7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com

519.848.3620
1.866.848.3620 FAX 519.848.3228

Plan to Simply Explore.
www.simplyexplore.ca

Regular Meeting of Council

Monday, January 25, 2016

7:00 p.m.

Municipal Office Council Chambers, Kenilworth

A G E N D A

AGENDA ITEM	PAGE NO.
CALLING TO ORDER	
- Mayor Lennox	
SINGING OF O' CANADA	
PASSING AND ACCEPTANCE OF AGENDA	
DISCLOSURE OF PECUNIARY INTEREST(S) AND THE GENERAL NATURE THEREOF	
MINUTES OF PREVIOUS MEETING(S)	
Court of Revision, January 11, 2016	001
Regular Meeting of Council, January 11, 2016	003
BUSINESS ARISING FROM MINUTES	
Resolution for support of Bill 36 being an Act to Amend the Trespass to Property Act	016
Draft letter to Ontario Federation of Anglers and Hunters requesting education on better behaviour of members	017

TOWNSHIP OF WELLINGTON NORTH
COURT OF REVISION
WEST LUTHER DRAIN 64
MONDAY, JANUARY 11, 2016 – 7:00 P.M.

The meeting was held in the Municipal Office Council Chambers, Kenilworth.

Members Present: **Steve McCabe, Chair**
Sherry Burke
Lisa Hern

Also Present: **Karren Wallace, Clerk- Secretary**
Michael Givens, Chief Administrative Officer
Cathy Conrad, Executive Assistant

RESOLUTION CoR2016-001
Moved by: **Member Hern**
Seconded by: **Member Burke**
THAT the Court of Revision for West Luther Drain 64 be convened at 7:01 p.m.
CARRIED

Chair McCabe welcomed everyone and advised the Court of Revision of the Township of Wellington North was meeting for the purpose of considering and determining appeals from the assessments regarding By-law Number 086-15 (West Luther Drain 64).

The Chair explained that revised assessment schedules were provided at 5:00 p.m. today by K. Smart Associates Limited after discovering an error in their original calculations. As a result, assessments have changed. The meeting will be deferred until notice of the revised assessment schedules have been circulated pursuant to the Drainage Act.

RESOLUTION CoR2016-002
Moved by: **Member Hern**
Seconded by: **Member Burke**
THAT the Court of Revision receive revised assessment schedules as prepared by K. Smart Associates Limited:
AND FURTHER THAT staff be directed to circulate the revised assessment schedules to the impacted property owners pursuant to the Notice Provisions in the Drainage Act;
AND FURTHER THAT the Court of Revision be reconvened within 30 days after the Notice of the revised assessments are mailed, to hear any appeals that may result from the revised assessments.
CARRIED

TOWNSHIP OF WELLINGTON NORTH
COURT OF REVISION
WEST LUTHER DRAIN 64
MONDAY, JANUARY 11, 2016 – 7:00 P.M.

RESOLUTION CoR2016-003
Moved by: **Member Hern**
Seconded by: **Member Burke**
THAT the Court of Revision convened to consider the West Luther Drain 64 be adjourned at 7:02 p.m.
CARRIED

CHAIRMAN **SECRETARY**

THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH
REGULAR MEETING OF COUNCIL
JANUARY 11, 2016 – FOLLOWING COURT OF REVISION

The meeting was held in the Municipal Office Council Chambers, Kenilworth.

Members Present:	**Mayor:**	**Andy Lennox**
	Councillors	**Sherry Burke**
		Lisa Hern
		Steve McCabe
		Dan Yake
Staff Present:	**CAO/Deputy Clerk:**	**Michael Givens**
	Clerk:	**Karren Wallace**
	Executive Assistant:	**Cathy Conrad**
	Director of Public Works:	**Matthew Aston**
	Fire Chief:	**Dave Guilbault**

CALLING THE MEETING TO ORDER

Mayor Lennox called the meeting to order.

SINGING OF O' CANADA

PASSING AND ACCEPTANCE OF AGENDA

RESOLUTION 2016-001
Moved by: Councillor McCabe
Seconded by: Councillor Burke
THAT the Agenda for the January 11, 2016 Regular Meeting of Council be accepted and passed with the addition of:

- *Pat Brown as a delegation*

CARRIED

DISCLOSURE OF PECUNIARY INTEREST(S) AND THE GENERAL NATURE THEREOF

No pecuniary interest declared.

MINUTES OF PREVIOUS MEETING(S)

RESOLUTION 2016-002
Moved by: Councillor Burke
Seconded by: Councillor McCabe
THAT the minutes of the Regular Meeting of Council held on December 21, 2015 be adopted as circulated.
CARRIED

THE CORPORATION OF THE
TOWNSHIP OF WELLINGTON NORTH
REGULAR MEETING OF COUNCIL
JANUARY 11, 2016 – FOLLOWING COURT OF REVISION

BUSINESS ARISING FROM MINUTES

No business arising from minutes was tabled.

DELEGATIONS

Genevieve Scott, Cuesta Planning Consultants Inc. and Randy Bye, H. Bye Construction Ltd.

- Proposed Ghent Pit draft road upgrade agreement

Ms. Scott and Mr. Bye appeared before Council to present the Proponent Response to the Draft Road Upgrade Agreement as it relates to the proposed Ghent Pit. Ms. Scott outlined concerns regarding required installation of guide rails on the Reidy Bridge, future right-turn taper lane and signage on Highway 89 at the discretion of the Ministry of Transportation, future operators using the same haul route and Aggregate Resources Act revisions to tonnage levies increases.

Gerald and Joanne Booi

- Proposed Ghent gravel pit

Mr. and Mrs. Booi appeared before council to voice their opposition to the proposed gravel pit and concerns regarding the haul route. Their concerns include the land will not being rehabilitated back to agricultural; lack of demand for aggregate; traffic study completed during load restriction season; and substandard road condition. Mr. Booi suggested that the applicant be required to bring the road to standard and pave the road. Reference was made to the Township of Chatsworth policy that haul routes for aggregate operations must be located on paved roads or the applicant must pay to have the road brought up to municipal standards.

Bonnie Littley

- Proposed Ghent gravel pit Traffic Impact Study and peer review
- Ms. Littley withdrew her delegation request

Brett McHugh

- Proposed Ghent gravel pit by-law amendment

Mr. McHugh appeared before Council to express his concerns regarding the traffic study and peer review related to the application, road upgrades and cost to taxpayers. Mr. McHugh suggested conditions regarding road conditions and upgrades, vertical zoning, school zone and property values be included in amendment

Pat Brown

- Proposed Ghent gravel pit by-law amendment

Mr. Brown appeared before Council to request deferral of the zoning by-law amendment. Mr. Brown referred to changes in the farming industry, better stewardship of soil and water, review of the Aggregate Resources Act and a review the structural integrity of the haul route.

STANDING COMMITTEE, STAFF REPORTS, MINUTES AND RECOMMENDATIONS

Report from Linda Redmond, Senior Planner

- H. Bye Construction – "Ghent" Gravel Pit

RESOLUTION 2016-003
Moved by: Councillor McCabe
Seconded by: Councillor Hern
THAT the Council of the Corporation of the Township of Wellington North receive the planning report prepared by Linda Redmond, Senior Planner, dated December 21, 2015 regarding H. Bye Construction – "Ghent" Gravel Pit.
CARRIED

Report from Michael Givens, CAO

- CAO 2016-001 being a report on Ghent Pit Application - Road Upgrade Agreement

RESOLUTION 2016-004
Moved by: Councillor Yake
Seconded by: Mayor Lennox
THAT the recommendation in CAO Report 2016-001 Ghent Pit application be amended by removing any conditions over which the MTO has jurisdiction including signage and a taper lane.
CARRIED

RESOLUTION 2016-005
Moved by: Councillor Yake
Seconded by: Mayor Lennox
THAT the recommendation in CAO Report 2016-001 Ghent Pit application be amended by amending the road agreement so that costs related to the installation of guide rails on the Reidy Bridge be a shared cost between the applicant and the municipality;
AND FURTHER THAT any future gravel pit applications using the haul route over the Reidy Bridge be apportioned a share of costs should the Township proceed with the installation of the guide rails;

AND FURTHER THAT cost sharing be based on tonnage approved under the aggregate licence.
CARRIED

RESOLUTION 2016-006
Moved by: Councillor McCabe
Seconded by: Councillor Burke
THAT the recommendation in CAO Report 2016-001 Ghent Pit application be amended by adding a clause to the road agreement to require the haul route be paved at the applicant's expense;
AND FURTHER THAT any future gravel pit applications using the haul route be apportioned a share of costs;
AND FURTHER THAT the cost sharing be based on tonnage approved under the aggregate licenced and kilometres of haul route utilized.
CARRIED

RESOLUTION 2016-007
Moved by: Councillor Burke
Seconded by: Councillor McCabe
THAT the recommendation in CAO Report 2016-001 Ghent Pit application be amended by removing the $25,000.00 lump sum from the road agreement.
CARRIED

RESOLUTION 2016-008
Moved by: Councillor Hern
Seconded by: Councillor McCabe
THAT the Council of the Township of Wellington North receive for information Report CAO 2016-001 being a report on the Ghent Pit Application-Road Upgrade Agreement;
AND FURTHER THAT the Council of the Township of Wellington North direct staff to forward the draft Road Upgrade Agreement to the Township solicitor for final review;
AND FURTHER THAT following final review the Agreement is forwarded to the applicant for their authorization.
CARRIED

Report from Michael Givens, CAO and Karren Wallace, Clerk

- CAO 2015-003/CLK 2016-001 being a report on the Strategic Plan-Committee Structure Alignment

RESOLUTION 2016-009
Moved by: Councillor McCabe
Seconded by: Councillor Burke
THAT the Council of the Corporation of the Township of Wellington North receive Report CAO 2016-003/CLK 2016-001 being a report on the Strategic Plan-Committee Structure Alignment;
AND FURTHER THAT pending future changes to the Township Committee Structure, that Council of the Township of Wellington North approve the appointment of Councillor Hern to the below committees:

- *Arthur & District Chamber of Commerce*
- *Administration and Finance Committee*
- *Economic Development Committee*
- *Recreation and Culture Committee*

AND FURTHER THAT the following Council members be removed from the following committees:

- *Administration & Finance Committee: Councillor McCabe*
- *Economic Development Committee: Councillor Yake*
- *Recreation & Culture Committee: Councillor Burke*
- *Arthur & District Chamber of Commerce: Councillor McCabe*

CARRIED

Report from Karren Wallace, Clerk

- CLK 2016-002 being a report on Sunday Gun Hunt

RESOLUTION 2016-010
Moved by: Councillor Hern
Seconded by: Councillor McCabe
THAT the Council of the Corporation of the Township of Wellington North receive Report CLK 2016-002 being a report on Sunday Gun Hunting in Wellington North.
CARRIED

RESOLUTION 2016-011
Moved by: Councillor McCabe
Seconded by: Councillor Hern
WHEREAS hunting in Ontario is regulated by the Ministry of Natural Resources;
AND WHEREAS individual municipalities may decide whether to permit Sunday gun hunting;
NOW THEREFORE BE IT RESOLVED that the Ministry of Natural Resources be notified that the Corporation of the Township of Wellington North supports and

authorizes Sunday gun hunting in the Township of Wellington North in accordance with provincial legislation;
AND FURTHER BE IT RESOLVED that staff requests the Ministry of Natural Resources to amend the appropriate regulation to include the Township of Wellington North in the list of municipalities that authorizes Sunday gun hunting in Ontario.

Councillor Burke requested a recorded vote:

Recorded Vote	**Yea**	**Nay**
Councillor Burke		X
Councillor Hern	X	
Councillor McCabe	X	
Councillor Yake		X
Mayor Lennox	X	
	3 Yeas	**2 Nays**

CARRIED

Council directed staff to prepare a resolution of support for Bill 36 the Respecting Private Property Act for Council approval and distribution to the Ministry of Natural Resources, Federation of Anglers and Hunters and other municipalities.

Report from Karren Wallace, Clerk

- CLK 2016-003 being a report on Consent Application (Vintex Inc.)

RESOLUTION 2016-012
Moved by: Councillor Burke
Seconded by: Councillor McCabe
THAT the Council of the Corporation of the Township of Wellington North receive CLK Report 2016-003 being a report on Consent Application for B119/15 (VINTEX) known As Lot 32 and Part Lot 33, Concession 1 Part of Division 3,Township Of Wellington North;
AND FURTHER THAT the Council of the Township of Wellington North supports consent application B119/15 as presented with the following conditions:

1. *THAT the Applicant satisfy all the requirements of the local municipality, financial and otherwise which the local municipality may deem to be necessary at the time of issuance of the Certificate of Consent for the proper and orderly development of the subject lands; and further that the Local Municipality file with the Secretary-Treasurer of the Planning and Land Division Committee a letter of clearance of this condition.*
2. *THAT the Applicant pay the fee of $125.00 prior to the Certificate of Consent being issued by the municipality.*
3. *THAT the Applicant receive approval from the applicable road authority in a manner deemed acceptable to that road authority for an entrance to the severed and retained parcel; and further that the applicable authority file a letter of clearance of this condition with the Secretary-Treasurer of the Planning Committee as written proof of fulfillment of this condition.*

4. *THAT the Applicant satisfy the requirements of the Local Municipality in reference to parkland dedication fee of $1,000.00 as provided for in the Planning Act, R.S.O. 1990; and that the Local Municipality file with the Secretary-Treasurer of the Planning and Land Division Committee a letter of clearance of this condition.*
5. *The Applicant shall ensure the storm water management of retained lands maintains an adequate storm water outlet;*
6. *The Applicant shall make arrangements satisfactory to the Township of Wellington North regarding the water/sanitary services on the retained and severed lot.*

CARRIED

Report from Karren Wallace, Clerk

- CLK 2016-004 being a report on Consent Application (Rice)

RESOLUTION 2016-013
Moved by: Councillor McCabe
Seconded by: Councillor Burke
THAT the Council of the Corporation of the Township of Wellington North receive CLK Report 2016-004 being a report on Consent Application for B121/15; 122/15 and 123/15 (RICE) known as Part of Park Lot 1, South of Sligo and West of Main, 657 Queen Street, Township of Wellington North;
AND FURTHER THAT the Council of the Township of Wellington North supports consent applications B121/15; 122/15 and 123/15 as presented with the following condition:

> *THAT the Owner satisfy all the requirements of the local municipality, financial and otherwise which the local municipality may deem to be necessary at the time of issuance of the Certificate of Consent for the proper and orderly development of the subject lands; and further that the Local Municipality file with the Secretary-Treasurer of the Planning and Land Division Committee a letter of clearance of this condition.*

CARRIED

Report from April Marshall, Tourism, Marketing & Promotion Manager

- EDO 2016-01 being a report on a custom annual 8.7 The River community radio advertising package

RESOLUTION 2016-014
Moved by: Councillor Burke
Seconded by: Councillor McCabe
THAT the Council of the Corporation of the Township of Wellington North receive the Tourism, Marketing & Promotion Manager Report EDO-2016-01 being a report on a Custom Annual 88.7 The River Community Radio Advertising Package;

AND FURTHER THAT the Council of the Township of Wellington North approve the coordinated approach to external communications by securing a custom annual advertising package on Northern Wellingtons new Community Radio Station 88.7 The River;
AND FURTHER THAT the Council of the Township of Wellington North direct staff who operate municipally run facilities to tune into 88.7 The River on a regular basis, when possible, to help broadcast and promote Township paid advertising.
CARRIED

Report from Matthew Aston, Director of Public Works

- PW 2016-001 being a report on the 2015-2016 Mount Forest Drinking Water System Inspection

RESOLUTION 2016-015
Moved by: Councillor McCabe
Seconded by: Councillor Burke
THAT the Council of the Corporation of the Township of Wellington North receive for information Report PW 2016-001 being a report on the 2015-2016 Mount Forest drinking water system inspection;
AND FURTHER THAT the Council of Wellington North direct staff to publish the media release as shown in Schedule B of Report PW 2016-001;
AND FURTHER THAT the Council of Wellington North direct staff to post the 2015-2016 Arthur and Mount Forest drinking water system inspection report on the Township's website.
CARRIED

Report from David Guilbault, Fire Chief

- Fire Chief 2016-001 being a report on the recruitment process for the hiring of a Fire Prevention Officer Full-Time

RESOLUTION 2016-016
Moved by: Councillor Burke
Seconded by: Councillor McCabe
THAT the Council of the Corporation of the Township of Wellington North receive for information Report Fire Chief 2016-001 being a report on the recruitment process for the hiring of a Fire Prevention Officer Full Time;
CARRIED

RESOLUTION 2016-017
Moved by: Councillor Yake
Seconded by: Councillor Hern
THAT the Council of the Township of Wellington North approve the Full Time hours of the Fire Prevention Officer be 40 hours as provided in Report Fire Chief 2016-001.
DEFEATED

Administration/Finance Committee
- Minutes, December 17, 2015

RESOLUTION 2016-018
Moved by: Councillor Hern
Seconded by: Councillor Yake
THAT the Council of the Corporation of the Township of Wellington North receive the minutes of the Administration/Finance Committee meeting held on December 17, 2015.
CARRIED

Cheque Distribution Report dated January 6, 2016

RESOLUTION 2016-019
Moved by: Councillor Yake
Seconded by: Councillor Hern
THAT the Council of the Corporation of the Township of Wellington North receive the Cheque Distribution Report dated January 6, 2016.
CARRIED

CORRESPONDENCE FOR COUNCIL'S REVIEW AND DIRECTION

Saugeen Community Radio Inc.
- Request for donation, dated December 30, 2015

RESOLUTION 2016-020
Moved by: Councillor Hern
Seconded by: Councillor Yake
THAT the Council of the Corporation of the Township of Wellington North approve a donation of $500.00 to assist Saugeen Community Radio/88.7 FM The River to purchase two premium broadcast on air microphones;
AND FURTHER THAT the donation to Saugeen Community Radio/88.7 FM The River be charged to the Administration Grants to Others/Donations (1-00-15-000-5460) and that the operating budget be adjusted accordingly.
DEFEATED

Township of Madawaska Valley
- Resolution 22-0712-15, dated December 7, 2015, regarding physician recruitment

RESOLUTION 2016-021
Moved by: Councillor Yake
Seconded by: Councillor Hern

THAT the Council of the Corporation of the Township of Wellington North support Township of Madawaska Valley resolution 22-0712-15, dated December 7, 2015, regarding physician recruitment.
CARRIED

Township of Killaloe, Hagarty and Richards
- Resolution 7, dated December 15, 2015, regarding physician recruitment

RESOLUTION 2016-022
Moved by: Councillor Yake
Seconded by: Councillor Hern
THAT the Council of the Corporation of the Township of Wellington North support Township of Killaloe, Hagarty and Richards resolution 7, dated December 15, 2015, regarding physician recruitment.
CARRIED

Cliff Booi
- Proposed Ghent Pit Zoning By-law Amendment Application, dated January 6, 2016
  - Received as information

Pat Brown
- Delegation Request regarding proposed Ghent Pit Traffic Impact Study and Peer Review
  - Received as delegation

BY-LAWS

RESOLUTION 2016-023
Moved by: Councillor Hern
Seconded by: Councillor Yake
THAT By-law Number 001-16 being a by-law to levy a special local municipality levy on the residential class of rateable property within the Township for the 2016 taxation year be read a First, Second and Third time and finally passed.
CARRIED

RESOLUTION 2016-024
Moved by: Councillor Yake
Seconded by: Councillor Hern
THAT By-law Number 002-16 be amended to include a holding provision pending the outcome of a satisfactory road use agreement between the applicant/owner and the municipality.
CARRIED

RESOLUTION 2016-025
Moved by: Councillor Yake
Seconded by: Councillor Hern
*THAT By-law Number 002-16 being a by-law to amend Zoning By-law Number 66-01 being the zoning by-law for the Township of Wellington North be read a First, Second and Third time and finally passed***.** (Part Lot 5 & 6, Concession 5 with municipal address of 9458 Concession 4N – H. Bye Construction, Ghent Pit)
CARRIED

RESOLUTION 2016-026
Moved by: Councillor Hern
Seconded by: Councillor Yake
THAT By-law Number 003-16 being a by-law to provide for an interim tax levy on all assessment within specific tax classes and to provide a penalty and interest rate for current taxes in default and tax arrears be read a First, Second and Third time and finally passed.
CARRIED

RESOLUTION 2016-027
Moved by: Councillor Yake
Seconded by: Councillor Hern
THAT By-law Number 004-16 being a by-law to authorize temporary borrowing from time to time to meet current expenditures during the fiscal year ending December 31, 2016 be read a First, Second and Third time and finally passed.
CARRIED

ITEMS FOR COUNCIL'S INFORMATION

Rural Ontario Institute
- Correspondence dated December 8, 2015 regarding nomination of Allison Vasey for Rural Youth Engagement Showcase

Drinking Water Source Protection
- DSWP Newsletter, Issue #3 – December, 2015

Guelph Wellington Crime Stoppers
- Newsletter, The Informant – Winter 2015-2016

Maitland Valley Conservation Authority
- Board of Directors Meeting #9/15 Minutes, October 21, 2015
- Board of Directors Meeting #10/15 Minutes, November 18, 2015

Wellington North Power Inc.
- Quarter 3 Report for period ending September 30, 2015

Bereaved Families of Ontario, Midwestern Region

- Correspondence received December 22, 2015 regarding Living with Loss meetings in Mount Forest

Ministry of Municipal Affairs and Housing

- Correspondence dated December 18, 2015 regarding *The Smart Growth for Our Communities Act, 2015*

Ministry of Agriculture, Food and Rural Affairs
Correspondence dated January 4, 2016 regarding Second intake of the Building Canada Fund – Small Communities Fund (SCF)

RESOLUTION 2016-028
Moved by: Councillor Hern
Seconded by: Councillor Yake
THAT the Council of the Corporation of the Township of Wellington North receive the Items for Council's Information as listed in the January 11, 2016 Regular Council Meeting Agenda.
CARRIED

CULTURAL MOMENT

'Artwork by June Wagg being featured at The Gift Artivity Centre – Renew Northern Wellingtons First Business Opening'

June Wagg is a retired schoolteacher known to many as the Conn Artist. June lives on a farm with her partner Vern in the suburbs of Conn. Her hobbies include art, photography quilting and showing horses.
June is one of the artists whose works are on display at The Gift Artivity Center – Renew Northern Wellingtons first business to open! This amazing Program helps put talented people into downtown storefronts to gain exposure, build their business, and become a sustainable enterprise.
Located at 236 Main St North in Mount Forest, The Gift Artivity Center is a place where art and activity come together. The Gift was created to serve the community of Mount Forest to enable and bring art, culture and events to celebrate the " high happy healthy " lifestyle we aspire to enjoy in the community. A bone fide art gallery, including services serving the world of art including framing , restoration and printing, as well as, a studio for patrons to acquire new skills and develop interests in the creative fields.

