAS STREET	AMELIA STREET	600	CO	31.2	29,492	393
STP167	HIGH STREET	PHILIP STREET	ST. JOSEPH STREET	750	CO	97.54	125,740	1,677
STP1162	MOORE STREET	CENTRE STREET	AMELIA STREET	300	VC	16.63	10,250	137
STP258	STOKES ROAD	BONNIE PLACE	CHESTNUT STREET	1500	CO	48.01	120,746	1,610
STP1007	HARRINGTON CRESCENT	SAUVE AVENUE	SAUVE AVENUE	300	PVC	11.9	7,335	98
STP1038	RIVERBANK DRIVE	CRANBERRY COURT	END	750	CO	50	64,456	859
STP1707	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	450	CO	49.4	34,880	465
STP1788	FARLEY PLACE	STANLEY STREET	SOUTH END	375	PVC	45.98	29,440	393
STP893	CHESTNUT STREET	CAVANAUGH DRIVE	FAIRVIEW AVENUE	450	CO	105.5	74,490	993
STP1416	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDAL E LINE	600	CO	110	103,979	1,386
STP938	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	525	CO	87.6	80,186	1,069
STP1905	RAVEN AVENUE	DAVID DRIVE	DYER STREET	300	CO	56.998	35,132	468
STP103	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	300	CO	61.23	37,740	503
STP2288	ALEXANDRIA AVENUE	TALBOT STREET	MALAKOFF STREET	200	PVC	100	61,637	822
STP1584	FENWICK COURT	PENHALE AVENUE	EAST END	375	PVC	76	48,662	649
STP2564	FOURTH AVENUE	FOREST AVENUE	MYRTLE STREET	300	PVC	15	9,246	123
STP1133	TALBOT STREET	MOORE STREET	JOHN STREET	750	CO	67.6	87,144	1,162
STP2136	HAMPSTEAD COURT	SOUTHGATE PARKWAY	END	450	CO	86	60,722	810
STP303	GAYLORD ROAD	MICHIGAN BOULEVARD	EDWARD STREET	450	CO	167.15	118,019	1,574
STP383	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	375	CO	35.2	22,538	301
STP705	MEDA STREET	HIAWATHA STREET	ST. CATHARINE STREET	300	VC	75.99	46,838	625
STP1250	HIGHVIEW DRIVE	WELLINGTON STREET	WINDEMERE PLACE	250	PVC	23.5	14,485	193
STP32	DYER STREET	CALDWELL STREET	RAVEN AVENUE	525	CO	84.73	77,559	1,034
STP1999	PINEHURST PLACE	LOCKE AVENUE	END	600	PVC	66	62,388	832
STP1823	SOUTH EDGEWARE ROAD	HARPER ROAD	HIGHBURY AVENUE	300	PVC	65.5	40,372	538
STP2467	FOX HOLLOW COURT	PEACH TREE BOULEVARD	END	300	PVC	106.3	65,520	874
STP127	GUSTIN PLACE	VANBUSKIRK DRIVE	WEST END	300	CO	92.72	57,150	762
STP127	LAWRENCE AVENUE	BUTLER DRIVE	MAJESTIC COURT	300	CO	92.72	57,150	762
STP610	CONFEDERATION DRIVE	LAURIER ROAD	LOCKE AVENUE	300	CO	85.04	52,416	699
STP169	MORRISON DRIVE	ST. JOSEPH STREET	ELM STREET	1050	VC	19.81	38,865	518
STP139	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	675	CO	16.15	16,956	226

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1479	EASEMENT	BENNETT PLACE	BURWELL ROAD	575	VC	5.47	5,171	69
STP1326	BROCK STREET	HUGHES STREET	ALMA STREET	450	VC	60.96	43,042	574
2327	STANLEY STREET	WELLINGTON STREET	GLADSTONE AVENUE	450	PVC	27	19,064	254
STP2595	ELM STREET	HEPBURN AVENUE	MEEHAN STREET	450	PVC	48.4	34,174	456
STP771	BURWELL ROAD	SILVER STREET	BENNETT PLACE	975	CO	99.67	183,619	2,448
STP2448	MOORE STREET	CENTRE STREET	AMELIA STREET	250	PVC	20.5	12,636	168
STP846	CHESTNUT STREET	FIRST AVENUE	HIGH STREET	575	VC	155.49	146,980	1,960
STP707	MARGARET STREET	VICTORIA STREET	PRINCE ALBERT STREET	525	VC	75.18	68,817	918
STP2135	HAMPSTEAD COURT	SOUTHGATE PARKWAY	END	375	PVC	86	55,065	734
STP2648	ST. ANNE'S PLACE	STANLEY STREET	WILLIAM STREET	300	PVC	13.8	8,506	113
STP1442	FAITH BOULEVARD	HAGERMAN CRESCENT	SOUTHGATE PARKWAY	675	CO	108.8	114,231	1,523
STP184	PARK AVENUE	CHESTNUT STREET	MARY BUCKE STREET	900	VC	90.98	151,288	2,017
STP2151	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	300	PVC	7.9	4,869	65
STP2459	ST. GEORGE STREET	CORA STREET	NORTH CITY LIMITS	375	PVC	27.5	17,608	235
STP737	MOORE STREET	AMELIA STREET	WELLINGTON STREET	600	CO	5.3	5,010	67
STP1906	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	300	CO	45.415	27,992	373
STP2195	DEERFIELD COURT	PINE VALLEY DRIVE	END	600	CO	76.8	72,597	968
STP604	FLORA STREET	TALBOT STREET	KAINS STREET	1350	CO	72.24	168,725	2,250
STP19	VANIER PLACE	KER STREET	LEGER AVENUE	600	CO	91.44	86,435	1,152
STP891	FAIRVIEW AVENUE	FOREST AVENUE	CHESTNUT STREET	450	CO	53.2	37,563	501
STP1124	MITCHELL STREET	SOUTHWICK STREET	WHITE STREET	375	VC	74.37	47,618	635
STP2307	HINCKS STREET	GLADSTONE AVENUE	ROSEBERY PLACE	525	CO	33.7	30,848	411
STP984	WARBLER HEIGHTS	AXFORD PARKWAY	HUMMINGBIRD LANE	600	CO	114	107,760	1,437
STP336	HIGHVIEW DRIVE	WINDEMERE PLACE	STEEPLECHASE COURT	450	PVC	93	65,664	876
SPT2094	OLD COURSE ROAD	SHAW VALLEY DRIVE	VALDERRAMA LANE	975	CO	87.9	161,935	2,159
STP2024	PRIMROSE COURT	PINE VALLEY DRIVE	END	300	PVC	53.8	33,161	442
STP1017	AXFORD PARKWAY	SAUVE AVENUE	WARBLER HEIGHTS	525	PVC	59.36	54,336	724
STP760	INKERMAN STREET	JOHNSON PLACE	GUEST STREET	675	CO	97.23	102,083	1,361
STP2407	BURWELL ROAD	HARWILL ROAD	EDWARD STREET	750	CO	69.4	89,465	1,193
STP107	LAWRENCE AVENUE	BUTLER DRIVE	BUTLER DRIVE	750	CO	85.95	110,800	1,477
STP298	MANOR ROAD	RICE ROAD	WELLINGTON STREET	375	PVC	95.7	61,275	817
STP2535	STYLES DRIVE	SOUTHDAL E LINE	WEIR CRESCENT	525	CO	53.6	49,064	654
STP748	ELMINA STREET	OAK STREET	HEMLOCK STREET	575	VC	20.12	19,019	254
STP49	AIREY AVENUE	DUNWICH DRIVE	DUNWICH DRIVE	600	CO	89.31	84,422	1,126
STP1354	JACKSON STREET	JESSIE STREET	NORTH END	300	VC	20.54	12,660	169
STP25	CALDWELL STREET	DYER STREET	MCLARTY DRIVE	750	CO	46.94	60,511	807
STP102	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	300	CO	32.74	20,180	269
STP1753	TALBOT STREET	FIRST AVENUE	TIMKEN ENTRANCE	300	CO	17.6	10,848	145
STP1616	BARRETT CRESCENT	COLEMAN COURT	SOUTHGATE PARKWAY	375	PVC	81.9	52,440	699
STP1337	EDWARD STREET	INKERMAN STREET	WOODWORTH AVENUE	375	CO	105.55	67,582	901
STP887	FAIRVIEW AVENUE	WELLINGTON STREET	FOREST AVENUE	750	CO	46.5	59,944	799
STP682	MCGREGOR COURT	END	AVON ROAD	450	PVC	37.5	26,478	353
STP2456	ST. GEORGE STREET	SCOTT STREET	ELYSIAN STREET	300	PVC	78.5	48,385	645
STP435	WELLINGTON STREET	FIFTH AVENUE	FOURTH AVENUE	1050	CO	10	19,619	262
STP2308	GLADSTONE AVENUE	ELGIN STREET	HINCKS STREET	1050	CO	106	207,958	2,773
STP1578	HAWTHORN COURT	GREENWAY BOULEVARD	END	450	PVC	72.2	50,978	680
STP751	HEMLOCK STREET	ELMINA STREET	FIFTH AVENUE	200	VC	105.77	65,193	869
STP1719	TAMARACK COURT	PINE VALLEY DRIVE	WEST END	450	CO	54.8	38,692	516

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1551	BROOKSIDE DRIVE	MEADOWVALE DRIVE	MEADOWVALE DRIVE	600	CO	82.9	78,363	1,045
STP2149	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	250	PVC	9.9	6,102	81
STP13	RAVEN AVENUE	PENHALE AVENUE	NOBLE LANE	900	CO	35.66	59,298	791
STP1703	PARK AVENUE	MARY STREET EAST	WELLINGTON STREET	825	CO	107.7	153,329	2,044
STP2485	ROYAL DORNOCH DRIVE	VALDERRAMA LANE	MUIRFIELD DRIVE	2.85	CO	45.7	28,168	376
STP2485	ROYAL DORNOCH DRIVE	VALDERRAMA LANE	MUIRFIELD DRIVE	750	CO	45.7	58,913	786
STP2481	VALDERRAMA LANE	OLD COURSE ROAD	ROYAL DORNOCH DRIVE	300	PVC	88.3	54,425	726
STP2481	VALDERRAMA LANE	OLD COURSE ROAD	ROYAL DORNOCH DRIVE	0.47	PVC	88.3	54,425	726
STP616	WARREN CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	300	CO	109.73	67,634	902
STP54	DUNWICH DRIVE	HOWARD PLACE	AIREY AVENUE	450	CO	10.4	7,343	98
STP1377	MORRISON DRIVE	ST. JOSEPH STREET	ELM STREET	525	CO	62.5	57,210	763
STP2471	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	250	PVC	34.5	21,265	284
STP1047	LINDEN LANE	COTTONWOOD DRIVE	END	375	PVC	49	31,374	418
STP2613	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	375	PVC	62.3	39,890	532
STP583	KAINS STREET	YARWOOD STREET	HORTON STREET	1350	CO	54.07	126,287	1,684
STP1067	BALACLAVA STREET	REDAN STREET	NOLAN STREET	1200	CO	89	185,251	2,470
STP617	WARREN CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	450	CO	15.24	10,760	143
STP828	SINCLAIR AVENUE	RIPLEY LANE	MANOR ROAD	375	CO	30.8	19,721	263
STP630	NORTHWOOD PLACE	CONFEDERATION DRIVE	END	300	CO	45.11	27,804	371
STP2348	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	300	PVC	72.7	44,810	597
STP47	ALDBOROUGH AVENUE	GLANWORTH AVENUE	AIREY AVENUE	900	CO	600	997,720	13,303
STP1430	AUGUSTA CRESCENT	SHAW VALLEY DRIVE	SHAW VALLEY DRIVE	300	CO	43.5	26,812	357
STP1366	MARY STREET EAST	FIRST AVENUE	PARK AVENUE	525	CO	5.45	4,989	67
STP1366	MARY STREET EAST	FIRST AVENUE	PARK AVENUE	525	CO	5.45	4,989	67
STP637	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	900	CO	113.69	189,051	2,521
STP2581	PARKSIDE DRIVE	ELM STREET	BELL AVENUE	375	PVC	20	12,806	171
STP2254	REGENT STREET	EAST AVENUE	EAST END	300	PVC	103.6	63,856	851
STP2002	TRAFALGAR STREET	NELSON STREET	WOODWORTH AVENUE	250	PVC	32	19,724	263
STP1672	WELLINGTON STREET	HEDGES COURT	CENTENNIAL AVENUE	375	CO	62.5	40,018	534
STP2526	AUBURN DRIVE	OXFORD TERRACE	CENTENNIAL AVENUE	250	PVC	9.6	5,917	79
STP955	TREVITHICK TERRACE	CAVANAUGH DRIVE	CHESTNUT STREET	300	VC	17.63	10,867	145
STP2091	PEBBLE BEACH COURT	CARNOUSTIE COURT	END	1050	CO	47.7	93,581	1,248
STP2197	BLAIRMONT TERRACE	BEND	PEACH TREE BOULEVARD	375	PVC	21.4	13,702	183
STP2034	MANITOBA STREET	KAINS STREET	EDWARD STREET	450	CO	96.2	67,924	906
STP2532	STYLES DRIVE	SOUTHDALE LINE	WEIR CRESCENT	375	PVC	15.5	9,924	132
STP513	WILSON AVENUE	GLENBANNER STREET	SUNSET DRIVE	300	PVC	108.3	66,753	890
STP1328	ELM STREET	SUNSET DRIVE	WILSON AVENUE	375	CO	68.5	43,860	585
STP512	WILSON AVENUE	GLENBANNER STREET	SUNSET DRIVE	525	CO	95.8	87,692	1,169
STP466	STEELE STREET	FIRST AVENUE	PARK AVENUE	1575	VC	170.69	572,190	7,629
STP1656	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	900	CO	61.3	101,934	1,359
STP1413	BEECHWOOD CIRCLE	LAKE MARGARET TRAIL	END	450	CO	91.9	64,888	865
STP1602	BAILEY AVENUE	KANTOR COURT	SOUTH END	375	PVC	53	33,935	452
STP2509	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	600	CO	12	11,343	151
STP2508	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	375	PVC	28.52	18,261	243
STP948	WELLINGTON STREET	ROSETHORN COURT	RODNEY CRESCENT	525	CO	35.5	32,496	433
STP729	WELLINGTON STREET	MOORE STREET	ROSS STREET	600	CO	79	74,676	996
STP2191	BRIDLE PATH	PEACH TREE BOULEVARD	END	450	CO	73.3	51,755	690
STP1841	FIRST AVENUE	EDWARD STREET	REDAN STREET	1500	VC	55.876	140,529	1,874

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP814	WOODWORTH AVENUE	REDAN STREET	EDWARD STREET	300	CO	14.63	9,017	120
STP479	FOREST AVENUE	SECOND AVENUE	FIRST AVENUE	3000	CO	128.63	1,240,786	16,544
STP1460	HEMLOCK STREET	ROSS STREET	ELMINA STREET	825	CO	9.3	13,240	177
STP605	CELESTINE STREET	HORTON STREET	MANITOBA STREET	450	CO	30.4	21,464	286
STP333	STEEPLECHASE COURT	BODKIN STREET	EAST END	300	PVC	108.4	66,814	891
STP884	TAYLOR CRESCENT	ELM STREET	WEST END	600	CO	45.42	42,934	572
STP2095	OLD COURSE ROAD	VALDERRAMA LANE	ROYAL DORNOCH DRIVE	975	CO	44.5	81,981	1,093
STP779	ROSEMOUNT CRESCENT	LOCKE AVENUE	LOCKE AVENUE	600	CO	72.85	68,863	918
STP650	DONKER DRIVE	END	WRIGHT CRESCENT	675	CO	88.5	92,918	1,239
STP1855	DENNIS ROAD	BURWELL ROAD	HIGHBURY AVENUE	525	CO	96.2	88,058	1,174
STP1743	FIRST AVENUE	CHESTNUT STREET	BRANT AVENUE	825	CO	22.56	32,118	428
STP1302	ROSS STREET	WELLINGTON STREET	ERIE STREET	825	CO	43	61,218	816
STP551	TALBOT STREET	MONDAMIN STREET	PRINCESS AVENUE	675	CO	58.83	61,767	824
STP1174	CHESTER STREET	HENRY STREET	DEVONSHIRE PLACE	525	VC	129.8	118,815	1,584
STP1129	PRINCESS AVENUE	CENTRE STREET	TALBOT STREET	575	VC	48.28	45,637	608
STP2102	EASEMENT	SWM17	OLD COURSE ROAD	900	CO	25.1	41,738	557
STP2604	FIFTH AVENUE	PINE STREET	ELM STREET	375	PVC	14	8,964	120
STP638	LOCKE AVENUE	ROSEMOUNT CRESCENT	PINEHURST PLACE	375	CO	76.2	48,790	651
STP220	RYERSON PLACE	PHILIP STREET	EAST END	450	CO	89.92	63,490	847
STP1492	THIRD AVENUE	WELLINGTON STREET	NORTH END	525	PVC	75.5	69,110	921
STP2283	CASO CROSSING	WELLINGTON STREET	TALBOT STREET	450	CO	76.8	54,226	723
STP1240	FIRST AVENUE	SOUTH EDGEWARE ROAD	HIGHWAY #3 BYPASS	900	CO	35	58,200	776
STP2381	EASEMENT	22 DORAL COURT	DORAL COURT	450	CO	24.5	17,299	231
STP2001	BURWELL ROAD	BROOKSIDE DRIVE	RIVERBANK DRIVE	1500	CO	23.7	59,606	795
STP1962	OSPREY LANE	HUMMINGBIRD LANE	CUL-DE-SAC	250	PVC	44.3	27,305	364
STP2419	BIRCHALL LANE	BENJAMIN PARKWAY	END	375	PVC	75.6	48,406	645
STP2028	LAKE MARGARET TRAIL	OSPREY LANE	HUMMINGBIRD LANE	600	CO	72.9	68,910	919
STP96	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	450	CO	86.98	61,414	819
STP2181	HICKORY LANE	ORIOLE LANE	TANAGER PLACE	750	CO	110.4	142,319	1,898
STP698	MARGARET STREET	PRINCE ALBERT STREET	SOUTH END	525	VC	92.81	84,955	1,133
STP2536	STYLES DRIVE	WEIR CRESCENT	SUGAR BUSH PATH	675	CO	106.3	111,606	1,488
STP157	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	300	PVC	75.7	46,659	622
STP1072	MILLER STREET	NOLAN STREET	REDAN STREET	375	VC	51.8	33,167	442
STP1436	RIVERBANK DRIVE	CRANBERRY COURT	END	450	PVC	42	29,655	395
STP295	MANOR ROAD	WEST END	RICE ROAD	900	CO	48.77	81,098	1,081
STP330	LEXINGTON COURT	HIGHVIEW DRIVE	END	300	PVC	83.2	51,282	684
STP2069	CHESTNUT STREET	ROSS STREET	FIFTH AVENUE	300	PVC	16.4	10,108	135
STP1555	BROOKSIDE DRIVE	MEADOWVALE DRIVE	MEADOWVALE DRIVE	600	CO	80.2	75,810	1,011
STP584	KAINS STREET	FLORA STREET	YARWOOD STREET	1500	CO	88.85	223,459	2,979
STP943	BONNIE PLACE	STOKES ROAD	STOKES ROAD	200	CO	42.97	26,485	353
STP666	BURWELL ROAD	DONKER DRIVE	DENNIS ROAD	675	CO	70.3	73,809	984
STP655	PONSFORD PLACE	BURWELL ROAD	BURWELL ROAD	375	PVC	22.8	14,599	195
STP55	EASEMENT	ALDBOROUGH AVENUE	DUNWICH DRIVE	750	VC	73.9	95,266	1,270
STP1502	THIRD AVENUE	WELLINGTON STREET	NORTH END	900	PVC	43	71,503	953
STP2609	REDHAVEN LANE	AUBURN DRIVE	END	525	CO	86.2	78,905	1,052
STP2155	WELLINGTON STREET	ELGIN STREET	HINCKS STREET	750	CO	100	128,912	1,719
STP2155	WELLINGTON STREET	HINCKS STREET	SOUTHWICK STREET	750	CO	100	128,912	1,719
STP307	FOREST AVENUE	DAUGHARTY DRIVE	FAIRVIEW AVENUE	600	CO	98.76	93,355	1,245

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1269	CURTIS STREET	NEW STREET	ST. GEORGE STREET	300	VC	26.06	16,063	214
STP768	BURWELL ROAD	BENNETT PLACE	SOUTH EDGEWARE ROAD	825	CO	81.23	115,644	1,542
STP219	ELM STREET	MORRISON DRIVE	PULLEN AVENUE	1500	VC	132.74	333,843	4,451
STP219	ELM STREET	HOLLAND AVENUE	MORRISON DRIVE	1500	VC	132.74	333,843	4,451
STP78	ALDBOROUGH AVENUE	FAIRVIEW AVENUE	PARISH STREET	300	CO	55.81	34,399	459
STP366	HIGHVIEW DRIVE	FARMINGTON DRIVE	PALMER COURT	1200	CO	70.8	147,368	1,965
STP1080	JOYCE STREET	PATRICIA STREET	MCLACHLIN PLACE	375	CO	77.6	49,686	662
STP199	ALDBOROUGH AVENUE	SPARTA STREET	SPARTA STREET	525	VC	5.2	4,760	63
STP1086	METCALFE STREET	TALBOT STREET	CENTRE STREET	300	VC	33.53	20,667	276
STP2080	SHAW VALLEY DRIVE	OAKMONT STREET	PEBBLE BEACH COURT	1050	CO	82	160,873	2,145
STP565	SCOTT STREET	JACKSON STREET	PENWARDEN STREET	825	VC	63.09	89,819	1,198
STP174	CHESTNUT STREET	TREVITHICK TERRACE	CAVANAUGH DRIVE	300	VC	40.7	25,086	334
STP2223	OAKMONT STREET	SHAW VALLEY DRIVE	TURNBERRY COURT	975	CO	53.7	98,930	1,319
STP1428	SHAW VALLEY DRIVE	AUGUSTA CRESCENT	OAKMONT STREET	750	CO	88.6	114,216	1,523
STP864	LUTON CRESCENT	MCLARTY DRIVE	ELM STREET	900	CO	55.02	91,491	1,220
STP1367	MCLACHLIN PLACE	PATRICIA STREET	JOYCE STREET	375	CO	51.21	32,789	437
STP450	WELLINGTON STREET	SECOND AVENUE	FIRST AVENUE	675	CO	13.3	13,964	186
STP2112	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	300	PVC	65.4	40,310	537
STP1002	SAUVE AVENUE	SCHREYER DRIVE	HARRINGTON CRESCENT	675	CO	35.2	36,957	493
STP2100	EASEMENT	SWM17	OLD COURSE ROAD	900	CO	32.8	54,542	727
STP573	SCOTT STREET	HIAWATHA STREET	MONDAMIN STREET	575	VC	44.2	41,781	557
STP2057	TALBOT STREET	MANOR ROAD	CENTENNIAL AVENUE	525	CO	101.5	92,910	1,239
STP1954	OSPREY LANE	HUMMINGBIRD LANE	CUL-DE-SAC	375	PVC	110	70,432	939
STP1490	THIRD AVENUE	WELLINGTON STREET	NORTH END	600	PVC	17	16,070	214
STP1516	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	1050	CO	67.1	131,641	1,755
STP2310	FIRST AVENUE	TALBOT STREET	STEELE STREET	975	CO	81.7	150,513	2,007
STP443	WELLINGTON STREET	SECOND AVENUE	FIRST AVENUE	750	CO	24.12	31,094	415
STP195	ASPEN AVENUE	FOREST AVENUE	CHESTNUT STREET	300	CO	14.94	9,209	123
STP22	FAIRVIEW AVENUE	AIREY AVENUE	RAVEN AVENUE	900	CO	71.63	119,111	1,588
STP14	ALDBOROUGH AVENUE	MASSEY DRIVE	LEGER AVENUE	525	CO	84.73	77,559	1,034
STP2166	ELGIN STREET	ST. ANNE'S PLACE	WELLINGTON STREET	600	CO	62.2	58,796	784
STP2592	ELM STREET	PARKVIEW DRIVE	FIFTH AVENUE	375	PVC	57.7	36,945	493
STP1247	WINDEMERE PLACE	HIGHVIEW DRIVE	END	750	CO	99	127,623	1,702
STP1494	THIRD AVENUE	WELLINGTON STREET	NORTH END	375	PVC	19	12,165	162
STP842	FIRST AVENUE	ELM STREET	MANDEVILLE ROAD	600	CO	72.24	68,286	910
STP423	ROSETHORN COURT	WELLINGTON STREET	RODNEY CRESCENT	675	CO	100.7	105,727	1,410
STP95	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	450	VC	18.13	12,801	171
STP2143	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	300	PVC	32.2	19,847	265
STP338	WELLINGTON STREET	FAIRVIEW AVENUE	HIGHVIEW DRIVE	2100	CO	23.77	120,904	1,612
STP305	ASPEN AVENUE	FOREST AVENUE	CHESTNUT STREET	525	CO	129.24	118,302	1,577
STP1049	HAMMOND STREET	BALACLAVA STREET	INKERMAN STREET	825	CO	77.72	110,647	1,475
STP2110	EASEMENT	SWM17	OLD COURSE ROAD	900	CO	27.2	45,230	603
STP612	CONFEDERATION DRIVE	LOCKE AVENUE	NORTHWOOD PLACE	525	CO	89.31	81,751	1,090
STP309	FOREST AVENUE	ASPEN AVENUE	HIGHVIEW DRIVE	600	CO	69.49	65,687	876
STP1279	TALBOT STREET	PEARL STREET	EAST STREET	450	CO	33.3	23,512	313
STP788	WOODWORTH AVENUE	EDWARD STREET	REDAN STREET	300	VC	27.43	16,907	225
STP1898	BUTLER DRIVE	LAWRENCE AVENUE	LAWRENCE AVENUE	575	VC	47.658	45,050	601
STP51	AIREY AVENUE	DUNWICH DRIVE	KER STREET	450	CO	122.22	86,296	1,151

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP919	MANOR ROAD	ERINLEA DRIVE	HIGHVIEW DRIVE	525	CO	49.68	45,475	606
STP765	JOYCE STREET	HIGHWAY #3 BYPASS	PATRICIA STREET	525	CO	95.1	87,051	1,161
STP1298	MCGREGOR COURT	END	AVON ROAD	200	PVC	84	51,775	690
STP974	ERINLEA DRIVE	CRESTWOOD COURT	MANOR ROAD	450	CO	14.33	10,118	135
STP1220	HIGHVIEW DRIVE	MANOR ROAD	VANBUSKIRK DRIVE	825	CO	61.87	88,082	1,174
STP1601	BAILEY AVENUE	REDTAIL COURT	KANTOR COURT	300	PVC	96.6	59,541	794
STP105	BUTLER DRIVE	LAWRENCE AVENUE	LAWRENCE AVENUE	525	CO	94.76	86,740	1,157
STP790	WOODWORTH AVENUE	EDWARD STREET	REDAN STREET	300	VC	79.25	48,847	651
STP1139	TALBOT STREET	MANITOBA STREET	ALMA STREET	900	CO	50	83,143	1,109
STP64	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	900	CO	26.82	44,598	595
STP635	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	750	CO	28.35	36,546	487
STP202	FAIRVIEW AVENUE	CHESTNUT STREET	ELM STREET	900	CO	96.62	160,666	2,142
STP1517	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	1050	CO	70.7	138,704	1,849
STP2543	SUGAR BUSH PATH	STYLES DRIVE	END	450	CO	73.5	51,896	692
STP1617	BARRETT CRESCENT	COLEMAN COURT	SOUTHGATE PARKWAY	450	PVC	70.4	49,707	663
STP1496	THIRD AVENUE	WELLINGTON STREET	NORTH END	450	PVC	41.5	29,302	391
STP2623	CHARTER CREEK COURT	PEACH TREE BOULEVARD	END	300	PVC	95	58,555	781
STP1438	RIVERBANK DRIVE	CRANBERRY COURT	END	600	CO	46.2	43,671	582
STP217	ELM STREET	FIRST AVENUE	HOLLAND AVENUE	300	VC	23.77	14,651	195
STP1207	SCHREYER DRIVE	AXFORD PARKWAY	SAUVE AVENUE	675	CO	46.8	49,136	655
STP1594	KENSINGTON COURT	PENHALE AVENUE	CUL-DE-SAC	300	PVC	68.3	42,098	561
STP2318	HUGHES STREET	BARWICK STREET	WOLFE STREET	675	CO	12.9	13,544	181
STP1074	MONTCALM STREET	HUGHES STREET	EAST END	200	VC	116.33	71,702	956
STP2420	BIRCHALL LANE	BENJAMIN PARKWAY	END	375	PVC	65.9	42,195	563
STP2551	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	525	CO	85.9	78,630	1,048
STP1338	ELGIN STREET	TALBOT STREET	CENTRE STREET	300	CO	34.7	21,388	285
STP623	LAKEVIEW CIRCLE	CONFEDERATION DRIVE	MACKENZIE PLACE	300	CO	60.05	37,013	494
STP1048	INKERMAN STREET	PATRICIA STREET	JOHNSON PLACE	525	CO	24.38	22,317	298
STP1553	MEADOWVALE DRIVE	BROOKSIDE DRIVE	BROOKSIDE DRIVE	600	CO	37.1	35,069	468
STP207	FIRST AVENUE	ST. JOSEPH STREET	ENGLEWOOD STREET	750	CO	25.3	32,615	435
STP1296	EASEMENT	AVON ROAD	BURWELL ROAD	575	VC	7.35	6,948	93
SPT2115	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	600	CO	72.1	68,154	909
STP993	MULBERRY LANE	BLUE HERON PLACE	END	300	PVC	82.8	51,035	680
STP2494	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	525	CO	73	66,822	891
STP2494	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	2.34	CO	73	44,995	600
STP1099	METCALFE STREET	WELLINGTON STREET	GLADSTONE AVENUE	750	VC	91.74	118,264	1,577
STP2252	CENTRE STREET	MILL STREET	ROSS STREET	375	PVC	40.7	26,060	347
STP1001	SAUVE AVENUE	SCHREYER DRIVE	HARRINGTON CRESCENT	675	CO	47.32	49,682	662
STP587	KAINS STREET	ST. CATHARINE STREET	STATION STREET	1675	CO	14.4	48,272	644
STP1226	FIRST AVENUE	REDAN STREET	TALBOT STREET	300	VC	106.68	65,754	877
STP1117	HINCKS STREET	CENTRE STREET	ELIZABETH STREET	375	VC	87.86	56,256	750
STP1868	CRUISE STREET	WEST END	OLIVER STREET	300	PVC	49.92	30,769	410
STP2205	EMPIRE PARKWAY	PEACH TREE BOULEVARD	END	250	PVC	14.8	9,122	122
STP1160	MOORE STREET	AMELIA STREET	WELLINGTON STREET	600	CO	107.1	101,238	1,350
STP373	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	200	PVC	16.7	10,293	137
STP1747	FOREST AVENUE	SECOND AVENUE	FIRST AVENUE	900	CO	12.75	21,202	283
STP1275	TALBOT STREET	ALEXANDRIA AVENUE	FIRST AVENUE	575	VC	96.14	90,878	1,212
STP1275	TALBOT STREET	FIRST AVENUE	PARK AVENUE	575	VC	96.14	90,878	1,212