NOTICE OF MOTION

No notice of motion tabled.

ANNOUNCEMENTS

Councillor Yake announced that this year's Municipal Hockey Tournament will be held on April 1 and 2.

Mayor Lennox announced the following:

- Big Brother Big Sister Bowl For Kids will be held February 21, 28 and March 6.
- He will attend a meeting on January 12 regarding sponsorship of Syrian refugees and is looking for input from Councillors as to what type of assistance Wellington North may be in a position to provide-not specifically financial.
- Wellington North Budget meeting on January 18, 2016 at 4:30 p.m.
- Wellington County draft Budget proposes a 2.8% levy increase

CONFIRMING BY-LAW

RESOLUTION 2016-029
Moved by: Councillor Hern
Seconded by: Councillor Yake
THAT By-law Number 005-15 being a By-law to Confirm the Proceedings of the Council of the Corporation of the Township of Wellington North at its Regular Meeting held on January 11, 2016 be read a First, Second and Third time and finally passed.
CARRIED

ADJOURNMENT

RESOLUTION 2016-030
Moved by: Councillor Yake
Seconded by: Councillor Hern
THAT the Regular Council meeting of January 11, 2016 be adjourned at 9:59 p.m.
CARRIED

MAYOR **CLERK**

TOWNSHIP OF WELLINGTON NORTH
Regular Meeting of Council

MOVED BY: _____ DATE: January 25, 2016

SECONDED BY: _____ RES. NO.: 2016-

WHEREAS the Township of Wellington North recently passed a resolution to permit Sunday Gun Hunting in Wellington North be effective April 1, 2016;

AND WHEREAS in the process of public consultation on permitting Sunday Gun Hunting in the municipality, the issue of trespassing on private property by the general public and hunters was raised;

AND WHEREAS a private member's Bill 36, being an Act to amend the Trespass to Property Act has received first and second reading in the legislature and has now been referred to the Standing Committee on Justice Policy;

AND WHEREAS the amendments to the Act in Bill 36 include amending fines ranging from $500.00 to $1,000.00 under Section 2(1) b) and increasing fines to $25,000.00 under Section 12 (1) of the Act;

NOW BE IT RESOLVED THAT the Township of Wellington North hereby requests that the Minister of the Attorney General support the provisions in Bill 36 to discourage trespassing on private property;

And FURTHER THAT copies of this resolution be sent to the Standing Committee on Justice Policy, the Minister of the Attorney General, Minister of Natural Resources and Forestry, all municipalities in Ontario, MPP Sylvia Jones, Dufferin-Caledon, MPP Randy Pettapiece Perth- Wellington, MPP Ted Arnott Wellington-Halton Hills, the Ontario Federation of Agriculture and the Ontario Federation of Angler's and Hunters.

MAYOR _____

☐ CARRIED ☐ DEFEATED

7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com
519.848.3620
1.866.848.3620 FAX 519.848.3228
Plan to Simply Explore.
www.simplyexplore.ca

January 26, 2016

Ontario Federation of Anglers and Hunters
PO Box 2800 / 4601 Guthrie Dr
Peterborough, ON K9J 8L5

Dear Sirs:

RE: Trespass on Private Property

On behalf of the Township of Wellington North, I would like to advise that our municipality recently passed the following resolution to support Sunday gun hunting:

> ***WHEREAS*** *hunting in Ontario is regulated by the Ministry of Natural Resources;*
> ***AND WHEREAS*** *individual municipalities may decide whether to permit Sunday gun hunting;*
> ***NOW THEREFORE BE IT RESOLVED*** *that the Ministry of Natural Resources be notified that the Corporation of the Township of Wellington North supports and authorizes Sunday gun hunting in the Township of Wellington North in accordance with provincial legislation;*
> ***AND FURTHER BE IT RESOLVED*** *that staff requests the Ministry of Natural Resources to amend the appropriate regulation to include the Township of Wellington North in the list of municipalities that authorizes Sunday gun hunting in Ontario.*

As Council considered supporting Sunday gun hunting, many members of the public provided written and verbal comments in opposition to the Sunday gun hunt. May raised concerns around hunter's trespassing on their private property and felt that approving Sunday gun hunting would provide a further opportunity for trespassers to access private property without the required permission.

While in support of the Sunday gun hunt, Council of the Township of Wellington North would encourage the Ontario Federation of Angler's to inform their members that the issue of trespassing may be an obstacle to other municipalities supporting this initiative and to encourage better behaviour on the part of the OFAH members.

The Trespass to Property Act provides that permission of the property owner must be obtained either in writing or orally and the proof of which rests on the individual wishing to enter onto someone else's property.

Bill 36 is a private members Bill which proposes the following amendment to the Trespass Act:

- *Subsection 2 (1) of the Trespass to Property Act is amended by striking out "a fine of not more than $2,000" in the portion after clause (b) and substituting "a fine of not less than $500 and not more than $2,000".*
- *Subsection 12 (1) of the Act is amended by striking out "for an amount in excess of $1,000" at the end and substituting "for an amount in excess of $25,000".*

The Bill has received first and second reading and has now been referred to the Standing Committee on Justice Policy. The Justice Policy committee meeting has not been set, however you can attend at the committee to express support to the Bill or you can provide written submissions for the Committee's consideration.

Council of the Township of Wellington North strongly supports more stringent penalties associated with trespassing and trusts that your Federation will also support amendments to the Trespass Act that further deter trespassing on to private property.

Yours truly,

Mayor Andrew Lennox

7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com
519.848.3620
1.866.848.3620 FAX 519.848.3228

Delegation Request Form

Name of Delegate(s

Lynda White Vice President;

Paul Smith General Manager_____

☐ Attending as an individual OR ☑ Representing a group/organization/business

Name of Group/Organization/Business
__All Treat Farms Limited_____

Contact Information

Mail: lynda White, 7963 Wellington Rd 109, Arthur N0G1A0

Email: lyndaw@allTreat.com.

Telephone: 519-848-3145 x 2224

Type of Meeting

☑ Council OR ☐ Committee (specify which committee) _____

Date of Meeting January 25/16.

Subject Matter (submit your complete delegation submission with this form)
Business update for All Treat Farms Limited

_____

Recommendation/Request of Council (what action you would like the Township of Wellington North to take with respect to your matter-use a separate page if required)

We want to keep council informed on business at All Treat

_____

SIGNATURE: Lynda White V.P.

Delegations shall not be permitted to address Council or its Committees on the following matters:

- Labour relations or employee negotiations
- Litigation that is either expected to proceed, that is currently proceeding, or that has already been decided by a trier of fact
- Other matters before a tribunal or that have been ruled on at a tribunal
- Tenders, RFPs or other procurement matters
- Any other matter that is properly the subject of the closed meeting provisions in the *Municipal Act,*

7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com
519.848.3620
1.866.848.3620 FAX 519.848.3228

Delegation Request Form

Name of Delegate(s) Tom Sullivan

☐ Attending as an individual OR ☑ Representing a group/organization/business

Name of Group/Organization/Business
Mount Forest Group Sponsoring Syrian Refugee Family

Contact Information

Mail: contact Andy Lennox

Email: tsullivan@wightman.ca

Telephone:

Type of Meeting

☑ Council OR ☐ Committee (specify which committee) _____

Date of Meeting January 25, 2016

Subject Matter (submit your complete delegation submission with this form)
Inform Council on progress and request support

Recommendation/Request of Council (what action you would like the Township of Wellington North to take with respect to your matter-use a separate page if required)

Council provide a small amount of bridge financing until more donations come in

SIGNATURE: per Tom Sullivan

Notice of Collection/Use/Disclosure: *All information submitted in support of meetings of Council/Planning Committee is collected in accordance with the Municipal Act, 2001, s. 8 and 239 (1) and may be used in deliberations, and disclosed in full, including email, names, and addresses on agendas and to persons requesting access to records of Council/Planning Committee. All information submitted to the Municipality is subject to disclosure under the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA). Questions about this notice of collection should be directed to the Clerk's Office (519) 848-3620.*

7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com

519.848.3620
1.866.848.3620 FAX 519.848.3228

Plan to Simply Explore.
www.simplyexplore.ca

TO:	**MAYOR AND MEMBERS OF COUNCIL** **MEETING OF JANUARY 25, 2016**
FROM:	**KARREN WALLACE, CLERK**
SUBJECT:	**REPORT CLK 2016-008 BEING A REPORT REGARDING NOTICE OF DEFAULT *MUNICIPAL ELECTIONS ACT, 1996***

RECOMMENDATION

THAT Report CLK 2016-008 being a report on regarding a Notice of Default under the Municipal Elections Act, 1996 be received for information.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

N/A

BACKGROUND

One candidate who ran for office in the 2015 Ward 3 by-election failed to file documentation pursuant to the requirement in Section 78 of the *Municipal Elections Act, 1996.*

Section 80(3) of the Act provides that the Clerk shall notify the candidate and municipal Council of the default. This report and the Notice of Default sent to the candidate by registered mail, satisfies that requirement.

The Notice of Default provided to the candidate is attached hereto as Schedule “A”.

FINANCIAL CONSIDERATIONS

There are no costs associated with receiving this report.

STRATEGIC PLAN

Do the report's recommendations advance the Strategy's implementation?

☐ Yes ☐ No x N/A

PREPARED BY:	RECOMMENDED BY:
Karren Wallace, Clerk	*Michael Givens, CAO*

KARREN WALLACE CLERK	MICHAEL GIVENS CHIEF ADMINISTRATIVE OFFICER

SCHEDULE A

NOTICE OF DEFAULT

Municipal Elections Act, 1996 (s. 80 (3))

TO:

David Lorne Culp
481 Eliza Street
Arthur, ON N0G 1A0

Candidate for Councillor Ward 3

FROM:

The Clerk, or designated election official of
THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH

TAKE NOTICE that you are in default of the requirements of the Municipal Elections Act, 1996, because:

A. You failed to file documents with the Municipal Clerk as required by Section 78 of the Municipal Elections Act 1996 on or before the relevant date, or
B. You failed to pay the amount of the surplus shown in documents which were filed with the Municipal Clerk by the relevant date as required by Section 79 of the Municipal Elections Act, 1996, or
C. A document filed under Section 78 of the Municipal Elections Act, 1996 shows on its face that you have incurred expenses exceeding the amount permitted under Section 76 of that Act.

NOTICE OF DEFAULT

If this notice indicates that you have failed to file a documents required by Section 78 or 79.1 of the Municipal Elections Act, the following provisions and penalties apply:

- Until the next regular election has taken place, you are ineligible to be elected or appointed to any office to which the Municipal Elections Act, 1996 applies.

NOTICE OF PENALTIES

Sections 91 and 92 of the Municipal Elections Act, 1996 set out penalties with respect to violations under the Act as follows:

91. (1) If a person is convicted of a corrupt practice under this Act, or of an offence under the Criminal Code (Canada) in connection with an act or omission that relates to an election to which this Act applies, then, in addition to any other penalty provided for in this Act,

(a) Any office to which the person was elected is forfeited and becomes vacant; and
(b) The person is ineligible to be nominated for, or elected or appointed to, any office until the next two regular elections have taken place after the election to which the offence relates.

Exception

(2) However, if the presiding judge finds that the person committed the corrupt practice or offence under the Criminal Code (Canada) without any intent of causing or contributing to a false outcome of the election, clause (1) (b) does not apply.

92. (3) If the expenses incurred by or on behalf of a candidate exceed the amount determined for the office under section 76, the candidate is liable to a fine equal to the excess, in addition to any other penalty provided for in the Act.

(5) A candidate is guilty of an offence and, on conviction, in addition to any other penalty that may be imposed under this Act, is subject to the penalties described in subsection 80 (2) if he or she,
(a) files a document under Section 78 or 79.1 that is incorrect or otherwise does not comply with that section; or
(b) incurs expenses that exceed what is permitted under section 76.

January 15, 2016
Date

Karren Wallace
Municipal Clerk or designate

7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com

519.848.3620
1.866.848.3620 FAX 519.848.3228

Plan to Simply Explore.
www.simplyexplore.ca

TO:	**MAYOR AND MEMBERS OF COUNCIL** **MEETING OF JANUARY 25, 2016**

FROM:	**DARREN JONES** **CHIEF BUILDING OFFICIAL**

SUBJECT:	**CBO 2016-01 BUILDING PERMIT REVIEW** **PERIOD ENDING DECEMBER 31, 2015**

RECOMMENDATION

THAT Council of the Corporation of the Township of Wellington North receive the Building Permit Review for the period ending December 31, 2015.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

1. CBO 2015-18 Building Permit Review Period Ending November 30, 2015

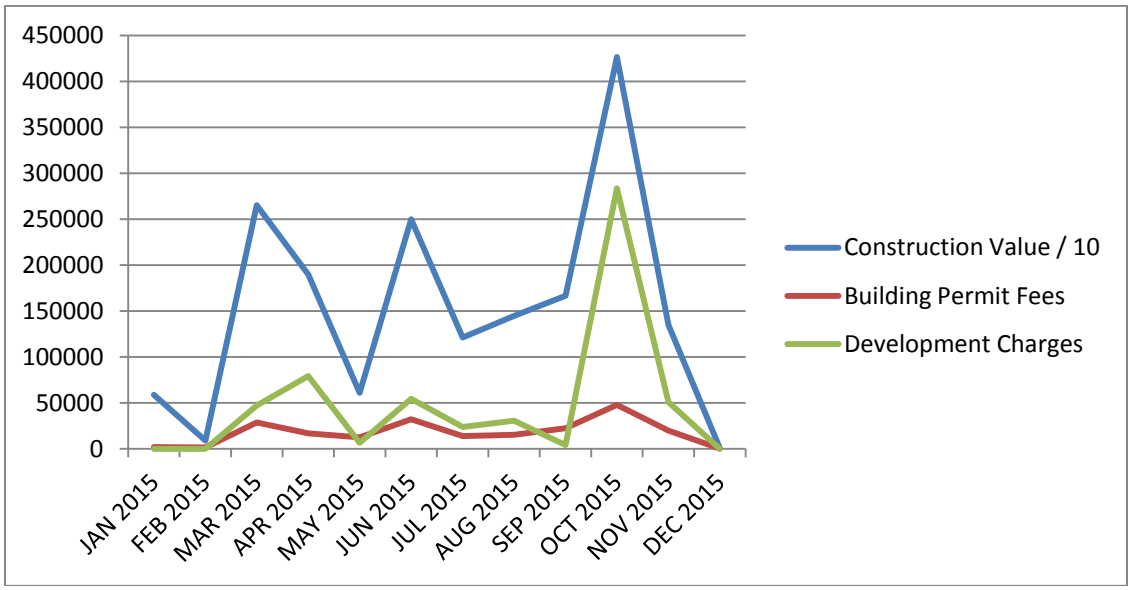
BACKGROUND

PROJECT DESCRIPTION	PERMITS ISSUED	CONSTRUCTION VALUE	PERMIT FEES	DEV. CHARGES
Single Family Dwelling	0	0.00	0.00	0.00
Multi Family Dwelling	0	0.00	0.00	0.00
Additions / Renovations	1	8,000.00	348.72	0.00
Garages / Sheds	0	0.00	0.00	0.00
Pool Enclosures / Decks	0	0.00	0.00	0.00
Commercial	0	0.00	0.00	0.00
Assembly	0	0.00	0.00	0.00
Industrial	0	0.00	0.00	0.00
Institutional	0	0.00	0.00	0.00

Agricultural	0	0.00	0.00	0.00
Sewage System	0	0.00	0.00	0.00
Demolition	0	0.00	0.00	0.00

Total December 2015	1	8,000.00	348.72	0.00
Total Year to Date 2015	189	18,432,959.00	224,977.66	589,018.66

12 Month Average	16	1,524,121.58	17,812.57	48,421.85



10 Year Monthly Average	7	681,210.00	9,786.91	18,490.30
10 Year, Year to Date Average	221	22,474,143.50	206,039.20	298,820.22

FINANCIAL CONSIDERATIONS

None.

STRATEGIC PLAN

This report does not directly relate to the implementation of the Township of Wellington North Strategic Plan.

Do the report's recommendations advance the Strategy's implementation?

☐ Yes **X** No ☐ N/A

Which pillars does this report support?

☐ Community Growth Plan
☐ Human Resource Plan
☐ Brand and Identity
☐ Strategic Partnerships
☐ Community Service Review
☐ Corporate Communication Plan
☐ Positive Healthy Work Environment
X None

PREPARED BY:	**RECOMMENDED BY:**
	*Mike Givens*
DARREN JONES **CHIEF BUILDING OFFICIAL**	**MICHAEL GIVENS** **CHIEF ADMINISTRATIVE OFFICER**

7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com
519.848.3620
1.866.848.3620 FAX 519.848.3228
Plan to Simply Explore.
www.simplyexplore.ca

TO:	**MAYOR AND MEMBERS OF COUNCIL** **MEETING OF JANUARY 25, 2016**

FROM:	**MATTHEW ASTON, DIRECTOR OF PUBLIC WORKS**

SUBJECT:	**REPORT PW 2016-003 BEING A REPORT ON THE TOWNSHIP'S CONNECTING LINK FUNDING APPLICATION**

RECOMMENDATION

THAT Report PW 2016-003 being a report on the Township's connecting link funding application be received;

AND FURTHER THAT the Council of the Township of Wellington North direct staff to apply for connecting link funding for the Queen Street West (Highway 89) full depth asphalt resurfacing project between Sligo Rd W and 100m east of Durham St W;

AND FURTHER THAT Resolution 2015-514 passed at the November 23, 2015 meeting of Council to direct staff to apply for connecting link funding for the Queen Street East (Highway 89) project between the west-side of Bridge 516 and Egremont Street be repealed.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

Report PW 2015-088 being a report on the new connecting link funding program.

BACKGROUND

In November 2015 the provincial government announced Ontario's new connecting links program, with an available funding of $15 million annually for the rehabilitatation of the 352 km of road and 70 bridges in 77 municipalities, which make up the province's connecting link assets.

At the November 23rd meeting of Council, staff recommended and Council endorsed a Queen St E (Highway 89) project be used for application for the new connecting link funding program. Since that time, staff have reconsidered possible connecting link projects and wish to recommend a full depth asphalt resurfacing project for Queen St W between Sligo Rd W and 100m east of Durham St W in Mount Forest. Staff feel the Queen St W project rehabilitates a more needy section of Queen St and this area does not require deep service work.

This section of Queen St W was last resurfaced (shave and pave) in 1989 and is in poor condition. The proposed project would replace the existing asphalt and rebuild the roads shoulders to a semi-urban standard. This would increase driveability as well as road safety for bikers and horse and buggies.

FINANCIAL CONSIDERATIONS

BM Ross and Associates has been engaged to support Township staff with this application.

This project has an estimated total cost of $458,990 plus applicable taxes – see estimate in Schedule A. The request from the Township will be for 90% of project costs.

STRATEGIC PLAN

Do the report's recommendations advance the Strategy's implementation?

X Yes ☐ No ☐ N/A

Which pillars does this report support?

X Community Growth Plan
☐ Human Resource Plan
☐ Brand and Identity
☐ Strategic Partnerships

X Community Service Review
☐ Corporate Communication Plan
☐ Positive Healthy Work Environment

Township's connecting link assets are an important part of the local transportation infrastructure in both Arthur and Mount Forest. The local provincial highways, and subsequent connecting links, provide valuable transportation cooridors for commerce.