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1691	PEAR TREE AVENUE	PEACH TREE BOULEVARD	HONEY BEND	250	PVC	53.1	32,729	436
STP1776	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	900	CO	52.36	87,068	1,161
STP1710	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	600	CO	27.2	25,711	343
STP2311	FIRST AVENUE	TALBOT STREET	STEELE STREET	1350	CO	127.8	298,492	3,980
STP2415	BENJAMIN PARKWAY	MILLSTONE AVENUE	BIRCHALL LANE	1650	CO	88.7	297,342	3,965
STP2119	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	525	CO	9	8,238	110
STP1952	ALDBOROUGH AVENUE	GLANWORTH AVENUE	AIREY AVENUE	575	VC	46.715	44,158	589
STP2163	RUSSET LANE	PEACH TREE BOULEVARD	END	525	CO	110	100,690	1,343
STP1311	EASEMENT	BALACLAVA STREET	INKERMAN STREET	825	CO	8.84	12,585	168
STP2523	OXFORD TERRACE	RENAISSANCE DRIVE	AUBURN DRIVE	600	CO	96.1	90,840	1,211
STP275	CHESTNUT STREET	CARRIE CRESCENT	COOK CRESCENT	975	CO	91.5	168,567	2,248
STP781	MONTCALM STREET	WEST END	HUGHES STREET	250	VC	132.89	81,909	1,092
STP781	MONTCALM STREET	WEST END	HUGHES STREET	250	VC	132.89	81,909	1,092
STP781	MONTCALM STREET	WEST END	HUGHES STREET	250	VC	132.89	81,909	1,092
STP781	MONTCALM STREET	WEST END	HUGHES STREET	250	VC	132.89	81,909	1,092
STP1759	SOUTH EDGEWARE ROAD	FIRST AVENUE	FLEX-O-LITE ROAD	525	PVC	104.36	95,528	1,274
STP2486	ROYAL DORNOCH DRIVE	VALDERRAMA LANE	MUIRFIELD DRIVE	750	CO	22.4	28,876	385
STP2486	ROYAL DORNOCH DRIVE	VALDERRAMA LANE	MUIRFIELD DRIVE	3.11	CO	22.4	13,807	184
STP1709	WOODWORTH CRESCENT	DALEWOOD DRIVE	SOUTH EDGEWARE ROAD	450	CO	38.3	27,042	361
STP1916	AIREY AVENUE	KER STREET	PARISH STREET	250	CO	49.073	30,247	403
STP1088	WILLIAM STREET	TALBOT STREET	CENTRE STREET	600	CO	90	85,074	1,134
STP1933	EASEMENT	AVON ROAD	BURWELL ROAD	250	PVC	54	33,284	444
STP259	STOKES ROAD	BONNIE PLACE	CHESTNUT STREET	1500	CO	132.8	333,994	4,453
STP2013	PINE VALLEY DRIVE	WESTLAKE DRIVE	DEERFIELD COURT	750	CO	66.3	85,468	1,140
STP1961	HUMMINGBIRD LANE	MOURNING DOVE LANE	KINGFISHER COURT	300	CO	52.1	32,113	428
STP1211	ROSS STREET	MCINTYRE STREET	FOREST AVENUE	1200	CO	68.8	143,205	1,909
STP2248	ROSS STREET	CENTRE STREET	JONAS STREET	525	CO	110.6	101,240	1,350
STP564	SCOTT STREET	PENWARDEN STREET	EAST STREET	750	VC	61.26	78,971	1,053
STP1969	LAWRENCE AVENUE	HARVEST COURT	PEACH TREE BOULEVARD	825	CO	68.5	97,521	1,300
STP153	FANJOY DRIVE	OLDEWOOD CRESCENT	OLDEWOOD CRESCENT	450	CO	111.4	78,656	1,049
STP2560	MYRTLE STREET	ROSS STREET	SMITH AVENUE	525	CO	93.9	85,953	1,146
STP2190	BRIDLE PATH	PEACH TREE BOULEVARD	END	450	CO	91.9	64,888	865
STP270	BONNIE PLACE	STOKES ROAD	STOKES ROAD	600	CO	64.4	60,875	812
STP574	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	1800	VC	156.97	610,679	8,142
STP929	NEAL AVENUE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	450	CO	12.3	8,685	116
STP2640	CENTRE STREET	WHITE STREET	PRINCESS AVENUE	375	PVC	79.1	50,647	675
STP1504	HAGERMAN CRESCENT	WEST END	FAITH BOULEVARD	525	CO	83.7	76,616	1,022
STP1024	BURWELL ROAD	COTTONWOOD DRIVE	GREENWAY BOULEVARD	1200	CO	114.7	238,744	3,183
STP2144	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	450	CO	72.1	50,907	679
STP2372	OAKMONT STREET	DORAL COURT	GLENWOOD AVENUE	675	CO	45	47,246	630
STP2397	CHURCHILL CRESCENT	MEEHAN STREET	DUNKIRK DRIVE	800	CO	80.4	133,695	1,783
STP2134	HAMPSTEAD COURT	SOUTHGATE PARKWAY	END	300	PVC	74.4	45,858	611
STP1659	MOURNING DOVE LANE	SANDPIPER PLACE	MONARCH COURT	450	CO	89.6	63,264	844
STP1670	MANOR ROAD	HIGHVIEW DRIVE	WELLINGTON STREET	300	PVC	30	18,491	247
STP1243	ROSETHORN COURT	SIFTON DRIVE	END	600	CO	46.4	43,860	585
STP959	ELIZABETH STREET	WHITE STREET	PRINCESS AVENUE	300	VC	105.16	64,817	864
STP368	HIGHVIEW DRIVE	PALMER COURT	MANOR ROAD	375	CO	47	30,093	401
STP898	CHESTNUT STREET	ASPEN AVENUE	HIGHVIEW DRIVE	450	CO	51.82	36,588	488

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP566	SCOTT STREET	MARY STREET	JACKSON STREET	825	VC	58.83	83,754	1,117
STP992	BLUE HERON PLACE	LAKE MARGARET TRAIL	MULBERRY LANE	450	CO	91	64,252	857
STP2016	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	300	PVC	52.7	32,483	433
STP297	MANOR ROAD	RICE ROAD	WELLINGTON STREET	300	PVC	64.1	39,509	527
STP1825	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	HARPER ROAD	375	PVC	48.8	31,246	417
STP1109	PARK AVENUE	CHESTNUT STREET	MARY BUCKE STREET	600	VC	36.58	34,578	461
STP1158	FOREST AVENUE	ROSS STREET	SMITH AVENUE	600	CO	11	10,398	139
STP1768	EDWARD STREET	WOODWORTH AVENUE	FIRST AVENUE	1500	CO	6.1	15,342	205
STP2580	ELM STREET	PARKSIDE DRIVE	ELMINA STREET	600	CO	110.4	104,357	1,391
STP2342	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	300	PVC	45	27,737	370
STP1382	REDAN STREET	ALEXANDRIA AVENUE	FIRST AVENUE	450	CO	14.94	10,549	141
STP1293	CONFEDERATION DRIVE	STIRLING CRESCENT	STIRLING CRESCENT	600	CO	65.53	61,943	826
STP9	RAVEN AVENUE	DAVID DRIVE	DYER STREET	1050	CO	59.59	116,908	1,559
STP1790	FARLEY PLACE	STANLEY STREET	SOUTH END	375	PVC	67.2	43,027	574
STP490	ERIE STREET	SECOND AVENUE	FIRST AVENUE	1350	CO	30.5	71,236	950
STP736	TALBOT HILL	WOODLAND ROAD	STANLEY STREET	750	CO	25	32,228	430
STP2156	WELLINGTON STREET	HINCKS STREET	SOUTHWICK STREET	675	CO	100	104,992	1,400
STP1055	EDWARD STREET	WOODWORTH AVENUE	FIRST AVENUE	575	VC	208.27	196,871	2,625
STP1664	MONARCH COURT	MOURNING DOVE LANE	WEST END	300	PVC	64.7	39,879	532
STP63	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	900	CO	42.98	71,470	953
STP2614	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	300	PVC	88.6	54,610	728
STP462	FAIRVIEW AVENUE	WELLINGTON STREET	FOREST AVENUE	675	CO	60.87	63,908	852
STP462	FAIRVIEW AVENUE	STEELE STREET	WELLINGTON STREET	675	CO	60.87	63,908	852
STP1546	EDWARD STREET	MANITOBA STREET	ALMA STREET	525	VC	9.47	8,669	116
STP2196	DEERFIELD COURT	PINE VALLEY DRIVE	END	600	CO	57.8	54,636	728
STP68	ALDBOROUGH AVENUE	PULLEN AVENUE	HOLLAND AVENUE	750	CO	34.14	44,010	587
STP733	TALBOT HILL	WOODLAND ROAD	STANLEY STREET	1050	CO	60.6	118,889	1,585
STP1763	SOUTH EDGEWARE ROAD	CONFEDERATION DRIVE	CONFEDERATION DRIVE	375	PVC	104.36	66,820	891
STP1159	WELLINGTON STREET	ROSS STREET	LYDIA STREET	375	CO	67.7	43,347	578
STP1596	CHAMBERLAIN COURT	PENHALE AVENUE	CUL-DE-SAC	375	PVC	72.3	46,293	617
STP2093	CARNOUSTIE COURT	PEBBLE BEACH COURT	END	300	CO	55.8	34,393	459
STP878	TAYLOR CRESCENT	ELM STREET	WEST END	250	CO	9.31	5,738	77
STP2635	WHITE STREET	CENTRE STREET	ELIZABETH STREET	525	CO	92.3	84,488	1,127
STP2146	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	525	CO	76.8	70,300	937
STP983	WARBLER HEIGHTS	AXFORD PARKWAY	HUMMINGBIRD LANE	450	CO	59.7	42,152	562
STP1063	REDAN STREET	INKERMAN STREET	NELSON STREET	1050	CO	79.55	156,067	2,081
STP2140	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	600	CO	37.2	35,164	469
STP2426	BENJAMIN PARKWAY	SOUTHDALE LINE	MILLSTONE AVENUE	450	CO	33.4	23,583	314
STP870	ELM STREET	TAYLOR CRESCENT	CHANT STREET	1200	CO	51.52	107,237	1,430
STP633	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	375	CO	79.86	51,133	682
STP12	RAVEN AVENUE	PORTER PLACE	PENHALE AVENUE	900	CO	91.74	152,551	2,034
STP614	WARREN CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	300	CO	71.63	44,150	589
STP872	ELM STREET	FAIRVIEW AVENUE	LUTON CRESCENT	1200	CO	57.8	120,309	1,604
STP872	ELM STREET	LUTON CRESCENT	TAYLOR CRESCENT	1200	CO	57.8	120,309	1,604
STP1119	HINCKS STREET	MITCHELL STREET	WELLINGTON STREET	750	VC	96.16	123,962	1,653
STP1682	CHERRY BLOSSUM LANE	PEACH TREE BOULEVARD	WEST END	1200	CO	43.7	90,960	1,213
STP1682	CHERRY BLOSSUM LANE	PEACH TREE BOULEVARD	WEST END	1200	CO	43.7	90,960	1,213
STP1118	HINCKS STREET	ELIZABETH STREET	MITCHELL STREET	750	VC	88.24	113,752	1,517

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1329	ELM STREET	SUNSET DRIVE	WILSON AVENUE	450	CO	67.8	47,871	638
STP2593	ELM STREET	FIFTH AVENUE	MANDEVILLE ROAD	300	PVC	50	30,818	411
STP40	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	375	CO	77.42	49,571	661
STP293	FOREST AVENUE	ASPEN AVENUE	HIGHVIEW DRIVE	600	CO	68.28	64,543	861
STP644	LOCKE AVENUE	PINEHURST PLACE	ROSEMOUNT CRESCENT	675	CO	52.43	55,047	734
STP254	CHESTNUT STREET	ERINLEA DRIVE	STOKES ROAD	375	CO	46.33	29,665	396
STP1827	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	675	CO	67.8	71,184	949
STP989	LAKE MARGARET TRAIL	BEECHWOOD CIRCLE	HICKORY LANE	600	CO	20.63	19,501	260
STP956	PARK AVENUE	MARY BUCKE STREET	KOPIC COURT	1050	CO	62.18	121,989	1,627
STP2386	EASEMENT	22 DORAL COURT	DORAL COURT	525	CO	22.3	20,413	272
STP2478	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	250	PVC	8.5	5,239	70
STP1228	FIRST AVENUE	EDWARD STREET	REDAN STREET	750	VC	93.88	121,022	1,614
STP1395	SOUTHWICK STREET	TALBOT STREET	CENTRE STREET	525	CO	9.5	8,696	116
STP541	TALBOT STREET	PEARL STREET	EAST STREET	525	CO	78.33	71,701	956
STP440	WELLINGTON STREET	THIRD AVENUE	SECOND AVENUE	825	CO	116.3	165,572	2,208
STP1084	EDWARD STREET	ALMA STREET	BALACLAVA STREET	575	VC	57.91	54,740	730
STP2090	PEBBLE BEACH COURT	CARNOUSTIE COURT	SHAW VALLEY DRIVE	1050	CO	99.3	194,813	2,598
STP1967	MAJESTIC COURT	LAWRENCE AVENUE	END	675	CO	96.5	101,317	1,351
STP2610	REDHAVEN LANE	AUBURN DRIVE	END	300	PVC	45.8	28,230	376
STP1179	SUNSET DRIVE	ELM STREET	CHESTER STREET	450	VC	248.63	175,549	2,341
STP1618	BALACLAVA STREET	EDWARD STREET	HAMMOND STREET	575	VC	61.31	57,954	773
STP526	NAAMA STREET	WAWA STREET	ROSS STREET	300	VC	7.32	4,512	60
STP2473	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	250	PVC	32.7	20,155	269
STP2492	MUIRFIELD DRIVE	ROYAL DORNOCH DRIVE	ROYAL DORNOCH DRIVE	525	CO	44	40,276	537
STP349	STOKES ROAD	BONNIE PLACE	BONNIE PLACE	525	CO	91	83,298	1,111
STP674	BURWELL ROAD	MCGREGOR COURT	THORMAN TERRACE	1050	CO	42.5	83,379	1,112
STP154	FANJOY DRIVE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	900	CO	78.7	130,868	1,745
STP972	ERINLEA DRIVE	CRESTWOOD COURT	MANOR ROAD	450	CO	72.24	51,006	680
STP353	HITCH CRESCENT	RICE ROAD	RICE ROAD	375	CO	17.1	10,949	146
STP1245	HIGHVIEW DRIVE	WELLINGTON STREET	WINDEMERE PLACE	300	PVC	73	44,995	600
STP1869	OLIVER STREET	COLLEGE STREET	CRUISE STREET	375	PVC	43.51	27,859	371
STP86	ALDBOROUGH AVENUE	SPARTA STREET	PULLEN AVENUE	675	VC	37.8	39,687	529
STP2429	PEACH TREE BOULEVARD	CAROLINA CRESCENT	FOX HOLLOW COURT	300	PVC	94.2	58,062	774
STP283	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	675	CO	34.7	36,432	486
STP2375	DORAL COURT	ST. ANDREWS DRIVE	END	450	CO	64	45,188	603
STP832	FIRST AVENUE	TALBOT STREET	STEELE STREET	1500	CO	51.82	130,328	1,738
STP1361	JOYCE STREET	PATRICIA STREET	MCLACHLIN PLACE	450	CO	60	42,364	565
STP2287	CASO CROSSING	WELLINGTON STREET	TALBOT STREET	250	PVC	33.5	20,648	275
STP803	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	1050	CO	80.3	157,538	2,101
STP631	STIRLING CRESCENT	CONFEDERATION DRIVE	CONFEDERATION DRIVE	300	CO	87.48	53,920	719
STP323	DAUGHARTY DRIVE	FOREST AVENUE	LAURA AVENUE	450	CO	5.49	3,876	52
STP1046	LINDEN LANE	COTTONWOOD DRIVE	END	300	PVC	92	56,706	756
STP1364	MARIAM STREET	WEST END	YARWOOD STREET	300	PVC	28	17,258	230
STP600	MANITOBA STREET	TALBOT STREET	CELESTINE STREET	375	CO	36.1	23,114	308
STP1276	TALBOT STREET	FIRST AVENUE	PARK AVENUE	575	VC	67.19	63,512	847
STP773	BURWELL ROAD	SANDERS COURT	MCGREGOR COURT	450	CO	76.35	53,908	719
STP205	FIRST AVENUE	SIMCOE STREET	ELM STREET	750	CO	87.78	113,159	1,509
STP1365	MARIAM STREET	YARWOOD STREET	HUGHES STREET	375	PVC	33.4	21,386	285

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP57	DUNWICH DRIVE	HOWARD PLACE	AIREY AVENUE	375	CO	74.28	47,561	634
STP1145	DRAKE STREET	STANLEY STREET	ISABEL STREET	300	VC	49.38	30,436	406
STP1899	BUTLER DRIVE	LAWRENCE AVENUE	LAWRENCE AVENUE	575	VC	45.987	43,470	580
STP2231	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	600	CO	19.4	18,338	245
STP1291	HORTON STREET	CELESTINE STREET	KAINS STREET	750	CO	87.2	112,411	1,499
STP246	CARRIE CRESCENT	CHESTNUT STREET	CHESTNUT STREET	450	CO	46	32,479	433
STP2451	FLORA STREET	KAINS STREET	BALDWIN STREET	450	PVC	93.9	66,300	884
STP218	ELM STREET	PULLEN AVENUE	PARK AVENUE	1500	VC	136.25	342,671	4,569
STP2616	AMBROSIA PATH	PEAR TREE AVENUE	RENAISSANCE DRIVE	375	PVC	93.1	59,611	795
STP2390	GLENWOOD AVENUE	TYANDAGA STREET	LYNDALE STREET	300	CO	20.5	12,636	168
STP173	CAVANAUGH DRIVE	TREVITHICK TERRACE	CHESTNUT STREET	750	CO	126.8	163,460	2,179
STP2341	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	375	PVC	97.9	62,684	836
STP858	MCLARTY DRIVE	LUTON CRESCENT	LUTON CRESCENT	250	VC	47.87	29,505	393
STP858	ELM STREET	SUNSET DRIVE	WILSON AVENUE	250	VC	47.87	29,505	393
STP2061	MANOR ROAD	TALBOT STREET	GOLDING PLACE	600	CO	27.4	25,900	345
STP1482	SANDERS COURT	BURWELL ROAD	END	300	PVC	51.57	31,786	424
STP141	HIGHVIEW DRIVE	PADDON STREET	POL COURT	375	VC	64.31	41,177	549
STP2233	ST. ANDREWS DRIVE	OAKMONT STREET	DORAL COURT	300	CO	50.9	31,373	418
STP494	FAIRVIEW AVENUE	SINCLAIR AVENUE	WAREHOUSE STREET	300	VC	54.86	33,814	451
STP2599	ELM STREET	MEEHAN STREET	WOOD STREET	600	CO	80	75,621	1,008
STP2591	ELM STREET	ELMINA STREET	PARKVIEW DRIVE	450	PVC	103.8	73,290	977
STP2537	STYLES DRIVE	SUGAR BUSH PATH	FOXTAIL LANE	825	CO	51.5	73,319	978
STP700	METCALFE STREET	CENTRE STREET	ST. ANNE'S PLACE	375	VC	69.49	44,494	593
STP80	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	990	VC	117.92	231,343	3,085
STP39	DAVID DRIVE	RAVEN AVENUE	PENHALE AVENUE	450	CO	78.64	55,525	740
STP1949	WARBLER HEIGHTS	HUMMINGBIRD LANE	END	250	PVC	26.5	16,334	218
STP280	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	300	PVC	12.5	7,705	103
STP152	NEAL AVENUE	ELM STREET	OLDEWOOD CRESCENT	375	PVC	30.6	19,593	261
STP1253	WELLINGTON STREET	RICE ROAD	MANOR ROAD	900	CO	70.8	117,731	1,570
STP2607	ROYAL DORNOCH DRIVE	MUIRFIELD DRIVE	MUIRFIELD DRIVE	375	CO	69.2	44,308	591
STP1185	FIRST AVENUE	STEELE STREET	MARY STREET EAST	900	VC	31.16	51,815	691
STP1097	METCALFE STREET	ST. ANNE'S PLACE	WELLINGTON STREET	675	VC	137.46	144,322	1,924
STP1378	MORRISON DRIVE	ST. JOSEPH STREET	ELM STREET	600	CO	10.2	9,642	129
STP1470	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	300	PVC	21.34	13,153	175
STP328	FALCONRIDGE COURT	HIGHVIEW DRIVE	END	300	PVC	93	57,322	764
STP1270	TALBOT STREET	HORTON STREET	MANITOBA STREET	1200	CO	85.2	177,341	2,365
STP678	MCGREGOR COURT	AVON ROAD	BURWELL ROAD	525	PVC	78.5	71,856	958
STP586	KAINS STREET	STATION STREET	JOHN STREET	1325	CO	55.71	130,117	1,735
STP1512	MARY BUCKE STREET	TREVITHICK TERRACE	PARK AVENUE	450	PVC	41.6	29,372	392
STP87	ALDBOROUGH AVENUE	HOLLAND AVENUE	GLANWORTH AVENUE	450	VC	89.31	63,059	841
STP921	VANBUSKIRK DRIVE	MCCULLY DRIVE	MCCULLY DRIVE	450	CO	78.24	55,243	737
STP269	BONNIE PLACE	STOKES ROAD	STOKES ROAD	600	CO	69.19	65,403	872
STP447	YARMOUTH ROAD	NORTH END	MICHIGAN BOULEVARD	750	CO	145.08	187,025	2,494
STP1958	HUMMINGBIRD LANE	KINGFISHER COURT	LAKE MARGARET TRAIL	300	PVC	63.3	39,016	520
STP1027	BURWELL ROAD	GREENWAY BOULEVARD	DENNIS ROAD	1050	CO	79.1	155,184	2,069
STP1203	AXFORD PARKWAY	FAIRVIEW AVENUE	MCGIBBON AVENUE	300	PVC	17.03	10,497	140
STP176	CHESTNUT STREET	PARK AVENUE	TREVITHICK TERRACE	525	CO	87.2	79,820	1,064
STP1647	WELLINGTON STREET	SMITH AVENUE	FIFTH AVENUE	675	CO	49.2	51,656	689

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2086	SHAW VALLEY DRIVE	OLD COURSE ROAD	END	825	CO	74.3	105,778	1,410
STP1155	REGENT STREET	EAST AVENUE	EAST END	675	CO	35.36	37,125	495
STP2321	CONNAUGHT STREET	STANLEY STREET	END	600	CO	26	24,577	328
STP358	HIGHVIEW DRIVE	RICKWOOD PLACE	RIPLEY LANE	1200	CO	55.3	115,105	1,535
STP1404	ROSS STREET	BARNES STREET	WELLINGTON STREET	575	VC	11.49	10,861	145
STP1846	STEELE STREET	FIRST AVENUE	PARK AVENUE	575	VC	15.013	14,191	189
STP1352	GOLDING PLACE	MANOR ROAD	EAST END	375	PVC	11	7,043	94
STP126	PAULSON COURT	VANBUSKIRK DRIVE	WEST END	600	CO	7.77	7,345	98
STP126	VANBUSKIRK DRIVE	MCCULLY DRIVE	PAULSON COURT	600	CO	7.77	7,345	98
STP1535	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	1200	CO	102.8	213,975	2,853
STP1919	DUNWICH DRIVE	HOWARD PLACE	AIREY AVENUE	250	CO	41.148	25,362	338
STP2048	WELLINGTON STREET	FIRST AVENUE	TALEQUAH STREET	825	PVC	33	46,981	626
STP156	OLDEWOOD CRESCENT	FANJOY DRIVE	FANJOY DRIVE	300	PVC	85.4	52,638	702
STP1640	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	900	CO	53.7	89,296	1,191
STP1003	SAUVE AVENUE	SCHREYER DRIVE	HARRINGTON CRESCENT	750	CO	91.8	118,341	1,578
STP888	FAIRVIEW AVENUE	WELLINGTON STREET	FOREST AVENUE	750	CO	97.9	126,205	1,683
STP726	MOORE STREET	WELLINGTON STREET	MCINTYRE STREET	575	VC	141.41	133,670	1,782
STP1344	HARWILL ROAD	BURWELL ROAD	SOUTH EDGEWARE ROAD	300	CO	93	57,322	764
STP1998	PINEHURST PLACE	LOCKE AVENUE	END	750	CO	10	12,891	172
STP1439	HAGERMAN CRESCENT	WEST END	FAITH BOULEVARD	450	CO	110.1	77,738	1,037
STP318	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	900	CO	77.72	129,238	1,723
STP910	HIGHVIEW DRIVE	MANOR ROAD	VANBUSKIRK DRIVE	375	CO	48.158	30,835	411
STP385	PALMER COURT	HIGHVIEW DRIVE	END	250	CO	32.2	19,847	265
STP2463	WEST PEARL STREET	ELYSIAN STREET	NORTH END	300	PVC	33.7	20,772	277
STP1946	LUTON CRESCENT	MCLARTY DRIVE	ELM STREET	375	CO	37.49	24,004	320
STP2412	INKERMAN STREET	EDWARD STREET	HIGHWAY #3 BYPASS	375	PVC	94.2	60,315	804
STP1864	SCOTT STREET	EAST STREET	PEARL STREET	525	PVC	48	43,938	586
STP2035	MANITOBA STREET	KAINS STREET	EDWARD STREET	525	CO	100	91,537	1,220
STP1944	LUTON CRESCENT	MCLARTY DRIVE	MCLARTY DRIVE	250	CO	44.501	27,429	366
STP642	LOCKE AVENUE	ROSEMOUNT CRESCENT	PINEHURST PLACE	525	CO	20.12	18,417	246
STP2074	CHESTNUT STREET	FIFTH AVENUE	THIRD AVENUE	600	PVC	18	17,015	227
STP789	REDAN STREET	NELSON STREET	WOODWORTH AVENUE	300	VC	83.21	51,288	684
STP789	REDAN STREET	INKERMAN STREET	NELSON STREET	300	VC	83.21	51,288	684
STP1833	HIGHBURY AVENUE	SOUTH EDGEWARE ROAD	EDGEWARE LINE	825	CO	6.5	9,254	123
STP2565	FOURTH AVENUE	MYRTLE STREET	LOCUST STREET	750	CO	12.4	15,985	213
STP930	NEAL AVENUE	OLDEWOOD CRESCENT	HIGHVIEW DRIVE	750	CO	22.1	28,489	380
STP18	VANIER PLACE	KER STREET	LEGER AVENUE	600	CO	88.7	83,845	1,118
STP208	FIRST AVENUE	ST. JOSEPH STREET	ENGLEWOOD STREET	750	CO	26.26	33,852	451
STP1994	PEACH TREE BOULEVARD	PEAR TREE AVENUE	BRIDLE PATH	600	CO	31.8	30,059	401
STP2099	EASEMENT	SWM17	OLD COURSE ROAD	900	CO	32.8	54,542	727
STP1777	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	900	CO	6.17	10,260	137
STP99	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	300	CO	11.13	6,860	91
STP2475	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	250	PVC	32.7	20,155	269
STP243	CHESTNUT STREET	MANOR ROAD	CARRIE CRESCENT	975	CO	85.1	156,777	2,090
STP427	HUNTINGTON TERRACE	WELLINGTON STREET	END	300	PVC	75.6	46,597	621
STP162	HIGHVIEW DRIVE	CHESTNUT STREET	COOK CRESCENT	675	CO	36.3	38,112	508
STP1574	GREENWAY BOULEVARD	HAWTHORN COURT	PINE VALLEY DRIVE	525	CO	111.7	102,247	1,363
STP1641	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	1200	CO	54.7	113,856	1,518

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP396	RICKWOOD PLACE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	250	PVC	45.4	27,983	373
STP914	MANOR ROAD	HIGHVIEW DRIVE	ELM STREET	525	CO	62.24	56,972	760
STP2007	WESTLAKE DRIVE	AMBLESIDE DRIVE	AMBLESIDE DRIVE	600	CO	89.3	84,412	1,125
STP1242	HIGHVIEW DRIVE	PALMER COURT	MANOR ROAD	1050	CO	47.2	92,600	1,235
STP1686	LAWRENCE AVENUE	HARVEST COURT	PEACH TREE BOULEVARD	825	CO	44.4	63,211	843
STP570	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	450	CO	3.96	2,796	37
STP570	MARY STREET	CURTIS STREET	SCOTT STREET	450	CO	3.96	2,796	37
STP818	EDWARD STREET	ALMA STREET	BALACLAVA STREET	575	VC	16.63	15,720	210
STP1102	ST. CATHARINE STREET	BEVERLEY STREET	MEDA STREET	575	VC	71.32	67,416	899
STP2019	CIRCLEWOOD DRIVE	63 CIRCLEWOOD DRIVE	ARROWWOOD LANE	525	CO	72.2	66,090	881
STP273	CHESTNUT STREET	HIGHVIEW DRIVE	COOK CRESCENT	825	CO	53.5	76,166	1,016
STP67	WELLINGTON STREET	SMITH AVENUE	FIFTH AVENUE	575	CO	102.88	97,249	1,297
STP561	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	375	VC	15.24	9,758	130
STP327	CHESTNUT STREET	HIGHVIEW DRIVE	COOK CRESCENT	825	CO	44.7	63,638	849
STP1440	HAGERMAN CRESCENT	WEST END	FAITH BOULEVARD	525	CO	83.7	76,616	1,022
STP545	TALBOT STREET	MARY STREET	SOUTHWICK STREET	825	CO	89	126,706	1,689
STP1071	MILLER STREET	NOLAN STREET	REDAN STREET	375	VC	15.8	10,117	135
STP1779	ANTRIM STREET	MONDAMIN STREET	ST. CATHARINE STREET	375	PVC	94.7	60,635	808
STP82	ALDBOROUGH AVENUE	PULLEN AVENUE	HOLLAND AVENUE	990	VC	10.75	21,090	281
STP124	TAYLOR CRESCENT	ELM STREET	WEST END	300	CO	40.39	24,895	332
STP52	AIREY AVENUE	KER STREET	PARISH STREET	375	CO	62.79	40,204	536
STP2312	FIRST AVENUE	TALBOT STREET	STEELE STREET	1200	CO	11.1	23,104	308
STP1883	STOKES ROAD	WELLINGTON STREET	BONNIE PLACE	300	PVC	65.436	40,333	538
STP1153	WILSON AVENUE	REGENT STREET	CHESTER STREET	300	CO	32	19,724	263
STP2452	FLORA STREET	KAINS STREET	BALDWIN STREET	375	PVC	96.9	62,044	827
STP2515	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	750	CO	26.4	34,033	454
STP2354	PEACH TREE BOULEVARD	CAROLINA CRESCENT	CAROLINA CRESCENT	900	CO	39.8	66,182	882
STP1716	PINE VALLEY DRIVE	CIRCLEWOOD DRIVE	ARROWWOOD LANE	975	CO	64.4	118,642	1,582
STP578	KAINS STREET	JOHN STREET	FLORA STREET	375	VC	78.49	50,256	670
STP2081	SHAW VALLEY DRIVE	PEBBLE BEACH COURT	OLD COURSE ROAD	300	CO	53.6	33,037	440
STP2396	CHURCHILL CRESCENT	MEEHAN STREET	DUNKIRK DRIVE	525	CO	56.9	52,084	694
STP193	CHESTNUT STREET	FAIRVIEW AVENUE	ASPEN AVENUE	825	CO	69.19	98,504	1,313
STP498	CHESTNUT STREET	FIRST AVENUE	HIGH STREET	675	CO	36.58	38,406	512
STP2301	GLADSTONE AVENUE	SOUTHWICK STREET	PRINCESS AVENUE	375	PVC	81.1	51,927	692
STP1259	WELLINGTON STREET	LYDIA STREET	SMITH AVENUE	450	CO	68.45	48,330	644
STP2009	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	675	CO	47.5	49,871	665
STP2451	WEIR CRESCENT	STYLES DRIVE	STYLES DRIVE	450	PVC	28.3	19,982	266
STP2559	MYRTLE STREET	ROSS STREET	SMITH AVENUE	100	PVC	100	61,637	822
STP1959	KINGFISHER COURT	HUMMINGBIRD LANE	CUL-DE-SAC	300	PVC	48.6	29,955	399
STP2108	OLD COURSE ROAD	VALDERRAMA LANE	ROYAL DORNOCH DRIVE	250	CO	44	27,120	362
STP851	FOREST AVENUE	PARK AVENUE	DAUGHARTY DRIVE	450	VC	18.29	12,914	172
STP1560	MEADOWVALE DRIVE	BROOKSIDE DRIVE	NORTH END	375	PVC	84.6	54,168	722
STP2150	WESTLAKE DRIVE	AMBLESIDE DRIVE	PINE VALLEY DRIVE	250	PVC	33.7	20,772	277
STP1822	SOUTH EDGEWARE ROAD	PROGRESS DRIVE	HARPER ROAD	375	PVC	95.2	60,955	813
STP1033	COTTONWOOD DRIVE	MAGNOLIA COURT	AMBERWOOD COURT	750	CO	36.9	47,568	634
STP470	FAIRVIEW AVENUE	STEELE STREET	WELLINGTON STREET	600	CO	11	10,398	139
STP101	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	375	CO	67.88	43,463	580
STP375	HIGHVIEW DRIVE	MANOR ROAD	SIFTON DRIVE	600	CO	51.2	48,398	645