PREPARED BY:	RECOMMENDED BY:
Matthew Aston	*Michael Givens, CAO*
MATTHEW ASTON **DIRECTOR OF PUBLIC WORKS**	**MICHAEL GIVENS** **CHIEF ADMINISTRATIVE OFFICER**

Schedule A – Project Cost Estimate

(1)

Hwy 89 Connecting Link - 16007
100m East of Durham Street to West Connecting Link Limit
Opinion of Probable Cost

Date: January 20, 2016

Road Resurfacing (Cold In-Place Recycling)

Item	Quantity	Unit	Unit Price	Amount	SUCLA	Township
Excavation: Shoulders	130	cu.m.	$12.00	$1,560.00	$1,560.00	
Excavation: Ditches	430	m	$15.00	$6,450.00	$6,450.00	
Granular 'A'	660	t	$14.00	$9,240.00	$9,240.00	
Cold In-Place recycling	4390	sq.m.	$14.00	$61,460.00	$61,460.00	
Hot mix SP12.5: Road	500	t	$110.00	$55,000.00	$55,000.00	
Hot mix SP12.5: Shoulders	530	t	$110.00	$58,300.00	$58,300.00	
Miscellaneous asphalt	310	sq.m.	$24.00	$7,440.00	$7,440.00	
Restoring Roadway Surfaces (Shoulders)	3300	sq.m.	$3.00	$9,900.00	$9,900.00	
Remove bituminous pavement	310	sq.m.	$5.00	$1,550.00	$1,550.00	
Topsoil	5430	sq.m.	$6.00	$32,580.00	$32,580.00	
Sod	5430	sq.m.	$5.50	$29,865.00	$29,865.00	
Subtotal				$273,345.00	$273,345.00	$0.00

Drainage

Item	Quantity	Unit	Unit Price	Amount	SUCLA	Township
Remove & Replace Culverts						
a) 450mm dia. - McLellan's	18	m	$200.00	$3,600.00	$3,600.00	
b) 450mm dia. - #685 Queen Street	12	m	$200.00	$2,400.00	$2,400.00	
600 x 600 mm catchbasins	4	ea.	$2,000.00	$8,000.00	$8,000.00	
150mm dia. Perforated subdrain	650	m	$35.00	$22,750.00	$22,750.00	
Subtotal				$36,750.00	$36,750.00	$0.00

Miscellaneous

Item	Quantity	Unit	Unit Price	Amount	SUCLA	Township
Traffic Control	1	L.S.	$15,000.00	$15,000.00	$15,000.00	
Pavement Markings	1	L.S.	$5,000.00	$5,000.00	$5,000.00	
Project Signs	1	L.S.	$1,500.00	$1,500.00	$1,500.00	
Lump sum for other requirements	1	L.S.	$13,000.00	$13,000.00	$13,000.00	
Subtotal				$34,500.00	$34,500.00	$0.00

Summary

Item	Amount	SUCLA	Township
Road Construction	$273,345.00	$273,345.00	$0.00
Drainage	$36,750.00	$36,750.00	$0.00
Miscellaneous	$34,500.00	$34,500.00	$0.00
Subtotal	$344,595.00	$344,595.00	$0.00
Bonding and Insurance (3%)	$10,337.85	$10,337.85	$0.00
Subtotal	$354,932.85	$354,932.85	$0.00
Contingency (10%)	$35,493.29	$35,493.29	$0.00
Total Construction	$390,426.14	$390,426.14	$0.00

Z:\16007-Wellington_North-Hwy_89_2016_CL_Application\Projects\Estimates\16007-Hwy89-CL-Resurfacing.xls16Jan20-Cold In-place

(2)

Engineering

Design, tendering, construction review and contract administration (15%)	$58,563.92	$58,563.92	$0.00
Geotechnical investigation	$10,000.00	$10,000.00	$0.00
Total engineering & geotechnical investigation	$68,563.92	$68,563.92	$0.00

Total Construction and Engineering

Total	$458,990.06	$458,990.06	$0.00
H.S.T. (13%)	$59,668.71	$59,668.71	$0.00
Total	$518,658.77	$518,658.77	$0.00

7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com
519.848.3620
1.866.848.3620 FAX 519.848.3228
Plan to Simply Explore.
www.simplyexplore.ca

TO:	**MAYOR AND MEMBERS OF COUNCIL** **MEETING OF JANUARY 25, 2016**

FROM:	**MATTHEW ASTON, DIRECTOR OF PUBLIC WORKS**

SUBJECT:	**REPORT PW 2016-005 BEING A REPORT ON AN UPDATE TO THE TOWNSHIP'S BRIDGE LOAD LIMIT BY-LAW**

RECOMMENDATION

THAT Report PW 2016-005 being a report on an update to the Township's bridge load limit by-law be received;

AND FURTHER THAT the Mayor and Clerk be authorized to sign a by-law regarding the Township of Wellington's bridge load limit.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

NA

BACKGROUND

Township of Wellington North has three bridge load limit by-laws that are currently inforce: by-law # 93-07, by-law # 15-14 and by-law # 60-14.

The objectives of updating the bridge load limit by-laws are the following:

1. Remove load limit on Bridge 11 on Concession 11 following the Township's 2015 rehabiliation work;
2. Remove load limit on Bridge 36 on East-West Luther Townline as this bridge is owned by Wellington County;
3. Add load limit to Bridge 33 on East-West Luther Townline as recommended by the Township's 2015 bridge inspection report; and
4. Consolidate all, known, existing load limit by-laws into a single by-law.

Load limit signage will be installed by Township staff at Bridge 33 on East-West Luther Townline. Bridge 33 is a bridge that is jointly owned by Wellington North and Grand Valley Townships.

FINANCIAL CONSIDERATIONS

The cost of purchasing and installing load limit signage is minimal.

STRATEGIC PLAN

Do the report's recommendations advance the Strategy's implementation?

X Yes ☐ No ☐ N/A

Which pillars does this report support?

☐ Community Growth Plan
☐ Human Resource Plan
☐ Brand and Identity
☐ Strategic Partnerships
X Community Service Review
X Corporate Communication Plan
☐ Positive Healthy Work Environment

This staff review of the Township bridge load limits ensures signage is supported by Township by-law. The act of consolidating these by-law into one makes future reference to Township load limits easier to determine.

PREPARED BY:	RECOMMENDED BY:
Matthew Aston	*Michael Givens, CAO*
MATTHEW ASTON **DIRECTOR OF PUBLIC WORKS**	**MICHAEL GIVENS** **CHIEF ADMINISTRATIVE OFFICER**

7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com
519.848.3620
1.866.848.3620 FAX 519.848.3228

TO:	**MAYOR AND MEMBERS OF COUNCIL** **MEETING OF JANUARY 25, 2016**

FROM:	**MATTHEW ASTON, DIRECTOR OF PUBLIC WORKS** **MELISSA IRVINE, DRINKING WATER COMPLIANCE ANALYST**

SUBJECT:	**REPORT PW 2016-007 BEING A REPORT ON THE TOWNSHIP'S DRINKING WATER SYSTEM FINANCIAL PLAN (2016 – 2021)**

RECOMMENDATION

THAT Report PW 2016-007 being a report on the Township's drinking water system financial plan 2016-2021 be received;

AND FURTHER THAT the Township of Wellington North financial plan (2016-2021) prepared by Watson & Associates Economists Ltd. dated January 15, 2016 be approved;

AND FURTHER THAT the Council of the Township of Wellington North direct staff to publish on the Township website the "Water and Wastewater Rate Study" dated December 2, 2015 and "Water Ontario Regulation 453/07 Financial Plan" dated January 15, 2016.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

Report TR 2015-21 being a report on the Water and Wastewater Rate Study.

Water and Wastewater Rate Study prepared by Watson & Associates Economists Ltd. dated December 2, 2015 – attached as Schedule A.

BACKGROUND

Township completed the water and wastewater rate study on December 2, 2015. The details of this rate study were presented and approved at the December 7th meeting of Council. 2016 water and wastewater rates were approved by-law at the December 7, 2015 meeting of Council.

Ontario Regulation 453/07 requires that drinking water system owner's have an approved financial plan as part of the municipal drinking water license program. The Township's license renewal will be submitted to the MOECC on February 1, 2016.

The financial plan dated January 15, 2016, attached as Schedule B, was prepared by Watson & Associates Economists Ltd. based on the rate study that was completed December 2, 2015.

FINANCIAL CONSIDERATIONS

NA

STRATEGIC PLAN

Do the report's recommendations advance the Strategy's implementation?

X Yes ☐ No ☐ N/A

Which pillars does this report support?

X Community Growth Plan
☐ Human Resource Plan
☐ Brand and Identity
☐ Strategic Partnerships

X Community Service Review
☐ Corporate Communication Plan
☐ Positive Healthy Work Environment

A community's ability and capacity to provide clean and safe drinking water is a prerequisite to growth.

PREPARED BY:	RECOMMENDED BY:
Matthew Aston	*Michael Givens, CAO*
Melissa Irvine	

MATTHEW ASTON
DIRECTOR OF PUBLIC WORKS

MICHAEL GIVENS
CHIEF ADMINISTRATIVE OFFICER

MELISSA IRVINE
DRINKING WATER COMPLIANCE ANALYST

The Township of Wellington North

Water and Wastewater Rate Study

December 2, 2015

Watson & Associates ECONOMISTS LTD.

Plaza Three
101–2000 Argentia Rd.
Mississauga, Ontario
Canada L5N 1V9

Phone: (905) 272-3600

Fax: (905) 272-3602

e-mail: info@watson-econ.ca

www.watson-econ.ca

Planning for growth

Contents

List of Acronyms and Abbreviations

C.O.M.R.I.F.	Canada-Ontario Municipal Rural Infrastructure Fund
D.C.A.	Development Charges Act
F.I.R.	Financial Information Return
I.C.I.	Industrial, Commercial, and Institutional
I.O.	Infrastructure Ontario
M.I.I.I.	Municipal Infrastructure Investment Initiative
M.O.E.	Ministry of Environment
O.M.B.	Ontario Municipal Board
O.Reg.	Ontario Regulation
O.S.I.F.A.	Ontario Strategic Infrastructure Financing Authority
O.S.T.A.R.	Ontario Small Town and Rural Development Infrastructure Initiative
P.S.A.B.	Public Sector Accounting Board
S.W.S.S.A.	Sustainable Water and Sewage Systems Act, 2002

Executive Summary

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

The analysis presented herein, provides for the following:

- Capital spending program for water and wastewater (2015-2021) is $17.09 million and $18.15 million (inflated) respectively.
- Annual operating expenditures are assumed to increase by 2% per annum for most expenditures. Expenditures related to utilities, fuels, chemicals and other materials have been increased at 5% per annum.
- The present rate structure (flat rate for non-metered users and constant volume rate for metered users) is continued.
- Existing water customers total 3,247 (2,822 non-metered and 425 metered). This is forecasted to increase by 309 customers at the end of 10 years.
- Existing wastewater customers total 3,131 (2,723 non-metered and 408 metered). The same level of increase as water is assumed over the period.

Based on the above information, the flat rates for water and wastewater are anticipated to stay constant from 2016 – 2017 and increase by 2% per year for the remainder of the forecast period (2018 – 2021). The water and wastewater volume rates are also anticipated to remain constant from 2016 – 2017 and increase by 2% per year for the remainder of the forecast period (2018 – 2021).

Tables ES-1 and ES-2 summarize the recommended water and wastewater rates based on the analysis provided herein over the forecast period:

Table ES-1

Residential Water	2015 (Existing)	2016 (Proposed)	2017	2018	2019	2020	2021
Monthly Residential Flat Rate	45.67	45.69	45.67	46.58	47.51	48.46	49.43
Annual Residential Flat Rate (rounded)	548	548	548	559	570	582	593
Monthly I.C.I. Flat Rate	54.75	54.82	55.95	57.10	58.28	59.48	52.27
Annual I.C.I. Flat Rate (rounded)	657	658	671	685	699	714	627
Metered I.C.I. Volume Rates	2.01	2.01	2.01	2.05	2.09	2.13	2.18

Table ES-2

Residential Wastewater	2015 (Existing)	2016 (Proposed)	2017	2018	2019	2020	2021
Monthly Residential Flat Rate	56.17	56.17	56.17	57.29	58.44	59.60	60.80
Annual Residential Flat Rate (rounded)	674	674	674	687	701	715	730
Monthly I.C.I. Flat Rate	67.33	67.33	68.68	70.05	71.45	72.88	25.04
Annual I.C.I. Flat Rate (rounded)	808	808	824	841	857	875	301
Metered I.C.I. Volume Rates	2.47	2.47	2.47	2.52	2.57	2.62	2.67

1. Introduction

1.1 Background

The Township of Wellington North is the result of the amalgamation in 1999 of the Village of Arthur, the Township of Arthur, the Township of West Luther, the Town of Mount Forest, and portions of the Township of West Garafraxa and the Township of Peel. Municipal water systems had been established in Arthur and Mount Forest prior to amalgamation and these continued in Wellington North. The Township of Wellington North currently services 3,247 (2,822 non-metered and 425 metered) water customers and 3,131 (2,723 non-metered and 408 metered) wastewater customers. The non-metered customers are consist mainly of residential customers, while metered customers are all non-residential I.C.I. (Industrial, Commercial, and Institutional) customers. The Arthur water system consist of approximately 17.9km of watermains, three drilled wells, two pump houses, diesel generator, and two elevated storage tanks. The Mount Forest water system consist of approximately 30.3km of watermains, four groundwater wells, four pump houses, and a standpipe.

The water and wastewater systems include both metered and non-metered customers utilizing a flat rate structure for non-metered customers (mainly residential), as well as a volume charge for metered customers (I.C.I. only) which is calculated on a per cubic metre basis. Table 1-1 provides the existing rates presently in effect. It is noted that although the current I.C.I. customers are predominately all metered, a flat rate is provided for those that are currently un-metered, or will be in the future.

Table 1-1
Township of Wellington North
Water and Wastewater Rates - 2015

2015 - Water Billing Rates		2015 - Wastewater Billing Rates	
Flat Rate - Monthly		**Flat Rate - Monthly**	
$ 45.67	Per Residential	$ 56.17	Per Residential
$ 54.75	Per Non-Residential	$ 67.33	Per Non-Residential
Volume Charge		**Volume Charge**	
$ 2.010	per m^3	$ 2.470	per m^3

With the legislative changes being made across Ontario as a result of the Walkerton crisis, Municipalities are required to conform to new statutes governing the management

of water and wastewater systems. Watson & Associates Economists Ltd. was retained by the Township of Wellington North to assist in addressing these changes in a proactive manner as they relate to the water and wastewater systems. The assessment provided herein addresses changes recommended to the water and wastewater rates based on the most current information and forecasts the implications over the next ten year period.

1.2 Study Process

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

- Identify all current and future water and wastewater system capital needs to assess the immediate and longer-term implications;
- Identify potential methods of cost recovery from the capital needs listing. These recovery methods may include other statutory authorities (e.g. Development Charges, Municipal Act, etc.) as an offset to recovery through the water and wastewater rates;
- Identify existing operating costs by component and estimate future operating costs over the next ten years. This assessment identifies fixed and variable costs in order to project those costs sensitive to changes to the existing infrastructure inventory, as well as costs which may increase commensurate with growth; and
- Provide staff and Committee/Council the findings to assist in gaining approval of the rates for 2016 and future years.

1.3 Regulatory Changes in Ontario

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

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

The legislation which would have most impacted municipal water and wastewater rates was the Sustainable Water and Sewage Systems Act (S.W.S.S.A.) which would have required municipalities to implement full cost pricing. The Act was enacted in 2002, however, had not been implemented pending the approval of its regulations. The Act was repealed as of January 1, 2013. It is expected that the provisions of the Water Opportunities Act will implement the fundamental requirements of S.W.S.S.A. The following sections describe these various resulting changes.

1.4 Sustainable Water and Sewage Systems Act

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

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

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

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

engineer's certification and the auditor's opinion. The regulations would stipulate the timing for this report.

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

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

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

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

1.5 Financial Plans Regulation

On August 16, 2007, the M.O.E. passed O.Reg 453/07 which requires the preparation of financial plans for water (and wastewater) systems. The M.O.E. has also provided a

Financial Plan Guidance Document to assist in preparing the plans. A brief summary of the key elements of the regulation is provided below:

- The financial plan will represent one of the key elements for the Municipality to obtain its Drinking Water License;
- The financial plans shall be for a period of at least six years but longer planning horizons are encouraged;
- As the regulation is under the Drinking Water Act, the preparation of the plan is mandatory for water and encouraged for wastewater;
- The plan is considered a living document (i.e. will be updated as annual budgets are prepared) but will need to be undertaken at a minimum every five years;
- The plans generally require the forecasting of capital, operating and reserve fund positions, providing detailed inventories, forecasting future users and volume usage and corresponding calculation of rates. In addition, P.S.A.B. information on the system must be provided for each year of the forecast (i.e. total non-financial assets, tangible capital asset acquisitions, tangible capital asset construction, betterments, write-downs, disposals, total liabilities and net debt);
- The financial plans must be made available to the public (at no charge) upon request and be available on the Municipality's website. The availability of this information must also be advertised; and
- The financial plans are to be approved by Resolution of the Council or governing body indicating that the drinking water system is financially viable.

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

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

Principle #1: Ongoing public engagement and transparency can build support for, and confidence in, financial plans and the system(s) to which they relate.

Principle #2: An integrated approach to planning among water, wastewater, and stormwater systems is desirable given the inherent relationship among these services.

Principle #3: Revenues collected for the provision of water and wastewater services should ultimately be used to meet the needs of those services.

Principle #4: Lifecycle planning with mid-course corrections is preferable to planning over the short-term, or not planning at all.

Principle #5: An asset management plan is a key input to the development of a financial plan.

Principle #6: A sustainable level of revenue allows for reliable service that meets or exceeds environmental protection standards, while providing sufficient resources for future rehabilitation and replacement needs.

Principle #7: Ensuring users pay for the services they are provided leads to equitable outcomes and can improve conservation. In general, metering and the use of rates can help ensure users pay for services received.

Principle #8: Financial Plans are "living" documents that require continuous improvement. Comparing the accuracy of financial projections with actual results can lead to improved planning in the future.

Principle #9: Financial plans benefit from the close collaboration of various groups, including engineers, accountants, auditors, utility staff, and municipal council.

1.6 Water Opportunities Act, 2010

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

On November 29, 2010, Bill 72, the Water Opportunities Act, 2010 received Royal Assent.

The Act provides for the following elements:

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

With regard to the sustainability plans:

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

The Financial Plan shall include:

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

Performance indicators will be established by service:

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

Regulations will prescribe:

- Timing;

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

As noted earlier, it is expected that this Act will implement the principles of the Sustainable Water and Sewage Systems Act once all regulations are put in place.

1.7 Forecast Growth and Servicing Requirements

The Township of Wellington North services 3,247 (2,822 non-metered and 425 metered) water customers and 3,131 (2,723 non-metered and 408 metered). Information on the existing number of customers and existing billable volumes was obtained from the Township.

For future water and wastewater customers to be added to the systems, consideration has been given to development potential within the serviced areas of the Township over the forecast period 2015-2021.

The growth forecast provided herein is somewhat lower than the forecast used for the Township's development charge study. For operating revenue purposes it would be undesirable to forecast too high as it could produce a potential operating deficit should the growth not materialize. However, forecasting higher amounts for development charge purposes ensures that capital infrastructure is in place so as not to inhibit development.

Table 1-2 provides for the forecast of water users and volumes for Wellington North while Table 1-3 provides the forecast of wastewater users and volumes.

Table 1-2
2015-2025 Water System Forecast

Water Users Forecast

Year	Total Users	2015	2016	2017	2018	2019	2020	2021
2015	27	14	27	27	27	27	27	27
2016	29		15	29	29	29	29	29
2017	29			15	29	29	29	29
2018	29				15	29	29	29
2019	29					15	29	29
2020	29						15	29
2021	35							18
2022	34							
2023	34							
2024	34							
Total	309	14	42	71	100	129	158	190
m^3/user	182	182	182	182	182	182	182	182
Annual Flow		2,549	7,647	12,928	18,208	23,489	28,769	34,595

Water Customer Forecast	2015	2016	2017	2018	2019	2020	2021
Existing - Metered	425	425	425	425	425	425	425
Existing - Non-Metered	2,822	2,822	2,822	2,822	2,822	2,822	2,822
New - Growth	14	42	71	100	129	158	190
Total	3,261	3,289	3,318	3,347	3,376	3,405	3,437

Water Billable Volume Forecast (m^3)	2015	2016	2017	2018	2019	2020	2021
Existing - Metered	298,446	298,446	298,446	298,446	298,446	298,446	298,446
Existing - Non-Metered	513,834	513,834	513,834	513,834	513,834	513,834	513,834
New	2,549	7,647	12,928	18,208	23,489	28,769	34,595
Total	814,829	819,927	825,207	830,488	835,768	841,049	846,875

Table 1-3
2015-2025 Wastewater System Forecast

Wastewater Users Forecast

Year	Total Users	2015	2016	2017	2018	2019	2020	2021
2015	27	14	27	27	27	27	27	27
2016	29		15	29	29	29	29	29
2017	29			15	29	29	29	29
2018	29				15	29	29	29
2019	29					15	29	29
2020	29						15	29
2021	35							18
2022	34							
2023	34							
2024	34							
Total	309	14	42	71	100	129	158	190
m^3/user	182	182	182	182	182	182	182	182
Annual Flow		2,549	7,647	12,928	18,208	23,489	28,769	34,595

Wastewater Customer Forecast	2015	2016	2017	2018	2019	2020	2021
Existing - Metered	408	408	408	408	408	408	408
Existing - Non-Metered	2,723	2,723	2,723	2,723	2,723	2,723	2,723
New - Growth	14	42	71	100	129	158	190
Total	3,145	3,173	3,202	3,231	3,260	3,289	3,321

Wastewater Flows Forecast (m^3)	2015	2016	2017	2018	2019	2020	2021
Existing - Metered	286,508	286,508	286,508	286,508	286,508	286,508	286,508
Existing - Non-Metered	495,808	495,808	495,808	495,808	495,808	495,808	495,808
New	2,549	7,647	12,928	18,208	23,489	28,769	34,595
Total	784,865	789,963	795,244	800,524	805,804	811,085	816,911

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

2. Capital Infrastructure Needs

2.1 Capital Forecast

Capital forecasts have been provided for the water and wastewater systems and are presented on Tables 2-1 and 2-2 (Note: the costs are in inflated dollars). The basis for these forecasts is the Township's Capital Forecasts and works identified as asset replacement needs based on the inventory data provided for the water & wastewater systems.