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP809	SPARLING ROAD	SPACKMAN BOULEVARD	ANDERSON AVENUE	1050	CO	100.28	196,736	2,623
STP1550	BROOKSIDE DRIVE	MEADOWVALE DRIVE	MEADOWVALE DRIVE	675	CO	85.7	89,978	1,200
STP708	ELGIN STREET	ROSEBERY PLACE	DENISON AVENUE	300	CO	88.2	54,364	725
STP708	ELGIN STREET	DENISON AVENUE	REGENT STREET	300	CO	88.2	54,364	725
STP1172	THIRD AVENUE	MYRTLE STREET	LOCUST STREET	750	VC	114.3	147,346	1,965
STP480	ERIE STREET	FIRST AVENUE	TALEQUAH STREET	675	CO	45.72	48,002	640
STP480	ERIE STREET	SECOND AVENUE	FIRST AVENUE	675	CO	45.72	48,002	640
STP2574	HUGHES STREET	MARIAM STREET	BALDWIN STREET	300	PVC	39.6	24,408	325
STP2340	HONEY BEND	PEAR TREE AVENUE	PEAR TREE AVENUE	525	CO	100	91,537	1,220
STP1360	JOYCE STREET	PATRICIA STREET	MCLACHLIN PLACE	450	VC	47.24	33,355	445
STP671	BURWELL ROAD	PONSFORD PLACE	PONSFORD PLACE	900	CO	89.3	148,494	1,980
STP2204	EMPIRE PARKWAY	PEACH TREE BOULEVARD	END	300	PVC	10.5	6,472	86
STP1349	GOLDING PLACE	MANOR ROAD	EAST END	375	PVC	38.5	24,651	329
STP289	COOK CRESCENT	CHESTNUT STREET	HIGHVIEW DRIVE	375	PVC	78.7	50,391	672
STP1577	HAWTHORN COURT	GREENWAY BOULEVARD	END	450	PVC	74.3	52,461	699
STP550	TALBOT STREET	PRINCESS AVENUE	MOORE STREET	375	CO	35.97	23,031	307
STP2584	ELM STREET	PINAFORE PARK ENTRANCE	ELMINA STREET	600	CO	57.4	54,258	723
STP562	HIAWATHA STREET	OWAISSA STREET	SCOTT STREET	375	VC	76.31	48,860	651
STP29	MCLARTY DRIVE	LUTON CRESCENT	LUTON CRESCENT	375	CO	20.12	12,883	172
STP1655	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	900	CO	78.4	130,369	1,738
STP2582	ELM STREET	PARKSIDE DRIVE	PINAFORE PARK ENTRANCE	600	CO	82.6	78,079	1,041
STP756	FOURTH AVENUE	MYRTLE STREET	LOCUST STREET	600	VC	100.41	94,914	1,266
STP907	VANBUSKIRK DRIVE	HIGHVIEW DRIVE	MCCULLY DRIVE	675	CO	82.72	86,849	1,158
STP1701	JUNO DRIVE	CHESTNUT STREET	CHESTNUT STREET	825	CO	58.3	83,000	1,107
STP980	AXFORD PARKWAY	SCHREYER DRIVE	SAUVE AVENUE	300	PVC	38.5	23,730	316
STP1112	GLADSTONE AVENUE	ELGIN STREET	HINCKS STREET	1050	VC	102.72	201,523	2,687
STP59	DUNWICH DRIVE	AIREY AVENUE	HOWARD PLACE	375	CO	56.69	36,298	484
STP1037	MAGNOLIA COURT	COTTONWOOD DRIVE	END	300	PVC	103	63,486	846
STP363	HIGHVIEW DRIVE	FARMINGTON DRIVE	FARMINGTON DRIVE	1200	CO	100.2	208,563	2,781
STP1537	SAUVE AVENUE	HARRINGTON CRESCENT	BILL MARTYN PARKWAY	1200	CO	40	83,259	1,110
STP395	FARMINGTON DRIVE	HIGHVIEW DRIVE	HIGHVIEW DRIVE	375	CO	7	4,482	60
STP2006	AMBLESIDE DRIVE	WESTLAKE DRIVE	CARDINAL COURT	525	CO	36.9	33,777	450
STP1720	TAMARACK COURT	PINE VALLEY DRIVE	WEST END	450	PVC	29.3	20,688	276
STP1515	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	SAUVE AVENUE	575	CO	94.5	89,328	1,191
STP17	MASSEY DRIVE	MICHENER COURT	END	450	CO	73.15	51,649	689
STP1556	BROOKSIDE DRIVE	MEADOWVALE DRIVE	MEADOWVALE DRIVE	525	CO	31.5	28,834	384
STP314	FOREST AVENUE	FIRST AVENUE	PARK AVENUE	825	CO	83.52	118,905	1,585
STP2116	CARDINAL COURT	AMBLESIDE DRIVE	END	375	PVC	72.5	46,421	619
STP2347	PEAR TREE AVENUE	PEACH TREE BOULEVARD	HONEY BEND	250	CO	47.7	29,401	392
STP75	ALDBOROUGH AVENUE	PARISH STREET	SPARTA STREET	300	CO	56.02	34,529	460
STP2646	STANLEY STREET	ST. ANNE'S PLACE	WILLIAM STREET	525	CO	15.3	14,005	187
STP509	GLENBANNER STREET	SUNSET DRIVE	WILSON AVENUE	375	PVC	79.7	51,031	680
STP1028	BURWELL ROAD	DONKER DRIVE	DENNIS ROAD	750	CO	70.7	91,141	1,215
STP1732	ELMINA STREET	OAK STREET	HEMLOCK STREET	450	VC	51.67	36,482	486
STP1271	TALBOT STREET	HORTON STREET	MANITOBA STREET	1050	CO	52.3	102,606	1,368
STP797	BROCK STREET	HUGHES STREET	ALMA STREET	450	PVC	51.82	36,588	488

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2338	PEAR TREE AVENUE	PEACH TREE BOULEVARD	HONEY BEND	450	CO	49.5	34,950	466
STP1446	SOUTHGATE PARKWAY	FAIRVIEW AVENUE	FAITH BOULEVARD	1500	PVC	134.1	337,264	4,497
STP2513	RENAISSANCE DRIVE	ELM STREET	PEAR TREE AVENUE	675	CO	45.4	47,666	636
STP1689	PEAR TREE AVENUE	PEACH TREE BOULEVARD	HONEY BEND	250	PVC	33.5	20,648	275
STP1016	AXFORD PARKWAY	SAUVE AVENUE	WARBLER HEIGHTS	300	PVC	60.42	37,241	497
STP873	ELM STREET	FAIRVIEW AVENUE	LUTON CRESCENT	1200	CO	148.3	308,682	4,116
STP2366	ARBOR TRAIL	CAROLINA CRESCENT	END	300	PVC	22.2	13,683	182
STP2368	ARBOR TRAIL	CAROLINA CRESCENT	END	300	PVC	36.4	22,436	299
STP97	SPARTA STREET	ALDBOROUGH AVENUE	ALDBOROUGH AVENUE	375	CO	27.22	17,429	232
STP192	CHESTNUT STREET	ASPEN AVENUE	HIGHVIEW DRIVE	600	CO	106.38	100,558	1,341
STP192	CHESTNUT STREET	FAIRVIEW AVENUE	ASPEN AVENUE	600	CO	106.38	100,558	1,341
STP1912	LEGER AVENUE	MCGIBBON AVENUE	FAIRVIEW AVENUE	300	CO	37.49	23,108	308
STP2470	CORTLAND TERRACE	PEACH TREE BOULEVARD	END	375	PVC	98.9	63,324	844
STP1639	HUMMINGBIRD LANE	OSPREY LANE	MOURNING DOVE LANE	900	CO	64.9	107,920	1,439
STP2431	MELROSE COURT	PEACH TREE BOULEVARD	END	675	CO	71.7	75,279	1,004
STP1043	COTTONWOOD DRIVE	GOLDENROD COURT	LINDEN LANE	525	CO	111.8	102,338	1,365
STP421	ROSETHORN COURT	SIFTON DRIVE	END	900	CO	52.6	87,467	1,166
STP1417	LAKE MARGARET TRAIL	HICKORY LANE	SOUTHDALE LINE	750	CO	110	141,803	1,891
STP2399	DIEPPE DRIVE	CHURCHILL CRESCENT	CHURCHILL CRESCENT	375	PVC	26	16,647	222
STP669	BURWELL ROAD	DONKER DRIVE	DENNIS ROAD	600	CO	60.8	57,472	766
STP1548	BROOKSIDE DRIVE	BURWELL ROAD	MEADOWVALE DRIVE	825	CO	55.6	79,156	1,055
STP308	FOREST AVENUE	PARK AVENUE	DAUGHARTY DRIVE	675	CO	92.96	97,600	1,301
STP1810	NULL	NULL	NULL	300	PVC	19.2	11,834	158
STP697	NULL	NULL	NULL	300	VC	91.93	56,663	756
STP990	NULL	NULL	NULL	600	CO	98.46	93,071	1,241
STP2260	NULL	NULL	NULL	250	PVC	10	6,164	82
STP1583	NULL	NULL	NULL	300	PVC	45.3	27,921	372
STP1976	NULL	NULL	NULL	300	PVC	108.7	66,999	893
STP2219	NULL	NULL	NULL	250	PVC	15.9	9,800	131
STP1996	NULL	NULL	NULL	300	PVC	28.956	17,848	238
STP290	NULL	NULL	NULL	200	CO	38.86	23,952	319
STP1837	NULL	NULL	NULL	450	CO	44.6	31,491	420
STP2176	NULL	NULL	NULL	575	CO	46.3	43,766	584
STP2323	NULL	NULL	NULL	600	CO	20.2	19,094	255
STP429	NULL	NULL	NULL	250	PVC	20.3	12,512	167
STP763	NULL	NULL	NULL	575	VC	386.71	365,544	4,874
STP456	NULL	NULL	NULL	450	VC	48.77	34,435	459
STP1627	NULL	NULL	NULL	575	CO	28.22	26,675	356
STP1696	NULL	NULL	NULL	375	PVC	75.4	48,278	644
STP2280	NULL	NULL	NULL	450	CO	56.4	39,822	531
STP2087	NULL	NULL	NULL	250	CO	41	25,271	337
STP504	NULL	NULL	NULL	300	VC	25.21	15,539	207
STP1629	NULL	NULL	NULL	575	CO	46.86	44,295	591
STP1629	NULL	NULL	NULL	575	CO	46.86	44,295	591
STP2324	NULL	NULL	NULL	600	CO	50.2	47,452	633
STP2258	NULL	NULL	NULL	250	PVC	8.5	5,239	70
STP2378	NULL	NULL	NULL	375	CO	24.7	15,815	211
STP2172	NULL	NULL	NULL	300	CO	233	143,614	1,915

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2522	NULL	NULL	NULL	250	PVC	52.5	32,359	431
STP1083	NULL	NULL	NULL	575	VC	187.61	177,342	2,365
STP1807	NULL	NULL	NULL	375	PVC	49.9	31,950	426
STP1813	NULL	NULL	NULL	575	PVC	2.852	2,696	36
STP1249	NULL	NULL	NULL	1050	CO	31.1	61,014	814
STP2240	NULL	NULL	NULL	975	CO	49	90,271	1,204
STP1798	NULL	NULL	NULL	750	CO	9	11,602	155
STP895	NULL	NULL	NULL	300	VC	18.3	11,280	150
STP2234	NULL	NULL	NULL	250	CO	39.7	24,470	326
STP1818	NULL	NULL	NULL	300	PVC	60.5	37,290	497
STP2583	NULL	NULL	NULL	300	PVC	18.3	11,280	150
STP717	NULL	NULL	NULL	450	CO	11.85	8,367	112
STP1987	NULL	NULL	NULL	250	PVC	40.5	24,963	333
STP2490	NULL	NULL	NULL	300	PVC	56.5	34,825	464
STP2049	NULL	NULL	NULL	825	CO	76.5	108,911	1,452
STP1938	NULL	NULL	NULL	250	PVC	5.12	3,156	42
STP2633	NULL	NULL	NULL	300	PVC	37.7	23,237	310
STP238	NULL	NULL	NULL	525	VC	7.32	6,700	89
STP2179	NULL	NULL	NULL	1200	VC	69.9	145,495	1,940
STP2262	NULL	NULL	NULL	250	PVC	10	6,164	82
STP216	NULL	NULL	NULL	1650	CO	54.86	183,903	2,452
STP1251	NULL	NULL	NULL	450	CO	84	59,310	791
STP2243	NULL	NULL	NULL	1050	CO	10	19,619	262
STP2437	NULL	NULL	NULL	375	PVC	61.4	39,314	524
STP2294	NULL	NULL	NULL	600	CO	3.2	3,025	40
STP1803	NULL	NULL	NULL	300	PVC	52.6	32,421	432
STP2549	NULL	NULL	NULL	450	CO	47.2	33,326	444
STP1631	NULL	NULL	NULL	575	CO	39.15	37,007	493
STP2216	NULL	NULL	NULL	250	PVC	15.9	9,800	131
STP2521	NULL	NULL	NULL	250	PVC	46.4	28,599	381
STP1201	NULL	NULL	NULL	575	VC	204.67	193,468	2,580
STP1448	NULL	NULL	NULL	1650	CO	90.3	302,705	4,036
STP721	NULL	NULL	NULL	1050	CO	38	74,551	994
STP185	NULL	NULL	NULL	1050	VC	7.01	13,753	183
STP528	NULL	NULL	NULL	825	CO	12.6	17,938	239
STP1684	NULL	NULL	NULL	675	CO	17.5	18,374	245
STP1797	NULL	NULL	NULL	750	CO	14	18,048	241
STP1890	NULL	NULL	NULL	150	VC	67.056	41,331	551
STP2517	NULL	NULL	NULL	375	PVC	38.7	24,779	330
STP1401	NULL	NULL	NULL	575	VC	17.31	16,363	218
STP2239	NULL	NULL	NULL	1500	CO	37	93,056	1,241
STP2442	NULL	NULL	NULL	450	PVC	20	14,121	188
STP1845	NULL	NULL	NULL	900	CO	19.81	32,941	439
STP2210	NULL	NULL	NULL	250	PVC	29.9	18,429	246
STP749	NULL	NULL	NULL	575	VC	32.91	31,109	415
STP1698	NULL	NULL	NULL	450	CO	39.9	28,172	376
STP1520	NULL	NULL	NULL	375	CO	102.3	65,501	873
STP1387	NULL	NULL	NULL	300	VC	35.66	21,980	293