A summary of the capital works related to the water and wastewater services are provided below:

Table 2-1
2015-2021 Water Capital Forecast Summary (Inflated $)

Description	Total (2015 - 2021)	Years Undertaken
Capital Expenditures		
King St W (Main- Queen St W) eng & const	$134,000	2015, 2016
Eliza St. (Frederick St E-Bellefield Cr) eng. & const	$212,000	2015, 2016
2007 Pick Up Truck Replacement	$35,000	2015
Water System Scada upgrades	$182,000	2015
Francis St (Charles St W- George St) eng & construction	$241,000	2016, 2017
James St (Queen St W - North Water St) eng & const	$300,000	2016, 2017
Elgin St (Wellington St- King St W) eng & const	$136,000	2016, 2017
2008 Pick Up Truck Replacement	$36,000	2016
Cork St. (Waterloo- Princess St)	$121,000	2016
Charles St E (George St-Isabella St) eng & const	$151,000	2017, 2018
Fergus St (King St E- Wellington St E)eng & const	$151,000	2017, 2018
Williams St (Queen St- N. Water St) eng & const	$336,000	2018, 2019
Walton St (Clark St- Tucker St) eng & const	$134,000	2018, 2019
New Trunk Line to MF Water Tower	$424,000	2018
Water Meters	$1,380,000	2018
2010 Pick Up Truck Replacement	$37,000	2018
Isabella St (Frederick St- John Eliza) eng	$47,000	2019
John St. (Queen-Waterloo St) eng	$21,000	2019
Growth Related:		
MF Water Tower/Booster station - Standpipe/Southend	$2,165,000	2019
AV Frederick St.(Joint Project with County)	$537,000	2015
Miller/John/North Water St.	$487,000	2015
Wells St. (Domville St. to Eliza St.)	$746,000	2020
Sligo Road (Church St. to London Rd.)	$293,000	2020
London Road (Sligo Rd. to Wellington St.)	$348,000	2020
Durham St. (London Road Westerly)	$40,000	2020
Murphy Lands (Bristol St./Bentley St.)	$568,000	2016, 2021
Studies:		
Water and Wastewater Rate Study	$35,000	2015, 2020
Lifecycle:		
Water Facilities	$2,372,000	2019 - 2021
Arthur Water Distribution	$2,256,000	2019 - 2021
Mt Forest Water Distribution	$3,171,000	2019 - 2021
Total	**$17,096,000**	

Table 2-2
2015-2025 Wastewater Capital Forecast Summary (Inflated $)

Description	Total (2015 - 2021)	Years Undertaken
Capital Expenditures		
Miller/John/North Water St	$368,000	2015
King St W (Main- Queen St W) eng & const	$150,000	2015, 2016
Eliza St. (Frederick St E-Bellefield Cr) eng. & const	$239,000	2015, 2016
2007 Pick Up Truck Replacement	$5,000	2015
Francis St (Charles St W- George St) eng & construction	$270,000	2016, 2017
James St (Queen St W - North Water St) eng & const	$336,000	2016, 2017
Elgin St (Wellington St- King St W) eng & const	$152,000	2016, 2017
2008 Pick Up Truck Replacement	$5,000	2016
Cork St. (Waterloo- Princess St)	$35,000	2016
South Water St PS/Sanitary Main	$810,000	2017
Charles St E (George St-Isabella St) eng & const	$169,000	2017, 2018
Durham St E	$68,000	2017
Fergus St (King St E- Wellington St E)eng & const	$169,000	2017, 2018
Scada Upgrades at MFWWTP	$175,000	2017
Williams St (Queen St- N. Water St) eng & const	$376,000	2018, 2019
Walton St (Clark St- Tucker St) eng & const	$150,000	2018, 2019
2010 Pick Up Truck Replacement	$5,000	2018
Isabella St (Frederick St- John Eliza) eng	$53,000	2019
John St. (Queen-Waterloo St) eng	$24,000	2019
Growth Related:		
Wastewater Facilities:		
Re-Rating of Arthur WPCP Including Lagoon Expansion	$10,067,000	2016 - 2018
Arthur:		
AV Frederick St.(Joint Project with County)	$639,000	2015
Wells St. (McCauley to Domville)	$680,000	2021
Mount Forest:		
Sligo Road (Chruch St. to London Road)	$516,000	2020
London Road (Sligo Rd. to Wellington St.)	$764,000	2020
Durham St. (London Rd. Westerly)	$51,000	2020
Bentley St.	$746,000	2021
Bristol St	$720,000	2021
Studies:		
Water & Wastewater Rate Study	$21,000	2015, 2020
Lifecycle:		
Wastewater Facilities	$391,000	2019 - 2021
Total	**$18,154,000**	

3. Lifecycle Costing

3.1 Overview of Lifecycle Costing

3.1.1 Definition

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

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

3.1.2 Financing Costs

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

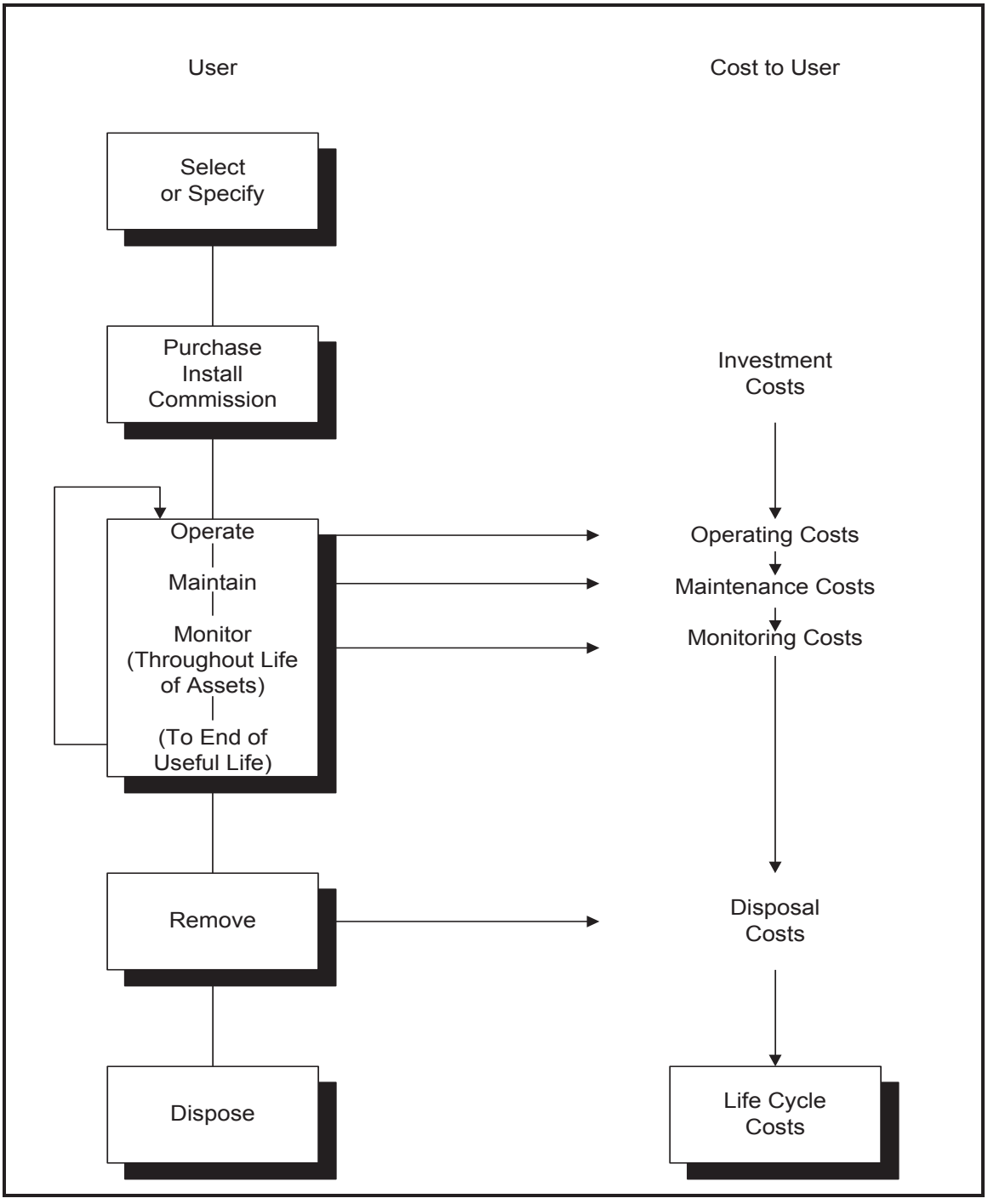
In a municipal context, services are provided to benefit tax/rate payers. Acquisition of assets is normally timed in relation to direct needs within the community. At times, economies of scale or technical efficiencies will lead to oversizing an asset to accommodate future growth within the Township.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

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

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

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

Figure 3-1
Lifecycle Costing



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

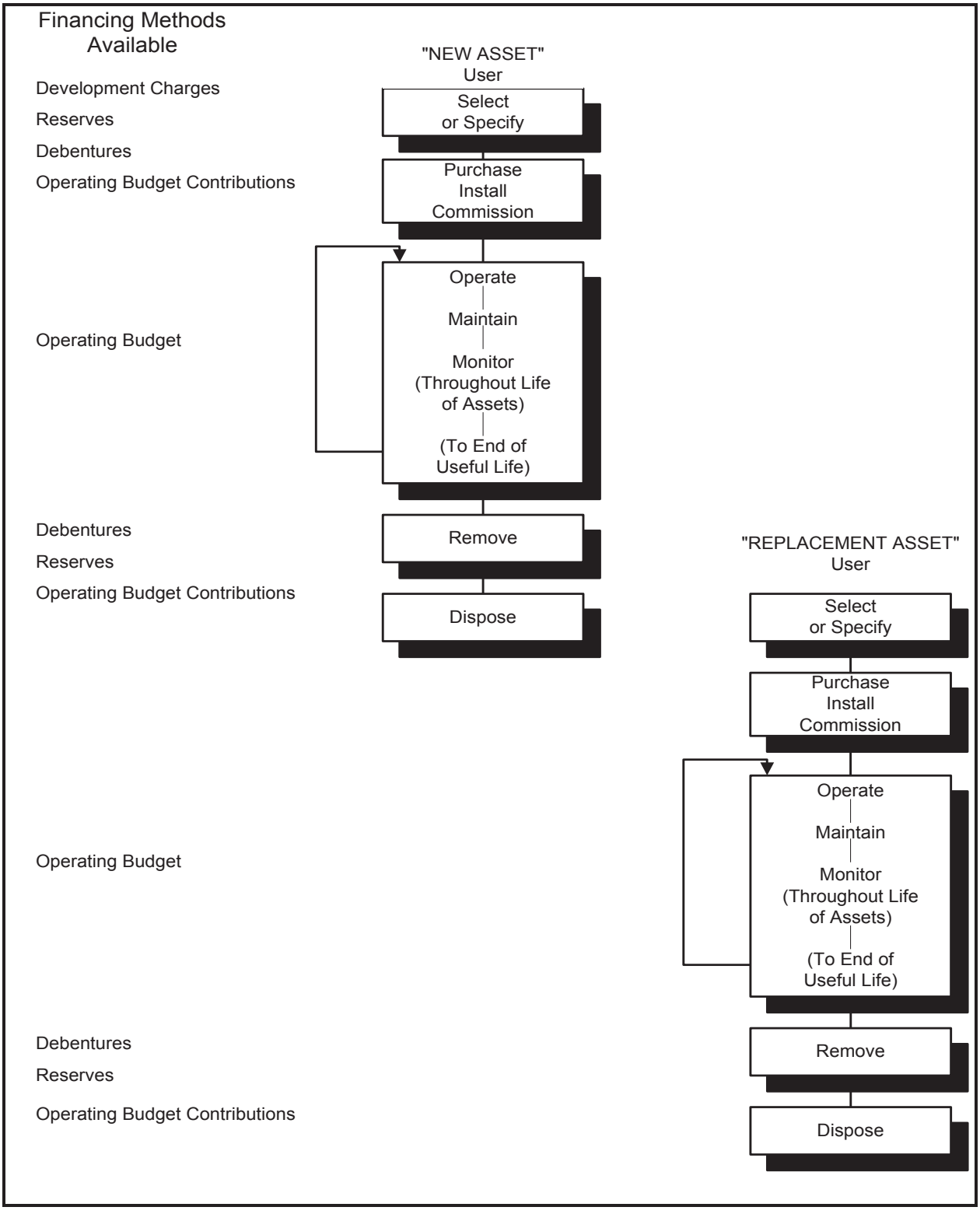
Figure 3-2 depicts the costs of an asset from its initial conception through to replacement and then continues to follow the associated costs through to the next replacement.

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

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

Charging for the cost of using up of an asset is the fundamental concept behind depreciation methods utilized by the private sector. This concept allows for expending the asset as it is used up in the production process. The tracking of these costs forms part of the product's selling price and hence end users are charged for the asset's depreciation. The same concept can be applied in a municipal setting to charge existing users for the asset's use and set those funds aside in a reserve to finance the cost of replacing the asset in the future.

Figure 3-2
Financing Lifecycle Costs



3.1.3 Costing Methods

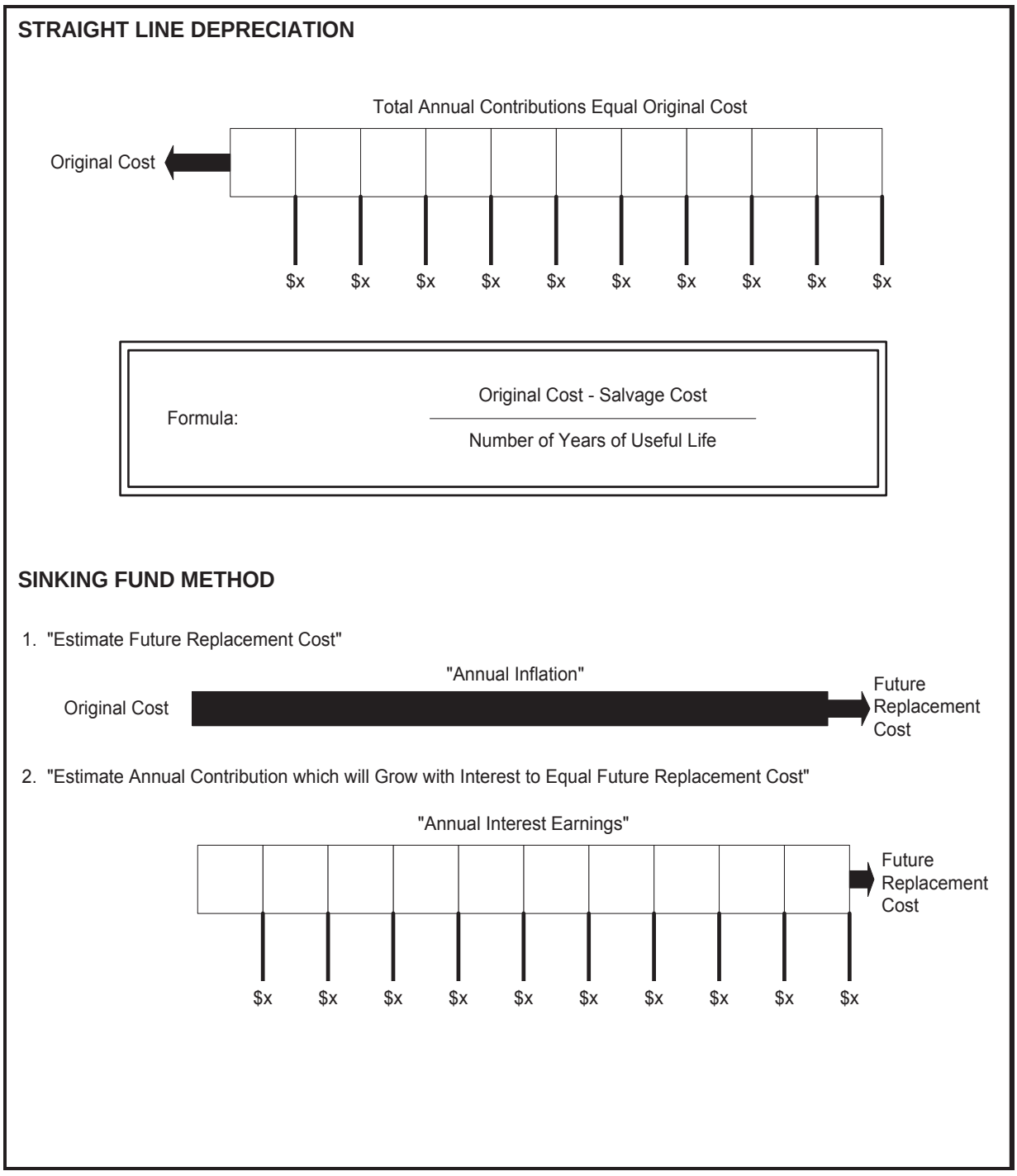
There are two fundamental methods of calculating the cost of the usage of an asset and for the provision of the revenue required when the time comes to retire and replace it. The first method is the Depreciation Method. This method recognizes the reduction in the value of the asset through wear and tear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

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

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

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

Figure 3-3



3.2 Impact on Budgets

Detailed water and wastewater systems inventory information was obtained from the Township. The age of the water system dates back to the early 1930's. The water system has been expanded throughout the years. The wastewater system dates back

to the late 1940s. The total value of existing water infrastructure is $67.32 million and the value of existing wastewater infrastructure is $62.92 million.

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

Figure 3-4
Township of Wellington North
Summary of Water and Wastewater Infrastructure

Area	Total Replacement Value	Amount to be funded in 6 year forecast - Based on Age	Amount Included six year forecast	Net Replacement for Future Lifecycle	Annual Lifecycle Replacement
Water					
Water Facilities	5,817,770	2,147,779			169,495
Arthur Water Distribution	22,011,635	2,823,043	13,694,131	53,627,912	1,183,705
Mt Forest Water Distribution	39,492,638	4,052,785			2,190,375
Total Water	**67,322,043**	**9,023,607**	**13,694,131**	**53,627,912**	**3,543,575**
Wastewater					
Wastewater Facilities	8,455,576	6,854,589			82,003
Arthur Lagoons	3,683,893	-	6,334,838	56,589,007	112,171
Arthur Sewer Inventory	21,522,936	2,154,801			1,802,907
Mt Forest Sewer Inventory	29,261,440	645,376			2,035,933
Total Wastewater	**62,923,845**	**9,654,767**	**6,334,838**	**56,589,007**	**4,033,015**
Total	**130,245,888**	**18,678,373**	**20,028,969**	**110,216,919**	**7,576,590**

Investment per customer is $20,734 for water and $20,097 for wastewater

It is noted that the inventory of the complete water and wastewater systems may be required to be assessed and reported on by a professional engineer as part of the documentation required under the Water Opportunities Act. The detailed specifics of the reporting will not be known until the Province has set these standards by regulation. With respect to lifecycle costing contained in the Appendices the following information was taken under consideration:

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

A summary of both water and wastewater assets are shown on Figures 3-5 and 3-6. These figures show when the assets are coming due and the cost of replacement in 2015 dollars.

Figure 3-5
Township of Wellington North
Summary of Water Infrastructure Replacement Years (2015$)

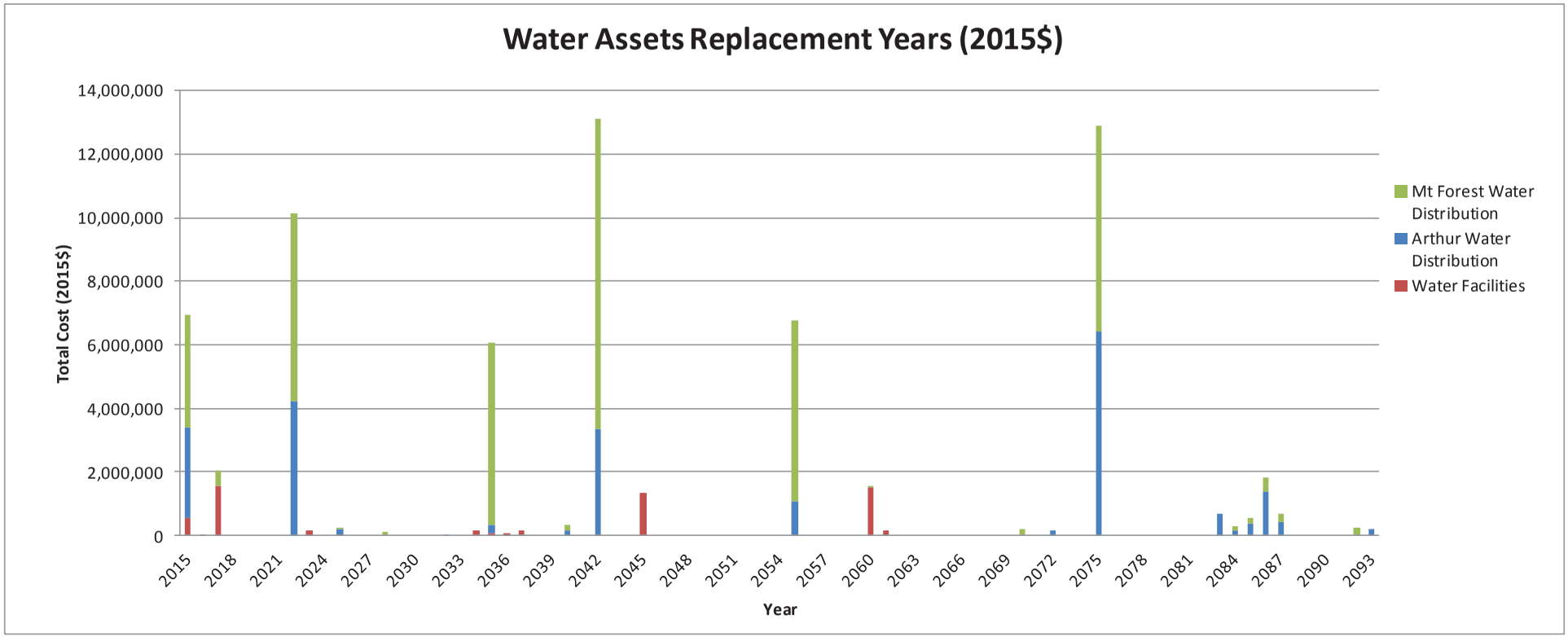
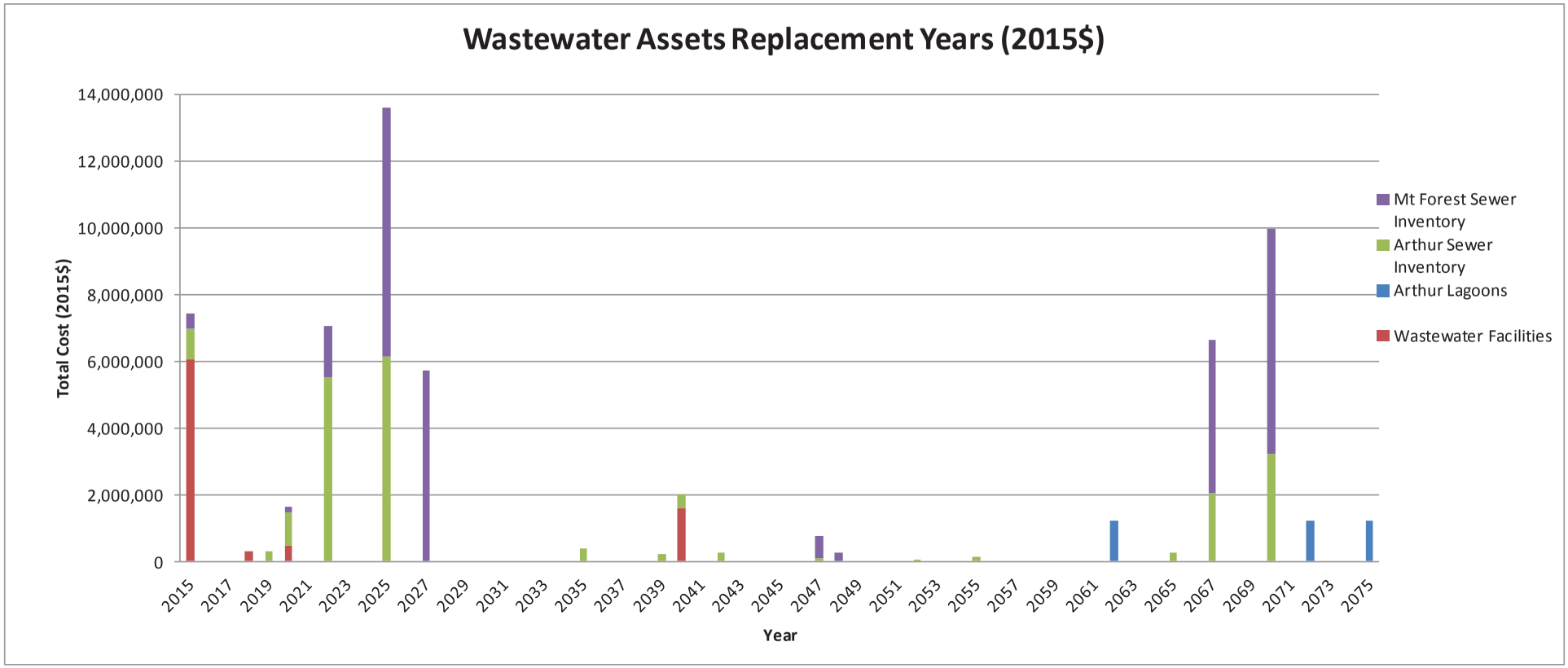


Figure 3-6
Township of Wellington North
Summary of Wastewater Infrastructure Replacement Years (2015$)



4. Capital Cost Financing Options

4.1 Summary of Capital Cost Financing Alternatives

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

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

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

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

Recovery Methods	Section Reference
• Development Charges Act, 1997	4.2

• Municipal Act
  o Fees and Charges
  o Sewer and Water Area Charges
  o Connection Fees
  o Local Improvements
	4.3

4.2 Development Charges Act, 1997

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

- Replace those sections of the 1989 D.C.A. which govern municipal development charges. (Education development charges are not to be significantly altered at this time);
- Limit services which can be financed from development charges, specifically excluding parkland acquisition, administration buildings, and cultural, entertainment, tourism, solid waste management and hospital facilities;
- Ensure that the level of service used in the calculation of capital costs will not exceed the average level of service over the previous decade. Level of service is to be measured from both a quality and quantity perspective;
- Provide that uncommitted excess capacity available in existing municipal facilities and benefits to existing residents are removed from the calculation of the charge;
- Ensure that the development charge revenues collected by municipalities are spent only on those capital costs identified in the calculation of the development charge;
- Require municipalities to contribute funds (e.g. taxes, user charges or other non-development charge revenues) to the financing of certain projects primarily funded from development charges. The municipal contribution is 10 percent for services such as recreation, parkland development, libraries, etc;
- Permit (but apparently not require) municipalities to grant developers credits for the direct provision of services identified in the development charge calculation and, when credits are granted, require the Municipality to reimburse the developer for the costs the Municipality would have incurred if the project had been financed from the development charge reserve fund;
- Set out provisions for front-end financing capital projects (limited to essential services) required to service new development; and
- Set out provisions for appeals and complaints, and transitional rules, including that municipalities will have up to 18 months from the date of proclamation of the new Act to establish new development charge by-laws, otherwise the old by-laws will expire.

4.3 Municipal Act

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

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

Restrictions are provided to ensure that the form of the charge is not akin to a poll tax. Any charges not paid under this authority may be added to the tax roll and collected in a like manner. The fees and charges imposed under this part are not appealable to the O.M.B.

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

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

While under the new Municipal Act no provisions are provided specific to the previous s.221, the intent to allow capital cost recovery through fees and charges is embraced within s.391. The new Municipal Act also maintains the ability of municipalities to impose capital charges for water and sewer services on landowners not receiving an immediate benefit from the works. Under s.391(2) of the Act, "a fee or charge imposed

under subsection (1) for capital costs related to sewage or water services or activities may be imposed on persons not receiving an immediate benefit from the services or activities but who will receive a benefit at some later point in time." Also, capital charges imposed under s.391 are not appealable to the O.M.B. on the grounds that the charges are "unfair or unjust".

4.3.3 s.222 of the previous Municipal Act permitted municipalities to pass a by-law requiring buildings to connect to the Municipality's sewer and water systems, charging the owner for the cost of constructing services from the mains to the property line. Under the new Municipal Act, this power still exists under Part II, General Municipal Powers (s.9 (3) b of the Municipal Act). Enforcement and penalties for this use of power are contained in s.427 (1) of the Municipal Act.

4.3.4 Under the previous Local Improvement Act:

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

4.4 Grant Funding Availability

Since the early 1980's, the level of Provincial and Federal assistance toward municipal infrastructure has declined significantly. By the mid 1990's, there were very limited funds available from senior levels of government. In mid-2000, initiatives from the Provincial and Federal level were announced; providing for a new program (O.S.T.A.R.) to assist small cities, Municipalities and rural areas in addressing infrastructure improvements. In November 2004, another program (C.O.M.R.I.F.) was introduced which also provided combined assistance from the senior governments until early 2007.

Subsequently Federal and Provincial Funding have been made available under the Build Canada Fund and Stimulus Fund Programs. Under the specific requirements of these programs, the projects needed to be "shovel ready" and were allocated on a case by case basis.

In August 2012, the province of Ontario initiated the Municipal Infrastructure Investment Initiative (M.I.I.I.). In supporting the efforts of communities to restore and revitalize their public infrastructure, this initiative provides one-time provincial funding to improve asset management planning in small municipalities and local service boards. In addition, funding will be made available for municipal infrastructure projects under this initiative. Any municipality or local service board seeking capital funding in the future must demonstrate how its proposed project fits within a detailed asset management plan. To assist in defining the components of an asset management plan, the Province produced a document entitled Building Together: Guide for Municipal Asset Management Plans. This guide documents the components, information and analysis that are required to be included in a municipality's asset management plan under this initiative.

Most recently, infrastructure funding programs have been announced by both the Federal and Ontario governments. The Ontario Community Infrastructure Fund (O.C.I.F.) will provide $100 million per year for repair or revitalization of infrastructure. 50% of this will be provided in a stable predictable formula-based allocation whereas the residual is based on an application basis. There is also the Federal Governments Small Communities Fund (S.C.F.) to which Ontario and Canada will each contribute $272 million to support projects in municipalities of less than 100,000 people. Both programs provide support to manage infrastructure programs.

4.5 Existing Reserves/Reserve Funds

The Township has established reserves and reserve funds for water and wastewater costs. The following table summarizes the water and wastewater reserves utilized in this analysis and their respective balances at December 31, 2014:

Reserve	Dec. 31, 2014
Water	
Capital Reserve	2,242,148
Development Charges Reserve Fund	329,415
Lifecycle Reserve Fund	513,018
Wastewater	
Capital Reserve	5,440,638
Development Charges Reserve Fund	921,653
Lifecycle Reserve Fund	467,544

4.6 Debenture Financing

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

The Ministry of Municipal Affairs regulates the level of debt incurred by Ontario municipalities, through its powers established under the Municipal Act. Ontario Regulations 403/02 provides the current rules respecting municipal debt and financial obligations. Through the rules established under these regulations, a Municipality's debt capacity is capped at a level where no more than 25% of the Municipality's own purpose revenue may be allotted for servicing the debt (i.e. debt charges). The Township of Wellington North's 2015 calculation on Debt Capacity is shown on Schedule 81 of the Township's 2014 Financial Information Return (F.I.R.). This calculates to the Township's estimated annual repayment limit of approximately $2.14 million. Based upon 15 year financing at an assumed rate of 3.5%, the available debt for the Township is approximately $24.6 million.

4.7 Infrastructure Renewal Bonds

Infrastructure Ontario (I.O.) is an arms-length crown corporation, which has been set up as a tool to offer low-cost and longer-term financing to assist municipalities in renewing their infrastructure (this corporation has merged the former O.S.I.F.A. into its operations) I.O. combines the infrastructure renewal needs of municipalities into an infrastructure investment "pool". I.O. will raise investment capital to finance loans to the public sector by selling a new investment product called Infrastructure Renewal Bonds to individual and institutional investors.

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

The first round of the former O.S.I.F.A.'s 2004-05 infrastructure renewal program was focused on municipal priorities of clean water infrastructure, sewage treatment facilities, municipal roads and bridges, public transit and waste management infrastructure. The focus of the program was expanded in 2005/2006 somewhat to include:

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

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

It is noted that the interest rates will vary from time to time. The following interest rates were available to municipalities for the following term, based on a serial repayment schedule as of December 4, 2015:

Indicative Lending Rates as of December 4, 2015	
Term	**Serial**
5 Year	1.80%
10 Year	2.48%
15 Year	2.95%
20 Year	3.24%
25 Year	3.42%
30 Year	3.52%

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

The analysis provided herein assumes that the Township will borrow approximately $5.54 million for water services and $1.97 million for wastewater services over the forecast, for a 15 year term at 3.5% (utilized a higher interest rate to be conservative).

4.8 Recommended Capital Financing Approach

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

Description	Total Water (2015 - 2021)	Total Wastewater (2015 - 2021)
Capital Financing		
Development Charges Reserve Fund*	$ 856,733	$ 9,556,409
Non-Growth Related Debenture Requirements	$ 3,991,450	$ -
Growth Related Debenture Requirements	$ 1,544,550	$ 1,968,855
Operating Contributions	$ -	$ -
Lifecycle Reserve Fund	$ 2,200,000	$ 1,672,250
Water/Wastewater Reserve	$ 8,145,035	$ 4,020,018
Total Capital Financing	**$ 17,096,000**	**$ 18,154,000**

*Wastew ater DCs are supplemented w ith an internal loan from w astew ater reserves

Tables 4-1 and 4-2 provide for the full capital expenditure and funding program by year for water and wastewater respectively.

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

Description	Total	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Capital Expenditures								
King St W (Main- Queen St W) eng & const	134,000	17,000	117,000	-	-	-	-	-
Eliza St. (Frederick St E-Bellefield Cr) eng. & const	212,000	27,000	185,000	-	-	-	-	-
2007 Pick Up Truck Replacement	35,000	35,000	-	-	-	-	-	-
Water System Scada upgrades	182,000	182,000	-	-	-	-	-	-
Francis St (Charles St W- George St) eng & construction	241,000	-	30,000	211,000	-	-	-	-
James St (Queen St W - North Water St) eng & const	300,000	-	38,000	262,000	-	-	-	-
Elgin St (Wellington St- King St W) eng & const	136,000	-	17,000	119,000	-	-	-	-
2008 Pick Up Truck Replacement	36,000	-	36,000	-	-	-	-	-
Cork St. (Waterloo- Princess St)	121,000	-	121,000	-	-	-	-	-
Charles St E (George St-Isabella St) eng & const	151,000	-	-	19,000	132,000	-	-	-
Fergus St (King St E- Wellington St E)eng & const	151,000	-	-	19,000	132,000	-	-	-
Williams St (Queen St- N. Water St) eng & const	336,000	-	-	-	42,000	294,000	-	-
Walton St (Clark St- Tucker St) eng & const	134,000	-	-	-	17,000	117,000	-	-
New Trunk Line to MF Water Tower	424,000	-	-	-	424,000	-	-	-
Water Meters	1,380,000	-	-	-	1,380,000	-	-	-
2010 Pick Up Truck Replacement	37,000	-	-	-	37,000	-	-	-
Isabella St (Frederick St- John Eliza) eng	47,000	-	-	-	-	47,000	-	-
John St. (Queen-Waterloo St) eng	21,000	-	-	-	-	21,000	-	-
	-	-	-	-	-	-	-	-
Growth Related:	-	-	-	-	-	-	-	-
MF Water Tower/Booster station - Standpipe/Southend	2,165,000	-	-	-	-	2,165,000	-	-
AV Frederick St.(Joint Project with County)	537,000	537,000	-	-	-	-	-	-
Miller/John/North Water St.	487,000	487,000	-	-	-	-	-	-
Wells St. (Domville St. to Eliza St.)	746,000	-	-	-	-	-	746,000	-
Sligo Road (Church St. to London Rd.)	293,000	-	-	-	-	-	293,000	-
London Road (Sligo Rd. to Wellington St.)	348,000	-	-	-	-	-	348,000	-
Durham St. (London Road Westerly)	40,000	-	-	-	-	-	40,000	-
Murphy Lands (Bristol St./Bentley St.)	568,000	-	270,000	-	-	-	-	298,000
	-	-	-	-	-	-	-	-
Studies:	-	-	-	-	-	-	-	-
Water and Wastewater Rate Study	35,000	17,000	-	-	-	-	18,000	-
	-	-	-	-	-	-	-	-
Lifecycle:	-	-	-	-	-	-	-	-
Water Facilities	2,372,000	-	-	-	-	775,000	791,000	806,000
Arthur Water Distribution	2,256,000	-	-	-	-	737,000	752,000	767,000
Mt Forest Water Distribution	3,171,000	-	-	-	-	1,036,000	1,057,000	1,078,000
Total Capital Expenditures	17,096,000	1,302,000	814,000	630,000	2,164,000	5,192,000	4,045,000	2,949,000
Capital Financing								
Provincial/Federal Grants	-							
Unused Capital	358,232	358,232						
Development Charges Reserve Fund	856,733	163,733	243,000	-	-	400,000	50,000	-
Non-Growth Related Debenture Requirements	3,991,450	-	-	-	-	477,550	1,983,100	1,530,800
Growth Related Debenture Requirements	1,544,550	-	-	-	-	314,450	961,900	268,200
Operating Contributions	-	-	-	-	-	-	-	-
Lifecycle Reserve Fund	2,200,000	-	-	-	-	1,900,000	150,000	150,000
Water Reserve	8,145,035	780,035	571,000	630,000	2,164,000	2,100,000	900,000	1,000,000
Total Capital Financing	17,096,000	1,302,000	814,000	630,000	2,164,000	5,192,000	4,045,000	2,949,000

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

Description	Total	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Capital Expenditures								
Miller/John/North Water St	368,000	368,000	-	-	-	-	-	-
King St W (Main- Queen St W) eng & const	150,000	19,000	131,000	-	-	-	-	-
Eliza St. (Frederick St E-Bellefield Cr) eng. & const	239,000	30,000	209,000	-	-	-	-	-
2007 Pick Up Truck Replacement	5,000	5,000	-	-	-	-	-	-
Francis St (Charles St W- George St) eng & construction	270,000	-	34,000	236,000	-	-	-	-
James St (Queen St W - North Water St) eng & const	336,000	-	42,000	294,000	-	-	-	-
Elgin St (Wellington St- King St W) eng & const	152,000	-	19,000	133,000	-	-	-	-
2008 Pick Up Truck Replacement	5,000	-	5,000	-	-	-	-	-
Cork St. (Waterloo- Princess St)	35,000	-	35,000	-	-	-	-	-
South Water St PS/Sanitary Main	810,000	-	-	810,000	-	-	-	-
Charles St E (George St-Isabella St) eng & const	169,000	-	-	21,000	148,000	-	-	-
Durham St E	68,000	-	-	68,000	-	-	-	-
Fergus St (King St E- Wellington St E)eng & const	169,000	-	-	21,000	148,000	-	-	-
Scada Upgrades at MFWWTP	175,000	-	-	175,000	-	-	-	-
Williams St (Queen St- N. Water St) eng & const	376,000	-	-	-	47,000	329,000	-	-
Walton St (Clark St- Tucker St) eng & const	150,000	-	-	-	19,000	131,000	-	-
2010 Pick Up Truck Replacement	5,000	-	-	-	5,000	-	-	-
Isabella St (Frederick St- John Eliza) eng	53,000	-	-	-	-	53,000	-	-
John St. (Queen-Waterloo St) eng	24,000	-	-	-	-	24,000	-	-
	-	-	-	-	-	-	-	-
Growth Related:	-	-	-	-	-	-	-	-
Wastewater Facilities	-	-	-	-	-	-	-	-
Re-Rating of Arthur WPCP Including Lagoon Expansion	10,067,000	-	3,290,000	3,355,000	3,422,000	-	-	-
	-	-	-	-	-	-	-	-
Arthur:	-	-	-	-	-	-	-	-
AV Frederick St.(Joint Project with County)	639,000	639,000	-	-	-	-	-	-
Wells St. (McCauley to Domville)	680,000	-	-	-	-	-	-	680,000
	-	-	-	-	-	-	-	-
Mount Forest:	-	-	-	-	-	-	-	-
Sligo Road (Chruch St. to London Road)	516,000	-	-	-	-	-	516,000	-
London Road (Sligo Rd. to Wellington St.)	764,000	-	-	-	-	-	764,000	-
Durham St. (London Rd. Westerly)	51,000	-	-	-	-	-	51,000	-
Bentley St.	746,000	-	-	-	-	-	-	746,000
Bristol St	720,000	-	-	-	-	-	-	720,000
	-	-	-	-	-	-	-	-
Studies:	-	-	-	-	-	-	-	-
Water & Wastewater Rate Study	21,000	10,000	-	-	-	-	11,000	-
	-	-	-	-	-	-	-	-
Lifecycle:	-	-	-	-	-	-	-	-
Wastewater Facilities	391,000	-	-	-	-	128,000	130,000	133,000
Arthur Lagoons	-	-	-	-	-	-	-	-
Arthur Sewer Inventory	-	-	-	-	-	-	-	-
Mt Forest Sewer Inventory	-	-	-	-	-	-	-	-
Total Capital Expenditures	18,154,000	1,071,000	3,765,000	5,113,000	3,789,000	665,000	1,472,000	2,279,000
Capital Financing								
Provincial/Federal Grants	319,434	319,434	-	-	-	-	-	-
Unused Capital	617,034	617,034	-	-	-	-	-	-
Development Charges Reserve Fund	9,556,409	70,014	2,796,500	2,851,750	1,919,444	-	820,300	1,098,401
Non-Growth Related Debenture Requirements	-	-	-	-	-	-	-	-
Growth Related Debenture Requirements	1,968,855	-	-	-	989,256	-	-	979,599
Operating Contributions	-	-	-	-	-	-	-	-
Lifecycle Reserve Fund	1,672,250	-	-	561,250	720,000	128,000	130,000	133,000
Wastewater Reserve	4,020,018	64,518	968,500	1,700,000	160,300	537,000	521,700	68,000
Total Capital Financing	18,154,000	1,071,000	3,765,000	5,113,000	3,789,000	665,000	1,472,000	2,279,000

5. Overview of Expenditures and Revenues

5.1 Water Operating Expenditures

In this report, the forecasted water budget figures (2015-2021) are based on the 2015 Operating Budgets. The costs for each component of the operating budget have been reviewed with staff to establish forecast inflationary adjustments. Most of the expenditures have been assumed to increase at a rate of 2.0% annually. Operating expenditures which involve utilities, fuels, chemicals and hydro have been inflated by 5.0% annually. Note that annual contributions have been provided to the capital reserves in order to minimize the need for additional debt to finance the capital program. Also included are any debenture expenditures and contributions to reserve funds.

5.2 Water Operating Revenues

The Township has miscellaneous revenue sources to help contribute towards operating expenditures. These miscellaneous revenues, including service connection charges and meter and backflow fees have been included and held constant in each year of the forecast period. Table 5-1 provides for the operating budget (expenditures and revenues) for the water system.