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP1437	NULL	NULL	NULL	675	CO	68	71,394	952
STP716	NULL	NULL	NULL	975	CO	38.35	70,651	942
STP1939	NULL	NULL	NULL	100	PVC	28.326	17,459	233
STP2293	NULL	NULL	NULL	600	CO	13	12,288	164
STP2588	NULL	NULL	NULL	600	CO	24.2	22,875	305
STP527	NULL	NULL	NULL	825	VC	28.53	40,617	542
STP743	NULL	NULL	NULL	575	VC	42.04	39,739	530
STP969	NULL	NULL	NULL	300	CO	12.8	7,889	105
STP1219	NULL	NULL	NULL	900	CO	20.3	33,756	450
STP1625	NULL	NULL	NULL	575	CO	17.79	16,816	224
STP724	NULL	NULL	NULL	975	VC	34.3	63,190	843
STP1878	NULL	NULL	NULL	575	CO	15.34	14,500	193
STP1381	NULL	NULL	NULL	300	VC	31.09	19,163	256
STP2434	NULL	NULL	NULL	600	CO	47.7	45,089	601
STP2436	NULL	NULL	NULL	450	PVC	56.8	40,105	535
STP1930	NULL	NULL	NULL	250	PVC	71.628	44,149	589
STP2265	NULL	NULL	NULL	250	PVC	16	9,862	131
STP947	NULL	NULL	NULL	575	VC	25.71	24,303	324
STP2491	NULL	NULL	NULL	300	PVC	43.4	26,750	357
STP1135	NULL	NULL	NULL	575	VC	53.5	50,572	674
STP2548	NULL	NULL	NULL	450	CO	33.4	23,583	314
STP1802	NULL	NULL	NULL	750	CO	84	108,286	1,444
STP1993	NULL	NULL	NULL	900	CO	3.2	5,321	71
STP223	NULL	NULL	NULL	1050	CO	99.06	194,343	2,591
STP1876	NULL	NULL	NULL	250	PVC	2.121	1,307	17
STP2512	NULL	NULL	NULL	250	PVC	41.8	25,764	344
STP1839	NULL	NULL	NULL	500	PVC	3	2,746	37
STP1800	NULL	NULL	NULL	1350	CO	12.9	30,129	402
STP1796	NULL	NULL	NULL	750	CO	10	12,891	172
STP1889	NULL	NULL	NULL	575	CO	2.812	2,658	35
STP61	NULL	NULL	NULL	900	CO	42.67	70,955	946
STP1891	NULL	NULL	NULL	150	VC	108.814	67,069	894
STP2106	NULL	NULL	NULL	250	CO	45	27,737	370
STP2440	NULL	NULL	NULL	300	PVC	38.9	23,977	320
STP2597	NULL	NULL	NULL	525	CO	23	21,053	281
STP1340	NULL	NULL	NULL	1650	CO	29.87	100,131	1,335
STP804	NULL	NULL	NULL	575	VC	160.65	151,857	2,025
STP1327	NULL	NULL	NULL	450	PVC	39.62	27,974	373
STP1327	NULL	NULL	NULL	450	PVC	39.62	27,974	373
STP1392	NULL	NULL	NULL	450	PVC	57.45	40,564	541
STP1894	NULL	NULL	NULL	525	VC	15.146	13,864	185
STP1936	NULL	NULL	NULL	100	PVC	32.849	20,247	270
STP1177	NULL	NULL	NULL	575	VC	32.77	30,976	413
STP1964	NULL	NULL	NULL	575	VC	14.851	14,038	187
STP1882	NULL	NULL	NULL	250	PVC	26.318	16,222	216
STP291	NULL	NULL	NULL	200	CO	38.86	23,952	319
STP1995	NULL	NULL	NULL	300	CO	32.004	19,726	263
STP723	NULL	NULL	NULL	575	VC	8.7	8,224	110

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP719	NULL	NULL	NULL	975	CO	69.8	128,590	1,715
STP1265	NULL	NULL	NULL	450	VC	10.65	7,520	100
STP1816	NULL	NULL	NULL	300	PVC	9.2	5,671	76
STP2488	NULL	NULL	NULL	300	PVC	43	26,504	353
STP2488	NULL	NULL	NULL	2.79	PVC	43	26,504	353
STP2207	NULL	NULL	NULL	250	PVC	25.6	15,779	210
STP2173	NULL	NULL	NULL	375	CO	35	22,410	299
STP2439	NULL	NULL	NULL	300	PVC	53.2	32,791	437
STP1941	NULL	NULL	NULL	150	PVC	22.953	14,147	189
STP1693	NULL	NULL	NULL	975	CO	125.2	230,652	3,075
STP1931	NULL	NULL	NULL	250	PVC	6.706	4,133	55
STP826	NULL	NULL	NULL	575	VC	11.5	10,871	145
STP1805	NULL	NULL	NULL	300	PVC	65.7	40,495	540
STP2171	NULL	NULL	NULL	450	VC	88.97	62,819	838
STP1187	NULL	NULL	NULL	575	VC	50.62	47,849	638
STP226	NULL	NULL	NULL	300	VC	3.35	2,065	28
STP2107	NULL	NULL	NULL	250	CO	45	27,737	370
STP2212	NULL	NULL	NULL	250	PVC	30.1	18,553	247
STP2084	NULL	NULL	NULL	250	CO	58	35,749	477
STP2241	NULL	NULL	NULL	975	CO	50	92,113	1,228
STP2281	NULL	NULL	NULL	375	CO	14.8	9,476	126
STP2547	NULL	NULL	NULL	375	PVC	90.5	57,946	773
STP2539	NULL	NULL	NULL	900	CO	44	73,166	976
STP516	NULL	NULL	NULL	375	PVC	23	14,727	196
STP2237	NULL	NULL	NULL	1500	CO	31.8	79,978	1,066
STP410	NULL	NULL	NULL	300	PVC	73.3	45,180	602
STP1208	NULL	NULL	NULL	575	VC	60.03	56,744	757
STP1817	NULL	NULL	NULL	300	PVC	52.3	32,236	430
STP1935	NULL	NULL	NULL	300	PVC	30.504	18,802	251
STP2129	NULL	NULL	NULL	600	CO	93.9	88,761	1,183
STP2206	NULL	NULL	NULL	250	PVC	25.5	15,717	210
STP718	NULL	NULL	NULL	975	CO	37.8	69,638	929
STP1988	NULL	NULL	NULL	450	CO	55.3	39,046	521
STP531	NULL	NULL	NULL	825	CO	25	35,592	475
STP1300	NULL	NULL	NULL	600	CO	3.4	3,214	43
STP1937	NULL	NULL	NULL	100	PVC	15.457	9,527	127
STP2438	NULL	NULL	NULL	375	PVC	67.8	43,411	579
STP720	NULL	NULL	NULL	1050	CO	65.6	128,698	1,716
STP2263	NULL	NULL	NULL	250	PVC	11.7	7,211	96
STP425	NULL	NULL	NULL	450	PVC	69.9	49,354	658
STP237	NULL	NULL	NULL	375	PVC	3.05	1,953	26
STP1804	NULL	NULL	NULL	300	PVC	65.6	40,434	539
STP2443	NULL	NULL	NULL	450	PVC	101.8	71,878	958
STP1809	NULL	NULL	NULL	600	CO	16.9	15,975	213
STP825	NULL	NULL	NULL	575	VC	37.86	35,788	477
STP2586	NULL	NULL	NULL	600	CO	12	11,343	151
STP529	NULL	NULL	NULL	825	CO	10.4	14,806	197
STP2170	NULL	NULL	NULL	450	VC	116.7	82,398	1,099

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2510	NULL	NULL	NULL	250	PVC	49.5	30,510	407
STP2282	NULL	NULL	NULL	375	CO	15.5	9,924	132
STP2546	NULL	NULL	NULL	300	PVC	77.7	47,892	639
STP2238	NULL	NULL	NULL	1500	CO	67	168,506	2,247
STP875	NULL	NULL	NULL	1200	CO	82.17	171,034	2,280
STP1402	NULL	NULL	NULL	575	VC	19.02	17,979	240
STP715	NULL	NULL	NULL	975	CO	28.1	51,768	690
STP1811	NULL	NULL	NULL	300	PVC	28.2	17,382	232
STP1904	NULL	NULL	NULL	375	CO	35.921	23,000	307
STP1521	NULL	NULL	NULL	965	VC	20.8	38,319	511
STP744	NULL	NULL	NULL	575	VC	126.36	119,444	1,593
STP1386	NULL	NULL	NULL	300	VC	77.27	47,627	635
STP384	NULL	NULL	NULL	300	CO	25.5	15,717	210
STP413	NULL	NULL	NULL	975	CO	40.3	74,243	990
STP530	NULL	NULL	NULL	825	CO	12	17,084	228
STP576	NULL	NULL	NULL	2000	VC	550	2,797,529	37,300
STP725	NULL	NULL	NULL	1050	VC	137.87	270,483	3,606
STP2224	NULL	NULL	NULL	250	CO	39.4	24,285	324
STP428	NULL	NULL	NULL	250	PVC	76	46,844	625
STP1877	NULL	NULL	NULL	200	PVC	19.825	12,219	163
STP1628	NULL	NULL	NULL	575	CO	36.95	34,928	466
STP2175	NULL	NULL	NULL	200	VC	23.82	14,682	196
STP2464	NULL	NULL	NULL	450	PVC	20.4	14,404	192
STP2605	NULL	NULL	NULL	1350	CO	8	18,685	249
STP1929	NULL	NULL	NULL	200	PVC	16.764	10,333	138
STP1806	NULL	NULL	NULL	300	PVC	43	26,504	353
STP2545	NULL	NULL	NULL	300	PVC	12	7,396	99
STP1799	NULL	NULL	NULL	1350	CO	15.7	36,669	489
STP2257	NULL	NULL	NULL	250	PVC	8.5	5,239	70
STP228	NULL	NULL	NULL	525	VC	108.41	99,235	1,323
STP1814	NULL	NULL	NULL	375	PVC	29	18,568	248
STP1528	NULL	NULL	NULL	675	CO	100.323	105,331	1,404
STP2109	NULL	NULL	NULL	250	PVC	9.7	5,979	80
STP735	NULL	NULL	NULL	750	CO	21.5	27,716	370
STP2220	NULL	NULL	NULL	250	PVC	26.7	16,457	219
STP2242	NULL	NULL	NULL	375	CO	81.5	52,183	696
STP1391	NULL	NULL	NULL	675	CO	39.62	41,598	555
STP1524	NULL	NULL	NULL	1200	CO	80.5	167,558	2,234
STP1812	NULL	NULL	NULL	300	PVC	8.1	4,993	67
STP2261	NULL	NULL	NULL	250	PVC	10	6,164	82
STP412	NULL	NULL	NULL	1200	CO	96.9	201,694	2,689
STP2489	NULL	NULL	NULL	2.5	PVC	44.3	27,305	364
STP2489	NULL	NULL	NULL	300	PVC	44.3	27,305	364
STP401	NULL	NULL	NULL	250	PVC	46.5	28,661	382
STP1077	NULL	NULL	NULL	575	VC	90.34	85,395	1,139
STP1801	NULL	NULL	NULL	525	CO	18.3	16,751	223
STP1692	NULL	NULL	NULL	525	CO	23.8	21,786	290
STP1694	NULL	NULL	NULL	1050	CO	108.3	212,470	2,833

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2208	NULL	NULL	NULL	250	PVC	25.3	15,594	208
STP137	NULL	NULL	NULL	300	CO	14.33	8,833	118
STP2461	NULL	NULL	NULL	375	PVC	40.5	25,932	346
STP2174	NULL	NULL	NULL	300	CO	8.6	5,301	71
STP374	NULL	NULL	NULL	600	CO	81.7	77,228	1,030
STP2326	NULL	NULL	NULL	600	CO	63.4	59,930	799
STP1792	NULL	NULL	NULL	375	PVC	20.6	13,190	176
STP1940	NULL	NULL	NULL	250	PVC	11.719	7,223	96
STP2078	NULL	NULL	NULL	300	PVC	18	11,095	148
STP1872	NULL	NULL	NULL	300	PVC	7	4,315	58
STP1872	NULL	NULL	NULL	300	PVC	7	4,315	58
STP2516	NULL	NULL	NULL	250	PVC	55.2	34,023	454
STP1630	NULL	NULL	NULL	575	CO	32.77	30,976	413
STP2236	NULL	NULL	NULL	250	PVC	38.9	23,977	320
STP1815	NULL	NULL	NULL	300	PVC	14.2	8,752	117
STP225	NULL	NULL	NULL	300	VC	3.05	1,880	25
STP2256	NULL	NULL	NULL	250	PVC	8.5	5,239	70
STP1529	NULL	NULL	NULL	675	CO	29.5	30,973	413
STP2128	NULL	NULL	NULL	600	CO	56.5	53,408	712
STP2221	NULL	NULL	NULL	250	PVC	29.6	18,244	243
STP1527	NULL	NULL	NULL	1200	CO	90	187,332	2,498
STP2211	NULL	NULL	NULL	250	PVC	30	18,491	247
STP2266	NULL	NULL	NULL	250	PVC	53.4	32,914	439
STP2435	NULL	NULL	NULL	600	CO	84.5	79,875	1,065
STP686	NULL	NULL	NULL	675	CO	45.5	47,771	637
STP431	NULL	NULL	NULL	200	PVC	10.7	6,595	88
STP1699	NULL	NULL	NULL	525	CO	48.9	44,761	597
STP2222	NULL	NULL	NULL	250	PVC	16	9,862	131
STP742	NULL	NULL	NULL	575	VC	49.92	47,188	629
STP742	NULL	NULL	NULL	575	VC	49.92	47,188	629
STP1218	NULL	NULL	NULL	900	CO	93.7	155,811	2,077
STP901	NULL	NULL	NULL	675	CO	28.96	30,406	405
STP2264	NULL	NULL	NULL	250	PVC	6	3,698	49
STP2292	NULL	NULL	NULL	600	CO	50.1	47,358	631
STP426	NULL	NULL	NULL	450	PVC	43.6	30,785	410
STP2617	NULL	NULL	NULL	750	CO	53	68,323	911
STP2587	NULL	NULL	NULL	600	CO	12.5	11,816	158
STP991	NULL	NULL	NULL	600	CO	70.95	67,067	894
STP1624	NULL	NULL	NULL	450	CO	31.87	22,502	300
STP1626	NULL	NULL	NULL	575	CO	13.64	12,893	172
STP1697	NULL	NULL	NULL	450	CO	40.1	28,313	378
STP1879	NULL	NULL	NULL	575	CO	14.922	14,105	188
STP242	NULL	NULL	NULL	975	CO	23.01	42,391	565
STP2088	NULL	NULL	NULL	250	CO	61	37,598	501
STP1909	NULL	NULL	NULL	250	PVC	10.654	6,567	88
STP850	NULL	NULL	NULL	600	CO	78.33	74,043	987
STP1791	NULL	NULL	NULL	375	PVC	25	16,007	213
STP885	NULL	NULL	NULL	600	VC	5.18	4,896	65