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

Description	Forecast						
	2015	2016	2017	2018	2019	2020	2021
Expenditures							
Salaries & Benefits	-	-	-	-	-	-	-
WW-Salaries - Supt.	22,400	22,800	23,300	23,800	24,300	24,800	25,300
WW-ADM Salaries/Wages	153,000	156,100	159,200	162,400	165,600	168,900	172,300
WW-Training Salaries/Wages	13,300	13,600	13,900	14,200	14,500	14,800	15,100
WW-Locates Salaries/Wages	81,600	83,200	84,900	86,600	88,300	90,100	91,900
WW-Well Operation Salaries/Wages	122,400	124,800	127,300	129,800	132,400	135,000	137,700
WW-Main/Service/Mtce Salaries/Wages	14,300	14,600	14,900	15,200	15,500	15,800	16,100
WW-Hydrant Mtce Salaries/Wages	10,200	10,400	10,600	10,800	11,000	11,200	11,400
WW-LEAD TESTING	-	-	-	-	-	-	-
WW-Benefits	109,100	111,300	113,500	115,800	118,100	120,500	122,900
	-	-	-	-	-	-	-
Expenditures	-	-	-	-	-	-	-
WW-Salaries (Works Employees)	13,300	13,600	13,900	14,200	14,500	14,800	15,100
WW-Materials & Supplies	126,000	132,300	138,900	145,800	153,100	160,800	168,800
WW-Meters & Hardware	3,000	3,100	3,200	3,300	3,400	3,500	3,600
WW-Testing/Sampling	25,500	26,000	26,500	27,000	27,500	28,100	28,700
WW - Water Tower Inspection & Mtce	32,600	33,300	34,000	34,700	35,400	36,100	36,800
WW-Backflow Preventer Testing	25,000	25,500	26,000	26,500	27,000	27,500	28,100
WW-Utilities	-	-	-	-	-	-	-
WW - Meter/Backflow preventer maintenance	9,200	9,400	9,600	9,800	10,000	10,200	10,400
WW-Water Testing (Lead)	500	500	500	500	500	500	500
WW - Leak Detection	3,200	3,300	3,400	3,500	3,600	3,700	3,800
WW - Property Expense	12,200	12,400	12,600	12,900	13,200	13,500	13,800
WW - Well Mainenance	51,000	52,000	53,000	54,100	55,200	56,300	57,400
WW - Advertising	500	500	500	500	500	500	500
WW - Audit Fee	2,000	2,000	2,000	2,000	2,000	2,000	2,000
WW-Insurance	13,400	13,700	14,000	14,300	14,600	14,900	15,200
WW - Insurance Claims Deductible	2,400	2,400	2,400	2,400	2,400	2,400	2,400
WW-Consulting/Engineering	35,700	36,400	37,100	37,800	38,600	39,400	40,200
WW - Drinking Water Quality Management Standards	5,100	5,200	5,300	5,400	5,500	5,600	5,700
WW - Memberships	1,000	1,000	1,000	1,000	1,000	1,000	1,000
WW-Conferences, training & travel	16,000	16,300	16,600	16,900	17,200	17,500	17,900
WW-Safety Clothing Allowance	1,200	1,200	1,200	1,200	1,200	1,200	1,200
WW-Telephone	9,100	9,300	9,500	9,700	9,900	10,100	10,300
WW-Services & Rents(HEC Billings)	54,100	55,200	56,300	57,400	58,500	59,700	60,900
WW - Bad Debts	1,600	1,600	1,600	1,600	1,600	1,600	1,600
WW - NON-TCA Expenses	-	-	-	-	-	-	-
WW - Amortization Expense	-	-	-	-	-	-	-
WW-Truck Mtce/Mileage	27,000	27,500	28,100	28,700	29,300	29,900	30,500
MF WW-Well #3 (Mtce & hydro)	13,100	13,800	14,500	15,200	16,000	16,800	17,600
MF WW-Well #4 (Mtce & hydro)	7,700	8,100	8,500	8,900	9,300	9,800	10,300
MF WW-Well #5 (Mtce & hydro)	17,700	18,600	19,500	20,500	21,500	22,600	23,700
MF WW-Well #6 (Mtce & hydro)	8,100	8,500	8,900	9,300	9,800	10,300	10,800
AV WW-Well #1(Mtce & hydro)	2,600	2,700	2,800	2,900	3,000	3,200	3,400
AV WW-Well #5 (Mtce & hydro)	3,500	3,700	3,900	4,100	4,300	4,500	4,700
AV WW-Well #7 & 7B(Mtce & hydro)	10,900	11,400	12,000	12,600	13,200	13,900	14,600
WW - AV WW - Well #8A & 8B Mtce/Utilities	20,500	20,900	21,300	21,700	22,100	22,500	23,000
		-	-	-	-	-	-
Sub Total Operating	1,081,000	1,108,200	1,136,200	1,165,000	1,194,600	1,225,500	1,257,200

Table 5-1 (Cont'd)
Operating Budget Forecast - Water (inflated $)

Description	Forecast						
	2015	2016	2017	2018	2019	2020	2021
Capital-Related							
Existing Debt (Principal) - Growth Related							
Existing Debt (Interest) - Growth Related							
New Growth Related Debt (Principal)	-	-	-	-	-	16,296	66,717
New Growth Related Debt (Interest)	-	-	-	-	-	11,006	44,102
Existing Debt (Principal) - Non-Growth Related	14,976	15,392	16,120	16,848	17,888	6,580	6,811
Existing Debt (Interest) - Non-Growth Related	9,228	8,628	7,962	7,232	6,433	4,444	4,214
New Non-Growth Related Debt (Principal)	-	-	-	-	-	24,749	128,390
New Non-Growth Related Debt (Interest)	-	-	-	-	-	16,714	85,257
Transfer to Capital	-	-	-	-	-	-	-
Transfer to Capital Reserve	840,600	829,883	816,758	847,874	879,471	1,017,400	879,891
Sub Total Capital Related	864,804	853,904	840,840	871,955	903,792	1,097,190	1,215,381
Total Expenditures	1,945,804	1,962,104	1,977,040	2,036,955	2,098,392	2,322,690	2,472,581
Revenues							
Base Charge	-	-	-	-	-	-	-
WW-Interfunctional Transfer	15,800	15,800	15,800	15,800	15,800	15,800	15,800
WW - Meter & Backflow Fee	50,000	50,000	50,000	50,000	50,000	50,000	50,000
WW - Misc Revenue	-	-	-	-	-	-	-
WW-Service Connection Fees	9,500	9,500	9,500	9,500	9,500	9,500	9,500
WW - Connection Rate(Admin Fee)	-	-	-	-	-	-	-
WW-Meters & Hardware	500	500	500	500	500	500	500
Contributions from Development Charges Reserve Fund	-	-	-	-	-	27,302	110,819
Contributions from Reserves / Reserve Funds	-	-	-	-	-	-	-
Total Operating Revenue	75,800	75,800	75,800	75,800	75,800	103,102	186,619
Water Billing Recovery - Operating	1,870,004	1,886,304	1,901,240	1,961,155	2,022,592	2,219,588	2,285,962
Lifecycle Reserve Contribution ($)	284,000	284,000	284,000	284,000	284,000	150,000	150,000
Water Billing Recovery - Total	**2,154,004**	**2,170,304**	**2,185,240**	**2,245,155**	**2,306,592**	**2,369,588**	**2,435,962**

5.3 Wastewater Operating Expenditures

The wastewater operating expenditures have been adjusted over the forecast period by an annual inflationary factor of 2%. Operating expenditures which involve utilities, fuels, chemicals and hydro have been inflated by 5% annually. Also included are contributions to the capital reserve.

5.4 Wastewater Operating Revenues

The operating revenue for the wastewater program comes mainly from flat rates and volumetric revenue from customers. A small amount of revenue is also generated from service connection charges and other miscellaneous revenue which have been held constant over the forecast. Table 5-2 outlines the operating budget (expenditures and revenues) for the Wellington North wastewater system.

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

Description	Forecast						
	2015	2016	2017	2018	2019	2020	2021
Expenditures							
Operating Costs							
SS-Salaries Corey, Ed, Supt.	41,400	42,200	43,000	43,900	44,800	45,700	46,600
SS-WNP Labour/Mtce	200	200	200	200	200	200	200
SS-Benefits	10,300	10,500	10,700	10,900	11,100	11,300	11,500
SS-Materials/Supplies/Rent	36,800	38,600	40,500	42,500	44,600	46,800	49,100
SS-Testing/Sampling	5,100	5,200	5,300	5,400	5,500	5,600	5,700
SS - Sewer Inspections (Camera)	5,100	5,200	5,300	5,400	5,500	5,600	5,700
SS-Pumping Stn -Utilities & Mtce - A & MF	55,600	56,700	57,800	59,000	60,200	61,400	62,600
SS- Property Expense	37,700	38,500	39,300	40,100	40,900	41,700	42,500
SS-Arthur Disposal Mtce	219,300	223,700	228,200	232,800	237,500	242,300	247,100
SS-MF New Disposal/Storage/Utilities/Mtce	193,700	197,600	201,600	205,600	209,700	213,900	218,200
SS - Audit Fee	1,000	1,000	1,000	1,000	1,000	1,000	1,000
SS-Insurance	13,800	14,100	14,400	14,700	15,000	15,300	15,600
SS-Consultants Fees	12,200	12,400	12,600	12,900	13,200	13,500	13,800
SS - Environmental Assessment	102,000	104,000	106,100	108,200	110,400	112,600	114,900
SS - Memberships	200	200	200	200	200	200	200
SS-Conferances, training & travel	7,700	7,900	8,100	8,300	8,500	8,700	8,900
SS-Safety Clothing Allowance	1,000	1,000	1,000	1,000	1,000	1,000	1,000
SS-Telephone	9,200	9,400	9,600	9,800	10,000	10,200	10,400
SS-Services (WNP Billing only)	42,200	43,000	43,900	44,800	45,700	46,600	47,500
SS - Bad Debts	-	-	-	-	-	-	-
SS - NON-TCA Expenses	-	-	-	-	-	-	-
SS - Amortization Expense	-	-	-	-	-	-	-
SS-Truck Mtce/Mileage	9,000	9,200	9,400	9,600	9,800	10,000	10,200
SS-Salaries (Works Employees)	2,300	2,300	2,300	2,300	2,300	2,300	2,300
SS-Arthur MOE Operating (OCWA)	204,000	208,100	212,300	216,500	220,800	225,200	229,700
SS-MF MOE Operating (OCWA)	219,500	223,900	228,400	233,000	237,700	242,500	247,400
SS-Interfunctional Transfer	11,700	11,700	11,700	11,700	11,700	11,700	11,700
Sub Total Operating	1,241,000	1,266,600	1,292,900	1,319,800	1,347,300	1,375,300	1,403,800

Table 5-2 (con't)
Operating Budget Forecast - Wastewater (inflated $)

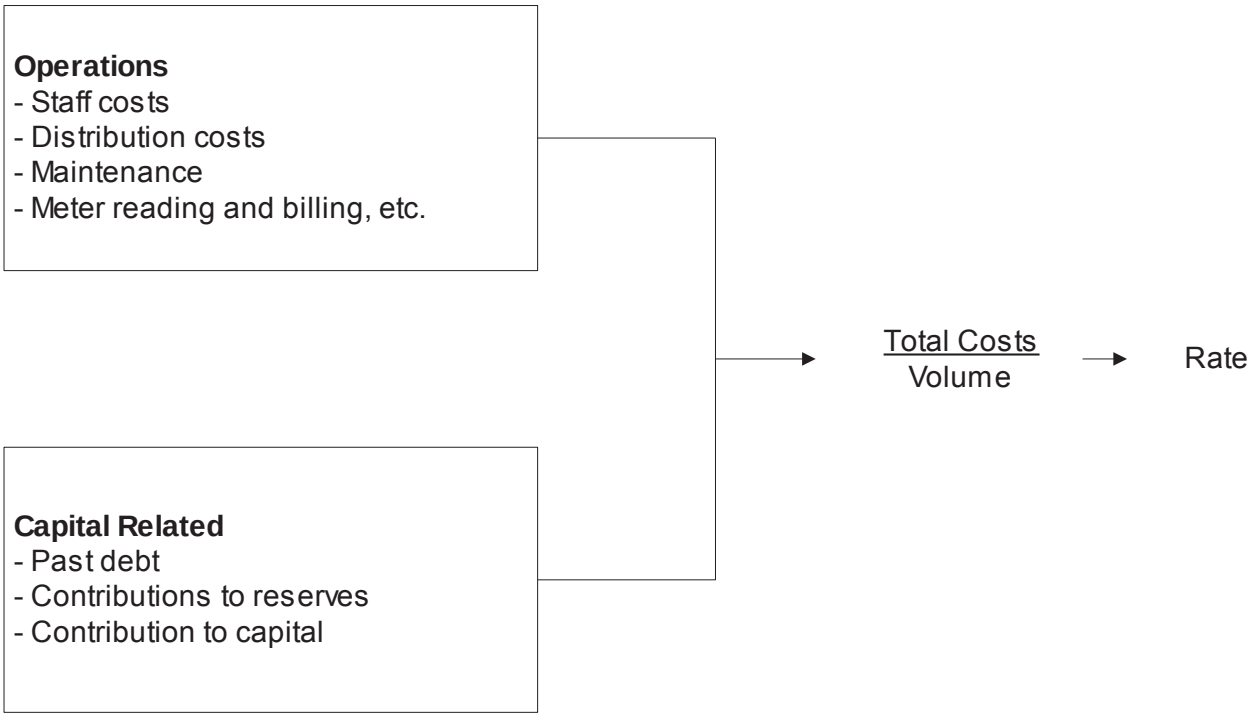
Description	Forecast						
	2015	2016	2017	2018	2019	2020	2021
Capital-Related							
Existing Debt (Principal) - Growth Related							
Existing Debt (Interest) - Growth Related							
New Growth Related Debt (Principal)	-	-	-	-	51,268	53,063	54,920
New Growth Related Debt (Interest)	-	-	-	-	34,624	32,830	30,972
Existing Debt (Principal) - Non-Growth Related	248,577	260,083	274,236	288,932	306,337		
Existing Debt (Interest) - Non-Growth Related	173,124	160,359	146,630	131,922	116,161		
New Non-Growth Related Debt (Principal)	-	-	-	-	-	-	-
New Non-Growth Related Debt (Interest)	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-
Transfer to Capital Reserve	671,119	665,649	658,472	703,337	747,780	1,217,744	1,268,823
Sub Total Capital Related	1,092,820	1,086,092	1,079,338	1,124,191	1,256,171	1,303,636	1,354,715
Total Expenditures	2,333,820	2,352,692	2,372,238	2,443,991	2,603,471	2,678,936	2,758,515
Revenues							
Base Charge	-	-	-	-	-	-	-
Other Revenue	-	-	-	-	-	-	-
SS - Misc Revenue	2,000	2,000	2,000	2,000	2,000	2,000	2,000
SS-Service Connection Fees	9,000	9,000	9,000	9,000	9,000	9,000	9,000
SS - Connection Rate (Admin Fee)	-	-	-	-	-	-	-
Contributions from Development Charges Reserve Fund	-	-	-	-	85,892	85,892	85,892
Contributions from Reserves / Reserve Funds	-	-	-	-	-	-	-
Total Operating Revenue	11,000	11,000	11,000	11,000	96,892	96,892	96,892
Wastewater Billing Recovery - Operating	2,322,820	2,341,692	2,361,238	2,432,991	2,506,578	2,582,044	2,661,623
Lifecycle Reserve Contribution ($)	229,593	229,593	229,593	229,593	229,593	229,593	229,593
Wastewater Billing Recovery - Total	**2,552,413**	**2,571,285**	**2,590,831**	**2,662,584**	**2,736,171**	**2,811,637**	**2,891,216**

6. Pricing Structures

6.1 Introduction

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

"Annual Costs"



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

Operations

- Inflation;
- Increased maintenance as system ages; and
- Changes to provincial legislation.

Capital Related

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

6.2 Alternative Pricing Structures

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

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

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

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

Property Assessment: This method incorporates the total costs of providing water into the general requisition or the assessment base of the Municipality. This form of collection is a "wealth tax", as payment increases directly with the value of property owned and bears no necessary relationship to actual consumption. This form is easy to administer as the costs to be recovered are incorporated in the calculation for all general services, normally collected through property taxes.

Flat Rate: This rate is a constant charge applicable to all customers served. The charge is calculated by dividing the total number of user households and other entities (e.g. businesses) into the costs to be recovered. This method does not recognize differences in actual consumption but provides for a uniform spreading of costs across all users. Some municipalities define users into different classes of similar consumption

patterns, that is, a commercial user, residential user and industrial user, and charge a flat rate by class. Each user is then billed on a periodic basis. No meters are required to facilitate this method, but an accurate estimate of the number of users is required. This method ensures set revenue for the collection period but is not sensitive to consumption, hence may cause a shortfall or surplus of revenues collected.

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

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

Increasing or Inverted Block Rates: The increasing block rate works essentially the same way as the declining block rate, except that the price of water in successive blocks increases rather than declines. Under this method the consumer's bill rises faster with higher volumes used. This rate structure also requires the use of meters to record the volume consumed by each user. This method requires, as with the declining block structure, the collection and analysis of consumption patterns by user classification to establish rates at a level which does not over or under collect from rate payers.

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

6.3 Assessment of Alternative Pricing Structures

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

Cost Recovery

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

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

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

Administration

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

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

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

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

The benefit derived from the installation of meters is that information on consumption patterns becomes available. This information provides benefit to administration in calculating rates which will ensure revenue recovery. Additionally, when planning what services are to be constructed in future years, the municipality or utility has documented consumption patterns distinctive to its own situation, which can be used to project sizing of growth-related works.

Equity

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

Conservation

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

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

The Declining Block Rate provides a decreasing incentive towards conservation. By creating awareness of volumes consumed, the consumer can reduce his total costs by restricting consumption; however the incentive lessens as more water is consumed, because the marginal cost per unit declines as the consumer enters the next block pricing range. Similarly, those whose consumption level is at the top end of a block have reduced incentive to reduce consumption.

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

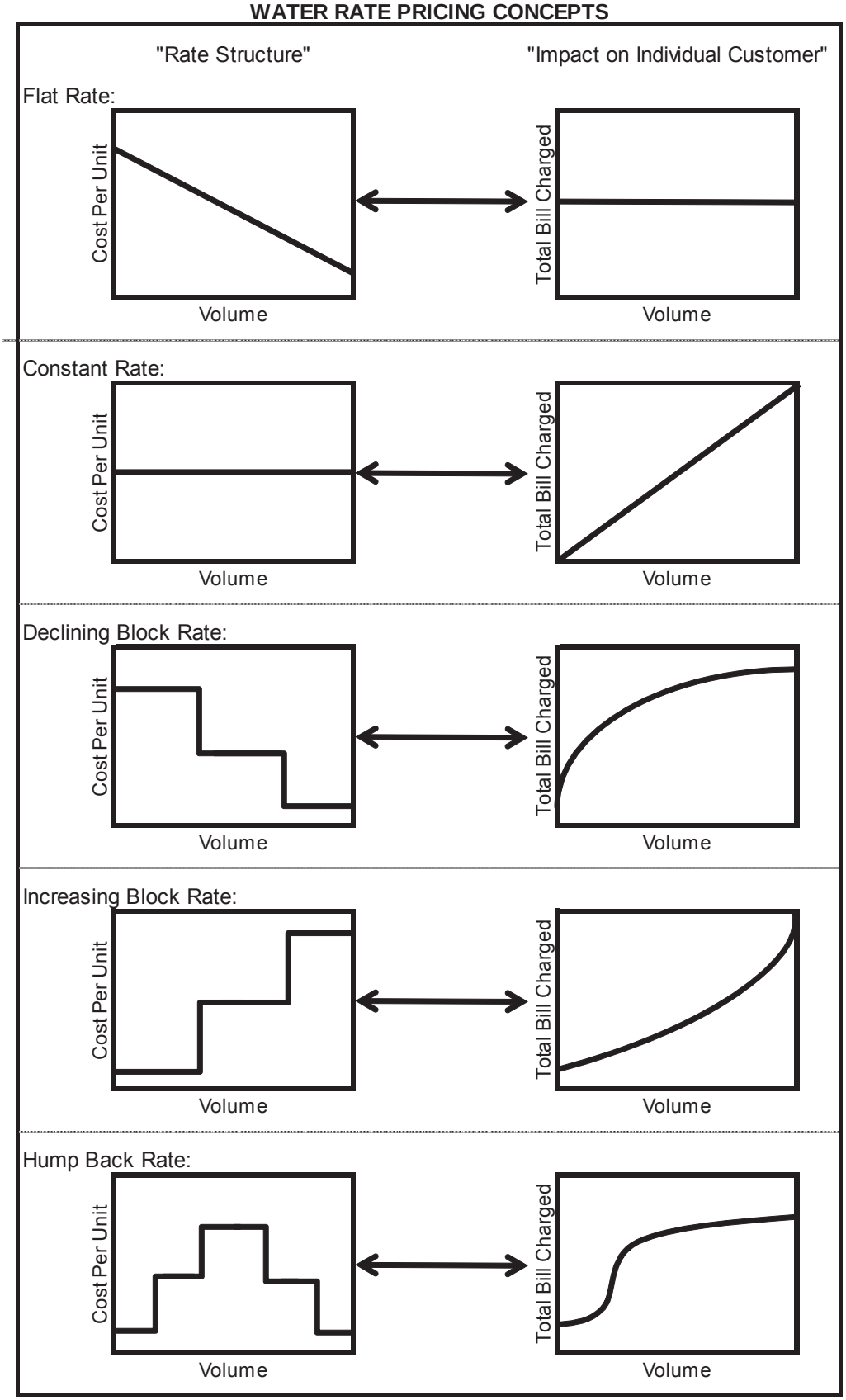
The Inverted Block method presents the most effective pricing method for encouraging conservation. Through this method, the price per unit consumed increases as total volumes consumed grow. The consumer becomes aware of consumption through metering with the charges increasing dramatically with usage. Hence, there normally is awareness that exercising control over usage can produce significant savings. This

method not only encourages conservation methods, but may also penalize legitimate high volume users if not properly structured.

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

Figure 6-1

WATER RATE PRICING CONCEPTS



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

6.4 Rate Structures in Ontario

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

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

6.5 Recommended Rate Structures

The Township currently does not have meters for their residential customers and select non-residential customers (I.C.I.). For these customers only a flat rate can be imposed. For those customers who do have meters, the municipality does not have base charges, only a metered rate. Therefore, based on the foregoing, there is no direct reason to

modify the municipality's approach and hence, it is recommended that the current rate structures (flat rates for non-metered customers and volume rates for metered customers) be continued in the future.

In regards to water, it is recommended that the flat rates for non-metered customers remain constant from 2016 – 2017 and increase by 2% per year for the remaining of the forecast period (2018 – 2021). The forecasted flat rates are presented in Table 6-1.

Similar to water, it is recommended that wastewater flat rates for non-metered customers will remain constant from 2016 – 2017 and increase thereafter by 2% per year for the remaining of the forecast period (2018 – 2021). The forecasted flat rates and corresponding revenue are provided in Table 6-2.