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP902	NULL	NULL	NULL	675	CO	97.99	102,881	1,372
STP2325	NULL	NULL	NULL	600	CO	19.9	18,811	251
STP1403	NULL	NULL	NULL	575	VC	30.31	28,651	382
STP1526	NULL	NULL	NULL	1200	CO	58.8	122,390	1,632
STP1953	NULL	NULL	NULL	300	CO	31	19,107	255
STP1808	NULL	NULL	NULL	600	CO	26.9	25,428	339
STP2053	NULL	NULL	NULL	250	PVC	67.9	41,851	558
STP2235	NULL	NULL	NULL	525	CO	44.7	40,917	546
STP1892	NULL	NULL	NULL	200	VC	31.09	19,163	256
STP180	NULL	NULL	NULL	1050	CO	101.04	198,227	2,643
STP2259	NULL	NULL	NULL	250	PVC	10	6,164	82
STP2750	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	825	CO	42.7	60,791	811
STP2767	EDGEWARE LINE	HIGHBURY AVENUE	CITY LIMITS	250	PVC	53.7	33,099	441
STP2670	FEATHERS CROSSING	SILVERLEAF PATH	STYLES DRIVE	375	PVC	84.7	54,232	723
STP2762	SOUTHDALE LINE	BILL MARTYN PARKWAY	FAIRVIEW AVENUE	250	PVC	10.3	6,349	85
STP2664	BENJAMIN PARKWAY	FOXTAIL LANE	LOGG TRAIL	1350	CO	114.6	267,662	3,569
STP2728	FAIRVIEW AVENUE	ALDBOROUGH AVENUE	CALDWELL STREET	450	PVC	90	63,546	847
STP2705	LOCUST STREET	ROSS STREET	FIFTH AVENUE	375	PVC	85.6	54,809	731
STP2663	BENJAMIN PARKWAY	BIRCHALL LANE	FOXTAIL LANE	1650	CO	29.5	98,890	1,319
STP2725	INKERMAN STREET	MALAKOFF STREET	TRAFALGAR STREET	375	PVC	45.2	28,941	386
STP2731	FAIRVIEW AVENUE	AIREY AVENUE	RAVEN AVENUE	900	CO	99.84	166,021	2,214
STP2683	STYLES DRIVE	CLOVER CIRCLE	FEATHERS CROSSING	825	CO	95.9	136,530	1,820
2709	LOCUST STREET	FIFTH AVENUE	FOURTH AVENUE	525	CO	110	100,690	1,343
STP2754	FAIRVIEW AVENUE	SOUTHDALE LINE	CITY LIMITS	250	PVC	7.8	4,808	64
STP2722	DUNWICH DRIVE	HOWARD PLACE	AIREY AVENUE	300	PVC	91.9	56,644	755
STP2743	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	300	CO	9.6	5,917	79
STP2701	HEDGES COURT	WELLINGTON STREET	END	375	CO	29	18,568	248
STP2692	HARLEQUIN COURT	RENAISSANCE DRIVE	END	450	CO	103.6	73,149	975
STP2764	WELDON AVENUE	INKERMAN STREET	WOODWORTH AVENUE	375	PVC	103.6	66,334	884
STP2691	HARLEQUIN COURT	RENAISSANCE DRIVE	END	300	PVC	300	184,910	2,465
STP2742	FAIRVIEW AVENUE	AXFORD PARKWAY	BILL MARTYN PARKWAY	300	PVC	26	16,026	214
STP2717	AHMED PLACE	PARISH STREET	END	300	PVC	32.8	20,217	270
STP2736	FAIRVIEW AVENUE	AXFORD PARKWAY	BILL MARTYN PARKWAY	300	PVC	5.3	3,267	44
STP2761	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	300	PVC	16.4	10,108	135
STP2716	AHMED PLACE	PARISH STREET	END	300	PVC	62.7	38,646	515
STP2695	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	375	PVC	8.5	5,442	73
STP2756	LEGER AVENUE	MCGIBBON AVENUE	FAIRVIEW AVENUE	1200	CO	11.1	23,104	308
STP2689	WEIR CRESCENT	STYLES DRIVE	STYLES DRIVE	525	CO	99	90,621	1,208
STP2758	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	300	PVC	6	3,698	49
STP2686	CLOVER CIRCLE	STYLES DRIVE	END	250	PVC	44.6	27,490	367
STP2688	WEIR CRESCENT	STYLES DRIVE	STYLES DRIVE	375	PVC	117.9	75,490	1,007
STP2740	FAIRVIEW AVENUE	AXFORD PARKWAY	BILL MARTYN PARKWAY	375	PVC	7.6	4,866	65
STP2723	INKERMAN STREET	TALBOT STREET	WELDON AVENUE	375	PVC	97	62,108	828
STP2765	LOCUST STREET	ROSS STREET	FIFTH AVENUE	450	PVC	89	62,840	838
STP2751	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	200	PVC	19.5	12,019	160
STP2696	RENAISSANCE DRIVE	ACORN TRAIL	EMPIRE PARKWAY	250	PVC	32.1	19,785	264
STP2659	ACORN TRAIL	ASHBERRY PLACE	RENAISSANCE DRIVE	750	CO	112.9	145,541	1,941
STP2757	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	250	PVC	13.4	8,259	110

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2710	LOCUST STREET	FOURTH AVENUE	THIRD AVENUE	300	PVC	110.3	67,985	906
STP2708	LOCUST STREET	FIFTH AVENUE	FOURTH AVENUE	525	CO	74.7	68,378	912
STP2730	FAIRVIEW AVENUE	CALDWELL STREET	AIREY AVENUE	900	CO	73.53	122,271	1,630
STP2651	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	375	PVC	36.3	23,242	310
STP2698	BARRETT CRESCENT	COLEMAN COURT	SOUTHGATE PARKWAY	250	PVC	30	18,491	247
STP2747	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	300	PVC	9.1	5,609	75
STP2760	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	250	PVC	9.1	5,609	75
STP2665	BENJAMIN PARKWAY	FOXTAIL LANE	LOGG TRAIL	1350	CO	75.3	175,872	2,345
STP2729	FAIRVIEW AVENUE	ALDBOROUGH AVENUE	CALDWELL STREET	450	PVC	100.01	70,614	942
STP2658	ACORN TRAIL	ASHBERRY PLACE	RENAISSANCE DRIVE	250	PVC	51	31,435	419
STP2755	FAIRVIEW AVENUE	SOUTHDALE LINE	CITY LIMITS	250	PVC	17.7	10,910	145
STP2704	TAMARACK COURT	PINE VALLEY DRIVE	WEST END	450	CO	56.2	39,681	529
STP2766	HIGHBURY AVENUE	DENNIS ROAD	EDGEWARE LINE	300	PVC	24	14,793	197
STP2660	RENAISSANCE DRIVE	AMBROSIA PATH	ACORN TRAIL	750	CO	37.2	47,955	639
STP2763	WELDON AVENUE	INKERMAN STREET	WOODWORTH AVENUE	375	PVC	103.2	66,078	881
STP2685	CLOVER CIRCLE	STYLES DRIVE	END	375	PVC	102.6	65,693	876
STP2714	FOURTH AVENUE	MYRTLE STREET	LOCUST STREET	750	CO	79.7	102,743	1,370
STP2759	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	300	PVC	10.4	6,410	85
STP2697	BENJAMIN PARKWAY	FOXTAIL LANE	LOGG TRAIL	1650	CO	4.8	16,091	215
STP2737	FAIRVIEW AVENUE	AXFORD PARKWAY	BILL MARTYN PARKWAY	250	PVC	12.3	7,581	101
STP2727	INKERMAN STREET	TRAFALGAR STREET	REDAN STREET	375	PVC	37.1	23,755	317
STP2700	HEDGES COURT	WELLINGTON STREET	END	300	CO	65	40,064	534
STP2746	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	900	CO	31.1	51,715	690
STP2753	FAIRVIEW AVENUE	SOUTHDALE LINE	CITY LIMITS	250	PVC	89	54,857	731
STP2713	FOURTH AVENUE	FOREST AVENUE	MYRTLE STREET	300	PVC	81.1	49,987	666
STP2738	FAIRVIEW AVENUE	AXFORD PARKWAY	BILL MARTYN PARKWAY	300	PVC	7.1	4,376	58
STP2684	STYLES DRIVE	FOXTAIL LANE	CLOVER CIRCLE	900	CO	52	86,469	1,153
STP2706	LOCUST STREET	ROSS STREET	FIFTH AVENUE	450	VC	85.1	60,086	801
STP2687	WEIR CRESCENT	STYLES DRIVE	STYLES DRIVE	300	PVC	78.5	48,385	645
STP2656	ACORN TRAIL	ASHBERRY PLACE	RENAISSANCE DRIVE	250	PVC	51	31,435	419
STP2655	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	300	PVC	82.6	50,912	679
STP2666	BENJAMIN PARKWAY	FOXTAIL LANE	LOGG TRAIL	1350	CO	75.3	175,872	2,345
STP2739	FAIRVIEW AVENUE	AXFORD PARKWAY	BILL MARTYN PARKWAY	300	PVC	12.3	7,581	101
STP2672	FEATHERS CROSSING	SILVERLEAF PATH	STYLES DRIVE	600	CO	88	83,184	1,109
STP2671	FEATHERS CROSSING	SILVERLEAF PATH	STYLES DRIVE	525	CO	93.7	85,770	1,144
STP2661	RENAISSANCE DRIVE	ACORN TRAIL	EMPIRE PARKWAY	450	CO	57.5	40,599	541
STP2724	INKERMAN STREET	REDAN STREET	NOLAN STREET	450	PVC	98.4	69,477	926
STP2699	EAST PEARL STREET	ELYSIAN STREET	NORTH END	250	PVC	67	41,297	551
STP2711	FOURTH AVENUE ROW	LOCUST STREET	CHESTNUT STREET	750	CO	56.6	72,964	973
STP2707	LOCUST STREET	ROSS STREET	FIFTH AVENUE	525	CO	83.2	76,159	1,015
STP2703	SUTHERLAND COURT	PINE VALLEY DRIVE	CITY LIMITS	450	CO	77.3	54,579	728
STP2657	ACORN TRAIL	ASHBERRY PLACE	RENAISSANCE DRIVE	525	CO	79.5	72,772	970
STP2749	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	250	PVC	44.8	27,613	368
STP2741	FAIRVIEW AVENUE	AXFORD PARKWAY	BILL MARTYN PARKWAY	250	PVC	13.1	8,074	108
STP2715	AHMED PLACE	PARISH STREET	END	300	PVC	86.2	53,131	708
STP2694	HARLEQUIN COURT	RENAISSANCE DRIVE	END	600	CO	70	66,169	882
STP2726	INKERMAN STREET	TRAFALGAR STREET	REDAN STREET	375	PVC	75.5	48,342	645
STP2654	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	300	PVC	42.9	26,442	353

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP2732	FAIRVIEW AVENUE	RAVEN AVENUE	LEGER AVENUE	1200	CO	82.8	172,345	2,298
STP2652	ACORN TRAIL	PEAR TREE AVENUE	ASHBERRY PLACE	375	PVC	114.2	73,121	975
STP2653	ASHBERRY PLACE	PEAR TREE AVENUE	ACORN TRAIL	375	PVC	106.1	67,934	906
STP2693	HARLEQUIN COURT	RENAISSANCE DRIVE	END	600	CO	69.9	66,074	881
STP2745	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	300	CO	25	15,409	205
STP2748	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	300	PVC	8	4,931	66
STP2733	FAIRVIEW AVENUE	LEGER AVENUE	AXFORD PARKWAY	300	PVC	56.29	34,695	463
STP2744	FAIRVIEW AVENUE	BILL MARTYN PARKWAY	SOUTHDALE LINE	300	CO	3.8	2,342	31
STP2669	FEATHERS CROSSING	SILVERLEAF PATH	STYLES DRIVE	300	PVC	91	56,089	748
STP2734	AXFORD PARKWAY	FAIRVIEW AVENUE	MCGIBBON AVENUE	300	PVC	19.8	12,204	163
STP2768	EDGEWARE LINE	HIGHBURY AVENUE	CITY LIMITS	250	PVC	59.3	36,551	487
STP2673	FEATHERS CROSSING	BENJAMIN PARKWAY	SILVERLEAF PATH	900	CO	112.1	186,407	2,485
STP2752	FAIRVIEW AVENUE	SOUTHDALE LINE	CITY LIMITS	750	CO	62	79,925	1,066
STP2735	FAIRVIEW AVENUE	AXFORD PARKWAY	BILL MARTYN PARKWAY	250	PVC	13	8,013	107
STP2690	WEIR CRESCENT	STYLES DRIVE	STYLES DRIVE	300	PVC	42.1	25,949	346
STP2712	FOURTH AVENUE	ERIE STREET	FOREST AVENUE	300	PVC	15.8	9,739	130
STP2702	SUTHERLAND COURT	PINE VALLEY DRIVE	CITY LIMITS	525	CO	75.6	69,202	923
STP2678	NULL	NULL	NULL	300	PVC	25	15,409	205
STP2720	NULL	NULL	NULL	250	PVC	3	1,849	25
STP2675	NULL	NULL	NULL	600	CO	22.7	21,458	286
STP2682	NULL	NULL	NULL	450	PVC	59.6	42,082	561
STP2677	NULL	NULL	NULL	525	CO	63.7	58,309	777
STP2680	NULL	NULL	NULL	525	CO	32.3	29,566	394
STP2721	NULL	NULL	NULL	200	PVC	81.2	50,049	667
STP2718	NULL	NULL	NULL	300	PVC	41.8	25,764	344
STP2679	NULL	NULL	NULL	250	PVC	41	25,271	337
STP2668	NULL	NULL	NULL	675	CO	52.4	55,016	734
STP2662	NULL	NULL	NULL	300	PVC	34.5	21,265	284
STP2674	NULL	NULL	NULL	600	CO	49.3	46,602	621
STP2676	NULL	NULL	NULL	250	PVC	49.5	30,510	407
STP2719	NULL	NULL	NULL	300	PVC	38.8	23,915	319
STP2667	NULL	NULL	NULL	1350	CO	62.5	145,976	1,946
STP1254	HUNTINGTON TERRACE	WELLINGTON STREET	END	300	PVC	21.5	13,252	177
STP1389	NELSON STREET	UKRANIAN STREET	REDAN STREET	600	CO	70.2	66,358	885
STP1051	BALACLAVA STREET	HAMMOND STREET	SOUTH EDGEWARE ROAD	450	CO	91.44	64,563	861
STP1256	WELLINGTON STREET	FIRST AVENUE	TALEQUAH STREET	600	CO	99.8	94,338	1,258
STP1316	BALACLAVA STREET	MALAKOFF STREET	REDAN STREET	600	CO	76.2	72,029	960
STP1317	BALACLAVA STREET	MALAKOFF STREET	REDAN STREET	825	CO	52.73	75,070	1,001
STP1315	BALACLAVA STREET	TALBOT STREET	MALAKOFF STREET	525	CO	48.77	44,642	595
STP449	WELLINGTON STREET	SECOND AVENUE	FIRST AVENUE	675	CO	55.4	58,165	776
STP1314	BALACLAVA STREET	TALBOT STREET	MALAKOFF STREET	525	CO	27.43	25,109	335
STP454	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	300	CO	114.8	70,759	943
STP463	WELLINGTON STREET	PARK AVENUE	HUNTINGTON TERRACE	375	CO	53.4	34,191	456
STP1098	WELLINGTON STREET	METCALFE STREET	CROCKER AVENUE	525	CO	91.7	83,939	1,119
STP1180	WOODWORTH AVENUE	TALBOT STREET	WELDON AVENUE	450	VC	212.45	150,004	2,000
STP2063	ELM STREET	NEAL AVENUE	PEACH TREE BOULEVARD	450	CO	107.8	76,114	1,015
STP457	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	825	CO	25.3	36,019	480
STP1865	SCOTT STREET	EAST STREET	PEARL STREET	375	PVC	117.25	75,074	1,001