Table 6-1
Flat Rate Forecast – Water

Description	2015	2016	2017	2018	2019	2020	2021
Annual Percentage Change	0%	0%	0%	2%	2%	2%	2%
Residential Flat Rate - Annual (rounded)	548	548	549	560	572	583	595
Non-Residential Flat Rate - Annual (rounded)	657	657	658	671	685	699	714

Table 6-2
Flat Rate Forecast – Wastewater

Description	2015	2016	2017	2018	2019	2020	2021
Annual Percentage Change	0%	0%	0%	2%	2%	2%	2%
Residential Flat Rate - Annual (rounded)	674	674	674	687	701	715	730
Non-Residential Flat Rate - Annual (rounded)	808	808	808	824	841	857	875

7. Analysis of Water and Wastewater Rates and Policy Matters

7.1 Introduction

To summarize the analysis undertaken thus far, Chapter 2 reviewed capital-related issues and responds to the provincial directives to maintain and upgrade infrastructure to required levels. Chapter 4 provided a review of capital financing options to which water and wastewater reserve contributions will be the predominant basis for financing future capital replacement. Chapter 5 established the 10-year operating forecast of expenditures including an annual capital reserve contribution. The flat rate revenues are to ensure that fixed costs are recovered regardless of the amount of volume used by customers. This chapter will provide for the calculation of the volume rates over the forecast period. These calculations will be based on the net operating expenditures (the variable costs) provided in Chapter 5, divided by the water consumption forecast and wastewater volumes provided in Section 1.7.

7.2 Water Rates

Based on the discussion of rate structures provided in section 6.5 and the recommendation to continue with the present structures, the rates are calculated by taking the net recoverable amounts from Table 5-1 (the product of total expenditures less non-rate revenues and deduct the flat rate amounts provided in section 6.5) and completes the calculation by dividing them by the volumes resulting in the forecasted rates. As mentioned earlier, the volume rates mainly apply to non-residential (I.C.I.) customers that are on meters. The volume rates are anticipated to remain constant in 2016 - 2017, and increasing by 2% per year from 2018 – 2021. The volume rates are presented in Table 7-1.

Detailed calculations of the volume and flat rates are provided in Appendix C. A summary of the recommended flat rates and volume rates per year are as follows:

Table 7-1

Residential Water	2015 (Existing)	2016 (Proposed)	2017	2018	2019	2020	2021
Monthly Residential Flat Rate	45.67	45.69	45.67	46.58	47.51	48.46	49.43
Annual Residential Flat Rate (rounded)	548	548	548	559	570	582	593
Monthly I.C.I. Flat Rate	54.75	54.82	55.95	57.10	58.28	59.48	52.27
Annual I.C.I. Flat Rate (rounded)	657	658	671	685	699	714	627
Metered I.C.I. Volume Rates	2.01	2.01	2.01	2.05	2.09	2.13	2.18

7.3 Wastewater Rates

Similar to water, the calculation of the wastewater rates takes the net recoverable amounts from Table 5-2 and completes the calculation by dividing them by the volumes, resulting in the forecasted rates. Detailed calculations are provided in Appendix D. It is recommended that the wastewater flat and volume rates remain constant from 2016 – 2017 and increase by 2% per year thereafter from 2018 - 2021.

The following summarizes the recommended rates for wastewater:

Table 7-2

Residential Wastewater	2015 (Existing)	2016 (Proposed)	2017	2018	2019	2020	2021
Monthly Residential Flat Rate	56.17	56.17	56.17	57.29	58.44	59.60	60.80
Annual Residential Flat Rate (rounded)	674	674	674	687	701	715	730
Monthly I.C.I. Flat Rate	67.33	67.33	68.68	70.05	71.45	72.88	25.04
Annual I.C.I. Flat Rate (rounded)	808	808	824	841	857	875	301
Metered I.C.I. Volume Rates	2.47	2.47	2.47	2.52	2.57	2.62	2.67

8. Recommendations

As presented within this report, capital and operating expenditures have been identified and forecasted over a six-year period for water and wastewater services.

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

1. That Council provide for the recovery of all water and wastewater costs through full cost recovery rates.

2. That Council consider the Capital Plan for water and wastewater as provided in Tables 2-1 and 2-2 and the associated Capital Financing Plan as set out in Tables 4-1 and 4-2.

3. That Council consider the flat rates provided in Table 6-1 for water and Table 6-2 for wastewater.

4. That Council consider the volume rates for water and wastewater as provided in Tables 7-1 and 7-2 respectively.

Appendix A – Water System Inventory Data

Appendix A-1
Township of Wellington-North
Water Facilities

Item	*Description*	*Year Installed*	*Estimated Life*	*Replacement Year*	*Replacement Cost*	*Years until Replacement*	*Annual Lifecycle Contribution*	*Amount to be included in 6 year Forecast*
Arthur SCADA	Hardware	2006	8	2015	185,353	0	in capital budget	185,353
Arthur SCADA	Computer & Software	2006	5	2015	34,754	0	in capital budget	34,754
Arthur Well 7B	Pumphouse	1982	55	2037	173,769	22	9,841	-
Arthur Well 7B	Submersible Pump	2004	12	2016	23,169	1	in capital budget	23,169
Arthur Well 8A & 8B	Pumphouse	2005	55	2060	173,769	45	5,892	-
Arthur Well 8A & 8B	2 Submersible Pumps	2005	12	2017	46,338	2	in capital budget	46,338
Arthur Well 8A & 8B	Stand-by Power	2005	30	2035	75,300	20	4,605	-
Arthur	Elevated Tank 1	1932	85	2017	1,325,275	2	in capital budget	1,325,275
Arthur	Elevated Tank 2	1970	75	2045	1,325,275	30	59,173	-
Mt. Forest SCADA	Hardware	2006	8	2015	185,353	0	in capital budget	185,353
Mt. Forest SCADA	Computer & Software	2006	5	2015	34,754	0	in capital budget	34,754
Mt Forest	StorageTank	1985	75	2060	1,325,275	45	44,940	-
Mt. Forest Well No. 3	Pumphouse	2006	55	2061	173,769	46	5,813	-
Mt. Forest Well No. 3	Submersible Pump	2004	12	2016	23,169	1	in capital budget	23,169
Mt. Forest Well No. 3	Stand-by Power	2006	30	2036	75,300	21	4,426	-
Mt. Forest Well No. 4	Pumphouse	1962	55	2017	173,769	2	in capital budget	173,769
Mt. Forest Well No. 4	Lineshaft Pump	1990	25	2015	46,338	0	in capital budget	46,338
Mt. Forest Well No. 5	Pumphouse	1968	55	2023	173,769	8	23,721	-
Mt. Forest Well No. 5	Submersible Pump	2002	12	2015	23,169	0	in capital budget	23,169
Mt. Forest Well No. 6	Pumphouse	1979	55	2034	173,769	19	11,083	-
Mt. Forest Well No. 6	Lineshaft Pump	1990	25	2015	46,338	0	in capital budget	46,338
Total					**5,817,770**		**169,495**	**2,147,779**

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur	Arthur	188	150	AC	1972	50	2022	100,183	7	15,480	-
Arthur	Arthur	316	150	AC	1932	50	2015	168,393	0	in capital budget	168,393
Arthur	Arthur	579	150	AC	1932	50	2015	308,543	0	in capital budget	308,543
Arthur	Arthur	3,022	150	AC	1972	50	2022	1,610,394	7	248,825	-
Arthur	Arthur	30	150	AC	1982	50	2032	15,987	17	1,119	-
Arthur	Arthur	3	150	AC	1972	50	2022	1,599	7	247	-
Arthur	Arthur	45	150	AC	1972	50	2022	23,980	7	3,705	-
Arthur	Arthur	464	150	AC	1972	50	2022	247,261	7	38,205	-
Arthur	Arthur	11	150	AC	1992	50	2042	5,862	27	283	-
Arthur	Arthur	340	150	AC	1992	50	2042	181,183	27	8,750	-
Arthur	Arthur	4,101	150	AC	1992	50	2042	2,185,382	27	105,539	-
Arthur	Arthur	486	200	AC	1972	50	2022	270,245	7	41,756	-
Arthur	Arthur	3,730	150	AC	1972	50	2022	1,987,680	7	307,120	-
Arthur	Arthur	42	200	AC	1952	50	2015	23,354	0	in capital budget	23,354
Arthur	Arthur	259	150	AC	1992	50	2042	138,019	27	6,665	-
Arthur	Arthur	152	150	AC	1952	50	2015	80,999	0	in capital budget	80,999
Arthur	Arthur	91	150	AC	1932	50	2015	48,493	0	in capital budget	48,493
Arthur	Arthur	123	150	AC	1975	50	2025	65,545	10	7,297	-
Arthur	Arthur	376	150	AC	1952	50	2015	200,367	0	in capital budget	200,367
Arthur	Arthur	306	250	PVC	1992	80	2072	180,493	57	5,336	-
Arthur	Arthur	472	200	AC	1992	50	2042	262,460	27	12,675	-
Arthur	Arthur	1,008	250	AC	1992	50	2042	595,539	27	28,760	-
Arthur	Arthur	1,045	300	AC	1952	50	2015	641,611	0	in capital budget	641,611
Arthur: - Water Distribution	ADELAIDE ST	15	150	CI	1975	80	2055	7,924	40	290	-
Arthur: - Water Distribution	ADELAIDE ST	169	150	CI	1975	80	2055	90,016	40	3,291	-
Arthur: - Water Distribution	ADELAIDE ST	17	150	CI	1975	80	2055	9,251	40	338	-
Arthur: - Water Distribution	ADELAIDE ST	3	150	CI	1975	80	2055	1,380	40	50	-
Arthur: - Water Distribution	ADELAIDE ST	3	150	DI	1985	50	2035	1,780	20	109	-
Arthur: - Water Distribution	ADELAIDE ST	173	150	PVC	2006	80	2086	92,110	71	2,440	-
Arthur: - Water Distribution	ADELAIDE ST	8	150	PVC	2006	80	2086	4,077	71	108	-
Arthur: - Water Distribution	ADELAIDE ST	63	150	PVC	2006	80	2086	33,817	71	896	-
Arthur: - Water Distribution	ANDREW ST	10	150	PVC	1995	80	2075	5,388	60	155	-
Arthur: - Water Distribution	ANDREW ST	85	150	PVC	1995	80	2075	45,472	60	1,308	-
Arthur: - Water Distribution	ANDREW ST	33	150	PVC	1995	80	2075	17,831	60	513	-
Arthur: - Water Distribution	ANDREW ST	115	150	PVC	1995	80	2075	61,154	60	1,759	-
Arthur: - Water Distribution	ANDREW ST	2	150	PVC	1995	80	2075	1,327	60	38	-
Arthur: - Water Distribution	ANDREW ST	9	150	PVC	1995	80	2075	4,993	60	144	-
Arthur: - Water Distribution	ANDREW ST	2	150	PVC	1995	80	2075	938	60	27	-
Arthur: - Water Distribution	ANDREW ST	18	150	PVC	1995	80	2075	9,517	60	274	-
Arthur: - Water Distribution	BELLEFIELD CR	54	150	PVC	1975	80	2055	29,032	40	1,061	-
Arthur: - Water Distribution	BELLEFIELD CR	20	150	PVC	1975	80	2055	10,642	40	389	-
Arthur: - Water Distribution	BELLEFIELD CR	66	150	PVC	1975	80	2055	34,915	40	1,276	-
Arthur: - Water Distribution	BELLEFIELD CR	1	150	PVC	1975	80	2055	336	40	12	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	BELLEFIELD CR	1	150	PVC	1975	80	2055	368	40	13	-
Arthur: - Water Distribution	BELLEFIELD CR	45	150	PVC	1975	80	2055	24,060	40	880	-
Arthur: - Water Distribution	BELLEFIELD CR	1	150	PVC	1975	80	2055	368	40	13	-
Arthur: - Water Distribution	BELLEFIELD CR	12	150	PVC	1975	80	2055	6,549	40	239	-
Arthur: - Water Distribution	BELLEFIELD CR	1	150	PVC	1975	80	2055	464	40	17	-
Arthur: - Water Distribution	BELLEFIELD CR	20	150	PVC	1975	80	2055	10,839	40	396	-
Arthur: - Water Distribution	BELLEFIELD CR	5	150	PVC	1975	80	2055	2,824	40	103	-
Arthur: - Water Distribution	BELLEFIELD CR	6	150	PVC	1975	80	2055	3,208	40	117	-
Arthur: - Water Distribution	BELLEFIELD CR	5	150	PVC	1975	80	2055	2,750	40	101	-
Arthur: - Water Distribution	BELLEFIELD CR	21	150	PVC	1975	80	2055	11,223	40	410	-
Arthur: - Water Distribution	BELLEFIELD CR	30	150	PVC	1975	80	2055	16,083	40	588	-
Arthur: - Water Distribution	BELLEFIELD CR	22	150	PVC	1975	80	2055	11,734	40	429	-
Arthur: - Water Distribution	BELLEFIELD CR	17	150	PVC	1975	80	2055	8,926	40	326	-
Arthur: - Water Distribution	BELLEFIELD CR	0	150	PVC	1975	80	2055	197	40	7	-
Arthur: - Water Distribution	BELLEFIELD CR	57	150	PVC	1975	80	2055	30,140	40	1,102	-
Arthur: - Water Distribution	BELLEFIELD CR	0	150	PVC	1975	80	2055	149	40	5	-
Arthur: - Water Distribution	CARROL ST	29	150	CI	1975	80	2055	15,294	40	559	-
Arthur: - Water Distribution	CARROL ST	104	150	CI	1975	80	2055	55,495	40	2,029	-
Arthur: - Water Distribution	CARROL ST	14	150	CI	1975	80	2055	7,498	40	274	-
Arthur: - Water Distribution	CARROL ST	5	150	CI	1975	80	2055	2,505	40	92	-
Arthur: - Water Distribution	CARROL ST	15	150	PVC	1995	80	2075	7,967	60	229	-
Arthur: - Water Distribution	CARROL ST	5	150	PVC	1995	80	2075	2,648	60	76	-
Arthur: - Water Distribution	CARROL ST	79	150	PVC	1995	80	2075	42,114	60	1,212	-
Arthur: - Water Distribution	CARROL ST	6	150	PVC	1995	80	2075	3,213	60	92	-
Arthur: - Water Distribution	CARROL ST	12	150	PVC	1995	80	2075	6,219	60	179	-
Arthur: - Water Distribution	CHARLES ST	64	150	CI	1932	80	2015	34,100	0	in capital budget	34,100
Arthur: - Water Distribution	CHARLES ST	14	150	CI	1932	80	2015	7,295	0	in capital budget	7,295
Arthur: - Water Distribution	CHARLES ST	36	150	CI	1932	80	2015	19,045	0	in capital budget	19,045
Arthur: - Water Distribution	CHARLES ST	142	150	CI	1932	80	2015	75,452	0	in capital budget	75,452
Arthur: - Water Distribution	CHARLES ST	21	150	PE	1990	50	2040	11,180	25	573	-
Arthur: - Water Distribution	CHARLES ST	104	250	PE	1990	50	2040	61,563	25	3,153	-
Arthur: - Water Distribution	CHARLES ST	10	150	PVC	1995	80	2075	5,324	60	153	-
Arthur: - Water Distribution	CHARLES ST	1	150	PVC	1995	80	2075	560	60	16	-
Arthur: - Water Distribution	CHARLES ST	16	150	PVC	1995	80	2075	8,521	60	245	-
Arthur: - Water Distribution	CHARLES ST	0	150	PVC	1995	80	2075	139	60	4	-
Arthur: - Water Distribution	CHARLES ST	35	150	PVC	1995	80	2075	18,747	60	539	-
Arthur: - Water Distribution	CHARLES ST	2	150	PVC	1995	80	2075	1,055	60	30	-
Arthur: - Water Distribution	CHARLES ST	129	150	PVC	1995	80	2075	68,737	60	1,977	-
Arthur: - Water Distribution	CHARLES ST	7	150	PVC	1995	80	2075	3,464	60	100	-
Arthur: - Water Distribution	CHARLES ST	2	150	PVC	1995	80	2075	1,119	60	32	-
Arthur: - Water Distribution	CHARLES ST	5	150	PVC	1995	80	2075	2,835	60	82	-
Arthur: - Water Distribution	CHARLES ST	7	150	PVC	1995	80	2075	3,837	60	110	-
Arthur: - Water Distribution	CHARLES ST	7	150	PVC	1995	80	2075	3,629	60	104	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	CHARLES ST	1	150	PVC	1995	80	2075	330	60	10	-
Arthur: - Water Distribution	CLARKE ST	90	150	CI	1975	80	2055	47,779	40	1,747	-
Arthur: - Water Distribution	CLARKE ST	12	150	CI	1975	80	2055	6,309	40	231	-
Arthur: - Water Distribution	CLARKE ST	136	150	CI	1975	80	2055	72,436	40	2,648	-
Arthur: - Water Distribution	CLARKE ST	115	150	CI	1975	80	2055	61,112	40	2,234	-
Arthur: - Water Distribution	CLARKE ST	12	150	CI	1975	80	2055	6,592	40	241	-
Arthur: - Water Distribution	CLARKE ST	5	150	CI	1975	80	2055	2,814	40	103	-
Arthur: - Water Distribution	CLARKE ST	6	150	CI	1975	80	2055	3,421	40	125	-
Arthur: - Water Distribution	CLARKE ST	2	150	CI	1975	80	2055	1,327	40	49	-
Arthur: - Water Distribution	CLARKE ST	1	150	CI	1975	80	2055	613	40	22	-
Arthur: - Water Distribution	CLARKE ST	5	150	CI	1975	80	2055	2,792	40	102	-
Arthur: - Water Distribution	CLARKE ST	81	150	PVC	1995	80	2075	42,935	60	1,235	-
Arthur: - Water Distribution	CLARKE ST	6	150	PVC	1995	80	2075	3,069	60	88	-
Arthur: - Water Distribution	CLARKE ST	4	150	PVC	1995	80	2075	2,211	60	64	-
Arthur: - Water Distribution	CLARKE ST	1	150	PVC	1995	80	2075	416	60	12	-
Arthur: - Water Distribution	CLARKE ST	149	150	PVC	1995	80	2075	79,134	60	2,277	-
Arthur: - Water Distribution	CLARKE ST	2	150	PVC	1995	80	2075	1,162	60	33	-
Arthur: - Water Distribution	CLARKE ST	8	150	PVC	1995	80	2075	4,370	60	126	-
Arthur: - Water Distribution	CONESTOGA ST	9	150	PVC	1995	80	2075	4,913	60	141	-
Arthur: - Water Distribution	CONESTOGA ST	5	150	PVC	1995	80	2075	2,862	60	82	-
Arthur: - Water Distribution	CONESTOGA ST	5	150	PVC	1995	80	2075	2,648	60	76	-
Arthur: - Water Distribution	CONESTOGA ST	3	150	PVC	1995	80	2075	1,753	60	50	-
Arthur: - Water Distribution	CONESTOGA ST	2	150	PVC	1995	80	2075	847	60	24	-
Arthur: - Water Distribution	CONESTOGA ST	86	150	PVC	1995	80	2075	45,722	60	1,315	-
Arthur: - Water Distribution	CONESTOGA ST	128	150	PVC	1995	80	2075	68,386	60	1,967	-
Arthur: - Water Distribution	CONESTOGA ST	16	150	PVC	1995	80	2075	8,574	60	247	-
Arthur: - Water Distribution	CONESTOGA ST	109	150	PVC	1995	80	2075	58,010	60	1,669	-
Arthur: - Water Distribution	CONESTOGA ST	8	150	PVC	1995	80	2075	4,077	60	117	-
Arthur: - Water Distribution	CONESTOGA ST	1	150	PVC	1995	80	2075	789	60	23	-
Arthur: - Water Distribution	CONESTOGA ST	5	150	PVC	1995	80	2075	2,489	60	72	-
Arthur: - Water Distribution	CONESTOGA ST	71	150	PVC	1995	80	2075	37,803	60	1,088	-
Arthur: - Water Distribution	CONESTOGA ST	6	150	PVC	1995	80	2075	2,931	60	84	-
Arthur: - Water Distribution	CONESTOGA ST	6	150	PVC	1995	80	2075	3,112	60	90	-
Arthur: - Water Distribution	CONESTOGA ST	103	150	PVC	1995	80	2075	54,957	60	1,581	-
Arthur: - Water Distribution	CONESTOGA ST	12	150	PVC	1995	80	2075	6,309	60	182	-
Arthur: - Water Distribution	CONESTOGA ST	90	150	PVC	1995	80	2075	47,720	60	1,373	-
Arthur: - Water Distribution	CONESTOGA ST	90	150	PVC	1995	80	2075	48,115	60	1,384	-
Arthur: - Water Distribution	CPR	144	150	PVC	2004	80	2084	76,981	69	2,067	-
Arthur: - Water Distribution	CPR	1	150	PVC	2004	80	2084	773	69	21	-
Arthur: - Water Distribution	CPR	3	150	PVC	2004	80	2084	1,615	69	43	-
Arthur: - Water Distribution	CPR	144	150	PVC	2004	80	2084	76,726	69	2,060	-
Arthur: - Water Distribution	DOMVILLE ST	15	150	DI	1985	50	2035	7,977	20	488	-
Arthur: - Water Distribution	DOMVILLE ST	14	150	DI	1985	50	2035	7,365	20	450	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	DOMVILLE ST	3	150	PVC	1995	80	2075	1,785	60	51	-
Arthur: - Water Distribution	DOMVILLE ST	139	150	PVC	1995	80	2075	74,274	60	2,137	-
Arthur: - Water Distribution	DOMVILLE ST	203	150	PVC	1995	80	2075	108,155	60	3,111	-
Arthur: - Water Distribution	DOMVILLE ST	7	150	PVC	1995	80	2075	3,789	60	109	-
Arthur: - Water Distribution	DOMVILLE ST	117	150	PVC	1995	80	2075	62,609	60	1,801	-
Arthur: - Water Distribution	DOMVILLE ST	1	150	PVC	1995	80	2075	725	60	21	-
Arthur: - Water Distribution	DOMVILLE ST	4	150	PVC	1995	80	2075	2,371	60	68	-
Arthur: - Water Distribution	DOMVILLE ST	17	150	PVC	1995	80	2075	9,176	60	264	-
Arthur: - Water Distribution	DOMVILLE ST	3	150	PVC	1995	80	2075	1,759	60	51	-
Arthur: - Water Distribution	DOMVILLE ST	113	150	PVC	1995	80	2075	59,987	60	1,726	-
Arthur: - Water Distribution	DOMVILLE ST	3	150	PVC	1995	80	2075	1,407	60	40	-
Arthur: - Water Distribution	DOMVILLE ST	2	150	PVC	1995	80	2075	1,268	60	36	-
Arthur: - Water Distribution	DOMVILLE ST	57	150	PVC	1995	80	2075	30,599	60	880	-
Arthur: - Water Distribution	DOMVILLE ST	98	150	PVC	1995	80	2075	52,181	60	1,501	-
Arthur: - Water Distribution	DOMVILLE ST	7	150	PVC	1995	80	2075	3,943	60	113	-
Arthur: - Water Distribution	DOMVILLE ST	1	150	PVC	1995	80	2075	687	60	20	-
Arthur: - Water Distribution	DOMVILLE ST	121	150	PVC	1995	80	2075	64,442	60	1,854	-
Arthur: - Water Distribution	DOMVILLE ST	2	150	PVC	1995	80	2075	917	60	26	-
Arthur: - Water Distribution	DOMVILLE ST	9	150	PVC	1995	80	2075	4,641	60	134	-
Arthur: - Water Distribution	DOMVILLE ST	118	150	PVC	1995	80	2075	63,110	60	1,816	-
Arthur: - Water Distribution	DOMVILLE ST	7	150	PVC	1995	80	2075	3,506	60	101	-
Arthur: - Water Distribution	DOMVILLE ST	12	150	PVC	1995	80	2075	6,160	60	177	-
Arthur: - Water Distribution	DOMVILLE ST	13	150	PVC	1995	80	2075	7,066	60	203	-
Arthur: - Water Distribution	DOMVILLE ST	171	150	PVC	1995	80	2075	91,082	60	2,620	-
Arthur: - Water Distribution	DOMVILLE ST	7	150	PVC	1995	80	2075	3,730	60	107	-
Arthur: - Water Distribution	DOMVILLE ST	6	150	PVC	1995	80	2075	3,384	60	97	-
Arthur: - Water Distribution	DOMVILLE ST	0	150	PVC	1995	80	2075	144	60	4	-
Arthur: - Water Distribution	DOMVILLE ST	130	150	PVC	1995	80	2075	69,244	60	1,992	-
Arthur: - Water Distribution	DOMVILLE ST	4	150	PVC	1995	80	2075	2,345	60	67	-
Arthur: - Water Distribution	DOMVILLE ST	11	150	PVC	1995	80	2075	6,107	60	176	-
Arthur: - Water Distribution	DOMVILLE ST	2	150	PVC	1995	80	2075	1,071	60	31	-
Arthur: - Water Distribution	DOMVILLE ST	1	150	PVC	1995	80	2075	544	60	16	-
Arthur: - Water Distribution	DOMVILLE ST	2	150	PVC	1995	80	2075	1,108	60	32	-
Arthur: - Water Distribution	DOMVILLE ST	4	150	PVC	1995	80	2075	1,886	60	54	-
Arthur: - Water Distribution	DOMVILLE ST	9	150	PVC	1995	80	2075	4,764	60	137	-
Arthur: - Water Distribution	DUKE ST	99	150	PVC	1995	80	2075	52,612	60	1,514	-
Arthur: - Water Distribution	DUKE ST	1	150	PVC	1995	80	2075	746	60	21	-
Arthur: - Water Distribution	EASTVIEW DR	22	150	PVC	1975	80	2055	11,548	40	422	-
Arthur: - Water Distribution	EASTVIEW DR	24	150	PVC	1975	80	2055	12,917	40	472	-
Arthur: - Water Distribution	EASTVIEW DR	36	150	PVC	1975	80	2055	19,397	40	709	-
Arthur: - Water Distribution	EASTVIEW DR	131	150	PVC	1975	80	2055	69,793	40	2,551	-
Arthur: - Water Distribution	EASTVIEW DR	8	150	PVC	1975	80	2055	4,029	40	147	-
Arthur: - Water Distribution	EASTVIEW DR	5	150	PVC	1975	80	2055	2,872	40	105	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	EASTVIEW DR	1	150	PVC	1975	80	2055	576	40	21	-
Arthur: - Water Distribution	EASTVIEW DR	11	150	PVC	1975	80	2055	5,595	40	205	-
Arthur: - Water Distribution	EASTVIEW DR	57	150	PVC	1975	80	2055	30,279	40	1,107	-
Arthur: - Water Distribution	EASTVIEW DR	16	150	PVC	1975	80	2055	8,510	40	311	-
Arthur: - Water Distribution	EASTVIEW DR	23	150	PVC	1975	80	2055	12,177	40	445	-
Arthur: - Water Distribution	EASTVIEW DR	1	150	PVC	1975	80	2055	693	40	25	-
Arthur: - Water Distribution	EDWARD ST	7	150	CI	1932	80	2015	3,624	0	in capital budget	3,624
Arthur: - Water Distribution	EDWARD ST	118	150	CI	1932	80	2015	62,705	0	in capital budget	62,705
Arthur: - Water Distribution	EDWARD ST	13	150	CI	1932	80	2015	6,874	0	in capital budget	6,874
Arthur: - Water Distribution	EDWARD ST	105	150	CI	1932	80	2015	56,033	0	in capital budget	56,033
Arthur: - Water Distribution	EDWARD ST	11	150	PVC	1995	80	2075	5,633	60	162	-
Arthur: - Water Distribution	EDWARD ST	1	150	PVC	1995	80	2075	469	60	13	-
Arthur: - Water Distribution	EDWARD ST	2	150	PVC	1995	80	2075	831	60	24	-
Arthur: - Water Distribution	EDWARD ST	3	150	PVC	1995	80	2075	1,332	60	38	-
Arthur: - Water Distribution	EDWARD ST	3	150	PVC	1995	80	2075	1,513	60	44	-
Arthur: - Water Distribution	ELIZA ST	80	150	CI	1932	80	2015	42,647	0	in capital budget	42,647
Arthur: - Water Distribution	ELIZA ST	2	150	CI	1932	80	2015	1,183	0	in capital budget	1,183
Arthur: - Water Distribution	ELIZA ST	58	150	CI	1932	80	2015	31,147	0	in capital budget	31,147
Arthur: - Water Distribution	ELIZA ST	3	150	DI	1985	50	2035	1,748	20	107	-
Arthur: - Water Distribution	ELIZA ST	139	150	DI	1985	50	2035	74,162	20	4,536	-
Arthur: - Water Distribution	ELIZA ST	1	150	DI	1985	50	2035	634	20	39	-
Arthur: - Water Distribution	ELIZA ST	26	150	DI	1985	50	2035	13,615	20	833	-
Arthur: - Water Distribution	ELIZA ST	308	150	DI	1985	50	2035	163,981	20	10,029	-
Arthur: - Water Distribution	ELIZA ST	13	150	PVC	1995	80	2075	6,794	60	195	-
Arthur: - Water Distribution	ELIZA ST	3	150	PVC	1995	80	2075	1,801	60	52	-
Arthur: - Water Distribution	ELIZA ST	1	150	PVC	1995	80	2075	703	60	20	-
Arthur: - Water Distribution	ELIZA ST	2	150	PVC	1995	80	2075	1,279	60	37	-
Arthur: - Water Distribution	ELIZA ST	2	150	PVC	1995	80	2075	1,124	60	32	-
Arthur: - Water Distribution	ELIZA ST	21	150	PVC	1995	80	2075	11,452	60	329	-
Arthur: - Water Distribution	ELIZA ST	86	150	PVC	1995	80	2075	45,599	60	1,312	-
Arthur: - Water Distribution	ELIZA ST	13	150	PVC	1995	80	2075	7,098	60	204	-
Arthur: - Water Distribution	ELIZA ST	13	150	PVC	1995	80	2075	7,093	60	204	-
Arthur: - Water Distribution	ELIZA ST	15	150	PVC	1995	80	2075	7,844	60	226	-
Arthur: - Water Distribution	ELIZA ST	15	150	PVC	1995	80	2075	7,844	60	226	-
Arthur: - Water Distribution	ELIZA ST	7	150	PVC	1995	80	2075	3,613	60	104	-
Arthur: - Water Distribution	ELIZA ST	6	150	PVC	1995	80	2075	2,942	60	85	-
Arthur: - Water Distribution	ELIZA ST	11	150	PVC	1995	80	2075	6,027	60	173	-
Arthur: - Water Distribution	ELIZA ST	19	150	PVC	1995	80	2075	10,221	60	294	-
Arthur: - Water Distribution	ELIZA ST	18	150	PVC	1995	80	2075	9,805	60	282	-
Arthur: - Water Distribution	ELIZA ST	3	150	PVC	1995	80	2075	1,449	60	42	-
Arthur: - Water Distribution	ELIZA ST	3	150	PVC	1995	80	2075	1,545	60	44	-
Arthur: - Water Distribution	ELIZA ST	136	150	PVC	1995	80	2075	72,489	60	2,085	-
Arthur: - Water Distribution	ELIZA ST	2	150	PVC	1995	80	2075	917	60	26	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	ELIZA ST	4	150	PVC	1995	80	2075	2,020	60	58	-
Arthur: - Water Distribution	ELIZA ST	9	150	PVC	1995	80	2075	4,940	60	142	-
Arthur: - Water Distribution	ELIZA ST	1	150	PVC	1995	80	2075	592	60	17	-
Arthur: - Water Distribution	ELIZA ST	32	150	PVC	1995	80	2075	16,807	60	484	-
Arthur: - Water Distribution	ELIZA ST	4	150	PVC	1995	80	2075	2,148	60	62	-
Arthur: - Water Distribution	ELIZA ST	105	150	PVC	1995	80	2075	55,810	60	1,606	-
Arthur: - Water Distribution	ELIZA ST	85	150	PVC	1995	80	2075	45,402	60	1,306	-
Arthur: - Water Distribution	ELIZA ST	115	150	PVC	1995	80	2075	61,405	60	1,766	-
Arthur: - Water Distribution	ELIZA ST	4	150	PVC	1995	80	2075	2,020	60	58	-
Arthur: - Water Distribution	FARRELL LN	3	150	PVC	1995	80	2075	1,540	60	44	-
Arthur: - Water Distribution	FARRELL LN	2	150	PVC	1995	80	2075	1,295	60	37	-
Arthur: - Water Distribution	FARRELL LN	13	150	PVC	1995	80	2075	6,901	60	199	-
Arthur: - Water Distribution	FARRELL LN	43	150	PVC	1995	80	2075	23,047	60	663	-
Arthur: - Water Distribution	FARRELL LN	79	150	PVC	1995	80	2075	41,976	60	1,208	-
Arthur: - Water Distribution	FARRELL LN	2	150	PVC	1995	80	2075	1,210	60	35	-
Arthur: - Water Distribution	FARRELL LN	3	150	PVC	1995	80	2075	1,497	60	43	-
Arthur: - Water Distribution	FARRELL LN	2	150	PVC	1995	80	2075	981	60	28	-
Arthur: - Water Distribution	FARRELL LN	2	150	PVC	1995	80	2075	1,124	60	32	-
Arthur: - Water Distribution	FARRELL LN	2	150	PVC	1995	80	2075	1,172	60	34	-
Arthur: - Water Distribution	FRANCIS ST	5	150	CI	1932	80	2015	2,414	0	in capital budget	2,414
Arthur: - Water Distribution	FRANCIS ST	111	150	CI	1932	80	2015	59,241	0	in capital budget	59,241
Arthur: - Water Distribution	FRANCIS ST	5	150	CI	1932	80	2015	2,616	0	in capital budget	2,616
Arthur: - Water Distribution	FRANCIS ST	74	150	CI	1932	80	2015	39,311	0	in capital budget	39,311
Arthur: - Water Distribution	FRANCIS ST	27	150	CI	1932	80	2015	14,601	0	in capital budget	14,601
Arthur: - Water Distribution	FRANCIS ST	140	150	PVC	1995	80	2075	74,855	60	2,153	-
Arthur: - Water Distribution	FRANCIS ST	7	150	PVC	1995	80	2075	3,826	60	110	-
Arthur: - Water Distribution	FRANCIS ST	15	150	PVC	1995	80	2075	8,009	60	230	-
Arthur: - Water Distribution	FRANCIS ST	14	150	PVC	1995	80	2075	7,194	60	207	-
Arthur: - Water Distribution	FRANCIS ST	113	150	PVC	1995	80	2075	60,062	60	1,728	-
Arthur: - Water Distribution	FRANCIS ST	18	150	PVC	1995	80	2075	9,651	60	278	-
Arthur: - Water Distribution	FRANCIS ST	11	150	PVC	1995	80	2075	6,054	60	174	-
Arthur: - Water Distribution	FRANCIS ST	50	150	PVC	1995	80	2075	26,474	60	762	-
Arthur: - Water Distribution	FRANCIS ST	1	150	PVC	1995	80	2075	735	60	21	-
Arthur: - Water Distribution	FREDERICK ST	4	150	CI	1932	80	2015	2,302	0	in capital budget	2,302
Arthur: - Water Distribution	FREDERICK ST	4	150	CI	1932	80	2015	2,110	0	in capital budget	2,110
Arthur: - Water Distribution	FREDERICK ST	2	150	CI	1932	80	2015	1,162	0	in capital budget	1,162
Arthur: - Water Distribution	FREDERICK ST	104	150	CI	1932	80	2015	55,330	0	in capital budget	55,330
Arthur: - Water Distribution	FREDERICK ST	113	150	CI	1932	80	2015	60,169	0	in capital budget	60,169
Arthur: - Water Distribution	FREDERICK ST	15	150	CI	1932	80	2015	7,956	0	in capital budget	7,956
Arthur: - Water Distribution	FREDERICK ST	13	150	CI	1932	80	2015	6,832	0	in capital budget	6,832
Arthur: - Water Distribution	FREDERICK ST	76	150	CI	1932	80	2015	40,681	0	in capital budget	40,681
Arthur: - Water Distribution	FREDERICK ST	3	150	CI	1932	80	2015	1,743	0	in capital budget	1,743
Arthur: - Water Distribution	FREDERICK ST	54	150	CI	1932	80	2015	28,915	0	in capital budget	28,915