LIFECYCLE ANALYSIS - STORMWATER PIPE NETWORK								
ASSET NAME	ON STREET	FROM STREET	TO STREET	DIAMETER (mm)	MATERIAL	LENGTH (m)	REPLACEMENT ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
STP651	EASEMENT	DONKER DRIVE	SWM11	900	CO	106.5	177,095	2,361
STP1131	MOORE STREET	TALBOT STREET	CENTRE STREET	575	PVC	78.74	74,430	992
STP464	WELLINGTON STREET	PARK AVENUE	HUNTINGTON TERRACE	600	CO	57.8	54,636	728
STP1863	SCOTT STREET	EAST STREET	PEARL STREET	525	PVC	59.55	54,510	727
STP1634	WOODWORTH AVENUE	WELDON AVENUE	MALAKOFF STREET	300	VC	12.83	7,908	105
STP445	WELLINGTON STREET	TALEQUAH STREET	PARK AVENUE	300	CO	270.79	166,906	2,225
STP1633	WOODWORTH AVENUE	WELDON AVENUE	MALAKOFF STREET	300	VC	83.7	51,590	688
STP830	TALBOT STREET	INKERMAN STREET	WOODWORTH AVENUE	525	VC	108.5	99,317	1,324
STP1274	TALBOT STREET	ALMA STREET	BALACLAVA STREET	575	VC	48.54	45,883	612
STP1274	TALBOT STREET	ALEXANDRIA AVENUE	FIRST AVENUE	575	VC	48.54	45,883	612
STP1274	TALBOT STREET	ARTHUR AVENUE	ALEXANDRIA AVENUE	575	VC	48.54	45,883	612
STP1280	TALBOT STREET	INKERMAN STREET	WOODWORTH AVENUE	900	CO	113.7	189,068	2,521
STP1356	JESSIE STREET	JACKSON STREET	HAMILTON STREET	300	VC	21.26	13,104	175
STP355	HIGHVIEW DRIVE	FOREST AVENUE	WELLINGTON STREET	450	CO	104.1	73,502	980
STP1358	JESSIE STREET	JACKSON STREET	HAMILTON STREET	375	VC	49.61	31,765	424
STP1355	JESSIE STREET	JACKSON STREET	HAMILTON STREET	300	VC	76.98	47,448	633
STP831	TALBOT STREET	ARTHUR AVENUE	ALEXANDRIA AVENUE	900	VC	94.49	157,124	2,095
STP1357	HAMILTON STREET	SCOTT STREET	JESSIE STREET	300	VC	85.65	52,792	704
STP1281	TALBOT STREET	WOODWORTH AVENUE	ARTHUR AVENUE	900	CO	102.5	170,444	2,273
STP784	INKERMAN STREET	NOLAN STREET	EDWARD STREET	575	VC	121.92	115,247	1,537
STP784	INKERMAN STREET	EDWARD STREET	HIGHWAY #3 BYPASS	575	VC	121.92	115,247	1,537
STP1122	ROSEBERY PLACE	SOUTHWICK STREET	PRINCESS AVENUE	300	VC	100.63	62,025	827
STP1104	ROSEBERY PLACE	HINCKS STREET	SOUTHWICK STREET	300	VC	145.49	89,675	1,196
STP1121	ROSEBERY PLACE	SOUTHWICK STREET	PRINCESS AVENUE	300	VC	100.36	61,859	825
STP1050	INKERMAN STREET	HAMMOND STREET	PATRICIA STREET	450	PVC	44.75	31,597	421
STP2209	EMPIRE PARKWAY	PEACH TREE BOULEVARD	END	250	PVC	25.5	15,717	210
STP2267	MARTINGALE TERRACE	PEACH TREE BOULEVARD	END	375	PVC	26.7	17,096	228
STP2650	ELM STREET	ELMWOOD AVENUE	BAILEY AVENUE	525	CO	69.5	63,618	848
STP2465	AMELIA STREET	MOORE STREET	ROSS STREET	600	CO	55.6	52,557	701
STP2466	AMELIA STREET	MOORE STREET	ROSS STREET	450	CO	10	7,061	94
STP2213	NULL	NULL	NULL	250	PVC	31.9	19,662	262
STP2391	NULL	NULL	NULL	450	VC	45	31,773	424
STP2392	NULL	NULL	NULL	450	VC	43	30,361	405
STP2252	NULL	NULL	NULL	250	PVC	8.5	5,239	70
STP2177	NULL	NULL	NULL	300	CO	16.6	10,232	136
						168,030	184,657,609	2,462,101

LIFECYCLE ANALYSIS - STORMWATER GRIT SEPARATORS					
ASSET ID	ASSET NAME	MANUFACTURER	MODEL	REPLACEMENT ESTIMATE (2022 \$)	ANNUAL LIFECYCLE CONTRIBUTION (2022 \$)
STD05	SEWERDEVICE_5	STORMCEPTOR	STC-750	23,920	319
STD07	SEWERDEVICE_7	STORMCEPTOR	STC-1000	35,880	478
STD08	SEWERDEVICE_8	STORMCEPTOR	STC-3000	59,800	797
STD09	SEWERDEVICE_9	STORMCEPTOR	STC-750	23,920	319
STD10	SEWERDEVICE_10	STORMCEPTOR	STC-750	23,920	319
STD11	SEWERDEVICE_11	STORMCEPTOR	STC-750	23,920	319
STD12	SEWERDEVICE_12	ENV-21	V2B1-11	41,860	558
STD14	SEWERDEVICE_14	STORMCEPTOR	STC-1500	41,860	558
STD15	SEWERDEVICE_15	STORMCEPTOR	STC-1000	35,880	478
STD16	SEWERDEVICE_16	ENV-21	V2B1-4	41,860	558
STD17	SEWERDEVICE_17	CDS	PMSU20_15	41,860	558
STD18	SEWERDEVICE_18	STORMCEPTOR	STC-750	23,920	319
STD19	SEWERDEVICE_19	STORMCEPTOR	STC-6000	95,680	1,276
STD21	STD21	STORMCEPTOR	STC-750	23,920	319
STD29	SEWERDEVICE_29	CDS	PMSU 20_20	41,860	558
STD30	SEWERDEVICE_30	CDS	PMSU 20_25	41,860	558
STD31	SEWERDEVICE 31	CDS	PMSU 20_15_5	41,860	558
STD32	STD32	UNISTORM	21 18-BR	35,880	478
STD33	SEWERDEVICE_33	ADS	4240WQA24	59,800	797
STD37	STD37	ADS	3620WQA18	41,860	558
STD40	SEWERDEVICE_40	STORMCEPTOR	STC-10000	119,600	1,595
STD41	SEWERDEVICE_41	STORMCEPTOR	STC-10000	119,600	1,595
STD42	SEWERDEVICE_42	STORMCEPTOR	STC-10000	119,600	1,595
STD43	SEWERDEVICE_43	STORMCEPTOR	STC-10000	119,600	1,595
STD44	SEWERDEVICE_44	CDS	PMSU30_20	59,800	797
STD45	SEWERDEVICE_45	CDS	PMSU20_20	41,860	558
STD46	SEWERDEVICE_46	CDS	PMSU30_25	95,680	1,276
STD47	SEWERDEVICE_47	STORMCEPTOR	STC-4000	83,720	1,116
TOTALS				1,441,180	20,810

LIFECYCLE ANALYSIS - STORMWATER PONDS				
ASSET ID	LOCATION	AREA (m2)	REPLACEMENT COST ESTIMATE (2022\$)	ANNUAL LIFECYCLE CONTRIBUTION (2022\$)
SWM1	125 BILL MARYTN PARKWAY, AT THE DOUGLAS J. TARRY COMPLEX POND	12000	717,600	7,176
SWM10	2 HARWILL ROAD	3700	239,200	2,392
SWM11	65 DONKER DRIVE	9600	717,600	7,176
SWM12	500 BURWELL ROAD	2500	239,200	2,392
SWM14	OFF OF MANOR ROAD	7300	478,400	4,784
SWM16	86 SAUVE AVENUE	3200	239,200	2,392
SWM17	40 OLD COURSE ROAD	28000	717,600	7,176
SWM18	37½ HUMMINGBIRD LANE	7000	478,400	4,784
SWM19	641A ELM STREET IN ORCHARD PARK SUBDIVISION PHASE 1	5900	478,400	4,784
SWM2	85 LAKE MARGARET TRAIL	8200	478,400	4,784
SWM20	97 CIRCLEWOOD DRIVE	6600	478,400	4,784
SWM21	70 RAVEN AVENUE, WEST OF NOBLE LANE	3000	239,200	2,392
SWM22	IN MILLERS POND SOUTH OF SOUTHDALE LINE	18522	717,600	7,176
SWM23	BEHIND CHAMBERLAIN COURT AND MELROSE COURT NORTH OF SOUTHDALE LINE	2957	239,200	2,392
SWM24	ON THE CORNER SOUTHWEST CORNER OF ELM STREET AND CENTENNIAL ROAD	12038	717,600	7,176
SWM3	390 HIGHVIEW DRIVE	200	239,200	2,392
SWM5	55 NEAL AVENUE,OLDEWOOD SUBDIVISION PHASE 1	2000	239,200	2,392
SWM6	362 CHESTNUT STREET	2000	239,200	2,392
SWM7	305 BURWELL ROAD, OFF OF MCGREGOR COURT	20200	717,600	7,176
SWM9	11 HEDGES COURT	2600	239,200	2,392
SWM25	East side of Renaissance Drive, north of Empire Parkway	27000	717,600	7,176
SWM26	17 Parish st.	562	239,200	2,392
TOTALS			9,807,200	98,072

Appendix F: Capital Plan Financing

Funding Source	Capital Financing Plan - Sanitary Sewer										
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Provincial/Federal Grants	-	2,040,077	-	-	-	-	-	-	-	-	-
Debentures	-	2,275,000	-	3,000,000	-	10,000,000	-	-	-	-	-
Connection Charge Reserve	-	-	-	-	-	500,000	-	-	-	-	-
Sewer Reserve	4,436,077	2,772,662	6,227,774	5,408,882	4,178,732	7,829,921	6,270,112	5,548,952	5,366,924	5,561,882	6,514,817
TOTAL CAPITAL PLAN - SANITARY	4,436,077	7,087,739	6,227,774	8,408,882	4,178,732	18,329,921	6,270,112	5,548,952	5,366,924	5,561,882	6,514,817

	Capital Financing Plan - Stormwater										
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Provincial/Federal Grants	-	-	-	-	-	-	-	-	-	-	-
Debentures	-	-	-	-	-	-	-	-	-	-	-
Sewer Reserve	1,844,400	3,122,097	967,065	1,896,116	3,228,160	1,057,501	3,209,474	2,244,921	4,259,587	4,411,468	5,319,653
TOTAL CAPITAL PLAN -STORM	1,844,400	3,122,097	967,065	1,896,116	3,228,160	1,057,501	3,209,474	2,244,921	4,259,587	4,411,468	5,319,653

Appendix G: Operating Expense and Revenue Forecasts

SANITARY SEWER OPERATIONS EXPENSE FORECAST (INFLATED \$)											
	2022 BUDGET	2023 FORECAST	2024 FORECAST	2025 FORECAST	2026 FORECAST	2027 FORECAST	2028 FORECAST	2029 FORECAST	2030 FORECAST	2031 FORECAST	2032 FORECAST
PC ADMIN EXPENSES	722,450	750,708	780,073	810,589	842,300	875,254	909,499	945,086	982,067	1,020,499	1,060,436
PC OPERATIONS EXPENSES	3,101,510	3,199,875	3,301,744	3,407,254	3,516,546	3,629,769	3,747,075	3,868,625	3,994,585	4,125,130	4,260,439
PUMP STATION EXPENSES	281,200	292,795	304,878	317,469	330,591	344,265	358,516	373,368	388,848	404,982	421,798
SEWER OPS EXPENSE	694,650	712,353	730,584	749,360	768,699	788,619	809,139	830,280	852,062	874,506	897,635
FINANCING EXPENSE	-	140,268	140,268	325,236	325,236	941,797	941,797	941,797	941,797	941,797	941,797
TOTAL SANITARY EXPENSE	4,799,810	5,095,999	5,257,547	5,609,908	5,783,372	6,579,703	6,766,026	6,959,156	7,159,360	7,366,913	7,582,105

STORMWATER OPERATIONS EXPENSE FORECAST (INFLATED \$)											
	2022 BUDGET	2023 FORECAST	2024 FORECAST	2025 FORECAST	2026 FORECAST	2027 FORECAST	2028 FORECAST	2029 FORECAST	2030 FORECAST	2031 FORECAST	2032 FORECAST
STORMWATER OPERATIONS EXPENSES	694,650	712,353	730,584	749,360	768,699	788,619	809,139	830,280	852,062	874,506	897,635
TOTAL STORM EXPENSE	694,650	712,353	730,584	749,360	768,699	788,619	809,139	830,280	852,062	874,506	897,635

SANITARY SEWER OPERATING REVENUE FORECAST (INFLATED \$)											
	2022 BUDGET	2023 FORECAST	2024 FORECAST	2025 FORECAST	2026 FORECAST	2027 FORECAST	2028 FORECAST	2029 FORECAST	2030 FORECAST	2031 FORECAST	2032 FORECAST
Residential	6,575,554	7,297,662	8,099,925	8,708,210	9,362,331	9,783,910	10,224,504	10,684,969	11,166,205	11,669,150	12,194,783
Commercial	409,370	493,733	595,511	701,614	826,629	964,653	1,125,725	1,222,307	1,277,564	1,335,323	1,395,696
Industrial	497,587	553,815	610,581	657,137	693,773	725,305	758,270	792,733	828,763	866,430	905,810
TOTAL SANITARY REVENUE	7,482,511	8,345,210	9,306,017	10,066,962	10,882,733	11,473,868	12,108,498	12,700,010	13,272,533	13,870,903	14,496,288

STORMWATER OPERATING REVENUE FORECAST (INFLATED \$)											
	2022 BUDGET	2023 FORECAST	2024 FORECAST	2025 FORECAST	2026 FORECAST	2027 FORECAST	2028 FORECAST	2029 FORECAST	2030 FORECAST	2031 FORECAST	2032 FORECAST
Residential	2,186,612	2,410,740	2,607,215	2,752,567	2,906,023	3,038,102	3,176,183	3,320,541	3,471,460	3,629,237	3,794,186
Commercial	436,313	462,991	482,140	499,449	517,435	534,860	552,894	571,559	590,879	610,878	631,580
Industrial	502,422	556,383	604,264	639,258	676,242	707,809	740,835	775,388	811,538	849,358	888,926
TOTAL STORM REVENUE	3,125,347	3,430,114	3,693,620	3,891,274	4,099,700	4,280,770	4,469,912	4,667,489	4,873,877	5,089,474	5,314,691