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	FREDERICK ST	5	150	CI	1932	80	2015	2,441	0	in capital budget	2,441
Arthur: - Water Distribution	FREDERICK ST	10	150	CI	1932	80	2015	5,169	0	in capital budget	5,169
Arthur: - Water Distribution	FREDERICK ST	5	150	CI	1932	80	2015	2,867	0	in capital budget	2,867
Arthur: - Water Distribution	FREDERICK ST	14	150	CI	1932	80	2015	7,722	0	in capital budget	7,722
Arthur: - Water Distribution	FREDERICK ST	7	150	CI	1932	80	2015	3,608	0	in capital budget	3,608
Arthur: - Water Distribution	FREDERICK ST	13	150	PVC	1995	80	2075	6,853	60	197	-
Arthur: - Water Distribution	FREDERICK ST	10	150	PVC	1995	80	2075	5,121	60	147	-
Arthur: - Water Distribution	FREDERICK ST	65	150	PVC	1995	80	2075	34,489	60	992	-
Arthur: - Water Distribution	FREDERICK ST	18	150	PVC	1995	80	2075	9,725	60	280	-
Arthur: - Water Distribution	FREDERICK ST	1	150	PVC	1995	80	2075	650	60	19	-
Arthur: - Water Distribution	FREDERICK ST	2	150	PVC	1995	80	2075	1,023	60	29	-
Arthur: - Water Distribution	FREDERICK ST	64	150	PVC	1995	80	2075	33,913	60	976	-
Arthur: - Water Distribution	FREDERICK ST	12	150	PVC	1995	80	2075	6,459	60	186	-
Arthur: - Water Distribution	FREDERICK ST	7	150	PVC	1995	80	2075	3,714	60	107	-
Arthur: - Water Distribution	FREDERICK ST	1	150	PVC	1995	80	2075	538	60	15	-
Arthur: - Water Distribution	FREDERICK ST	127	150	PVC	1995	80	2075	67,475	60	1,941	-
Arthur: - Water Distribution	FREDERICK ST	21	150	PVC	1995	80	2075	11,383	60	327	-
Arthur: - Water Distribution	FREDERICK ST	128	150	PVC	1995	80	2075	67,970	60	1,955	-
Arthur: - Water Distribution	FREDERICK ST	14	150	PVC	1995	80	2075	7,716	60	222	-
Arthur: - Water Distribution	FREDERICK ST	86	150	PVC	1995	80	2075	45,615	60	1,312	-
Arthur: - Water Distribution	GEORGE ST	52	250	PE	1990	50	2040	30,622	25	1,568	-
Arthur: - Water Distribution	GEORGE ST	31	250	PE	1990	50	2040	18,392	25	942	-
Arthur: - Water Distribution	GEORGE ST	18	250	PE	1990	50	2040	10,635	25	545	-
Arthur: - Water Distribution	GEORGE ST	51	250	PE	1990	50	2040	30,374	25	1,556	-
Arthur: - Water Distribution	GEORGE ST	7	250	PVC	1995	80	2075	4,071	60	117	-
Arthur: - Water Distribution	GEORGE ST	3	250	PVC	1995	80	2075	1,672	60	48	-
Arthur: - Water Distribution	GEORGE ST	4	250	PVC	1995	80	2075	2,292	60	66	-
Arthur: - Water Distribution	GEORGE ST	3	250	PVC	1995	80	2075	1,524	60	44	-
Arthur: - Water Distribution	GEORGE ST	5	250	PVC	1995	80	2075	2,925	60	84	-
Arthur: - Water Distribution	GEORGE ST	3	250	PVC	1995	80	2075	1,501	60	43	-
Arthur: - Water Distribution	GEORGE ST	13	250	PVC	1995	80	2075	7,474	60	215	-
Arthur: - Water Distribution	GEORGE ST	3	250	PVC	1995	80	2075	1,761	60	51	-
Arthur: - Water Distribution	GEORGE ST	102	250	PVC	1995	80	2075	60,210	60	1,732	-
Arthur: - Water Distribution	GEORGE ST	55	250	PVC	1995	80	2075	32,459	60	934	-
Arthur: - Water Distribution	GEORGE ST	2	250	PVC	1995	80	2075	1,117	60	32	-
Arthur: - Water Distribution	GEORGE ST	7	250	PVC	1995	80	2075	4,183	60	120	-
Arthur: - Water Distribution	GEORGE ST	1	250	PVC	1995	80	2075	644	60	19	-
Arthur: - Water Distribution	GEORGE ST	12	250	PVC	1995	80	2075	7,155	60	206	-
Arthur: - Water Distribution	GEORGE ST	2	250	PVC	1995	80	2075	1,377	60	40	-
Arthur: - Water Distribution	GEORGE ST	6	250	PVC	1995	80	2075	3,320	60	96	-
Arthur: - Water Distribution	GEORGE ST	101	250	PVC	1995	80	2075	59,926	60	1,724	-
Arthur: - Water Distribution	GEORGE ST	2	250	PVC	1995	80	2075	1,229	60	35	-
Arthur: - Water Distribution	GEORGE ST	12	250	PVC	1995	80	2075	7,308	60	210	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	GEORGE ST	7	250	PVC	1995	80	2075	4,148	60	119	-
Arthur: - Water Distribution	GEORGE ST	3	250	PVC	1995	80	2075	1,873	60	54	-
Arthur: - Water Distribution	GEORGE ST	81	250	PVC	1995	80	2075	48,128	60	1,385	-
Arthur: - Water Distribution	GEORGE ST	1	250	PVC	1995	80	2075	597	60	17	-
Arthur: - Water Distribution	GEORGE ST	1	250	PVC	1995	80	2075	520	60	15	-
Arthur: - Water Distribution	GEORGE ST	52	250	PVC	1995	80	2075	30,740	60	884	-
Arthur: - Water Distribution	GEORGE ST	139	250	PVC	1995	80	2075	81,845	60	2,355	-
Arthur: - Water Distribution	GEORGE ST	114	250	PVC	1995	80	2075	67,057	60	1,929	-
Arthur: - Water Distribution	GEORGE ST	37	250	PVC	1995	80	2075	21,701	60	624	-
Arthur: - Water Distribution	GEORGE ST	3	250	PVC	1995	80	2075	1,619	60	47	-
Arthur: - Water Distribution	GEORGE ST	3	250	PVC	1995	80	2075	1,772	60	51	-
Arthur: - Water Distribution	GEORGE ST	10	250	PVC	1995	80	2075	6,079	60	175	-
Arthur: - Water Distribution	GEORGE ST	85	250	PVC	1995	80	2075	50,461	60	1,452	-
Arthur: - Water Distribution	GEORGE ST	6	250	PVC	1995	80	2075	3,539	60	102	-
Arthur: - Water Distribution	GEORGINA ST	3	150	CI	1932	80	2015	1,668	0	in capital budget	1,668
Arthur: - Water Distribution	GEORGINA ST	5	150	CI	1932	80	2015	2,569	0	in capital budget	2,569
Arthur: - Water Distribution	GEORGINA ST	107	150	CI	1932	80	2015	56,817	0	in capital budget	56,817
Arthur: - Water Distribution	GEORGINA ST	19	150	CI	1932	80	2015	10,269	0	in capital budget	10,269
Arthur: - Water Distribution	GEORGINA ST	124	150	CI	1932	80	2015	65,887	0	in capital budget	65,887
Arthur: - Water Distribution	GEORGINA ST	13	150	CI	1932	80	2015	6,890	0	in capital budget	6,890
Arthur: - Water Distribution	GORDON AVE	7	150	PVC	1995	80	2075	3,768	60	108	-
Arthur: - Water Distribution	ISABELLA ST	5	150	CI	1932	80	2015	2,425	0	in capital budget	2,425
Arthur: - Water Distribution	ISABELLA ST	6	150	CI	1932	80	2015	3,224	0	in capital budget	3,224
Arthur: - Water Distribution	ISABELLA ST	2	150	CI	1932	80	2015	954	0	in capital budget	954
Arthur: - Water Distribution	ISABELLA ST	4	150	CI	1932	80	2015	1,924	0	in capital budget	1,924
Arthur: - Water Distribution	ISABELLA ST	6	150	CI	1932	80	2015	2,936	0	in capital budget	2,936
Arthur: - Water Distribution	ISABELLA ST	148	150	CI	1932	80	2015	78,884	0	in capital budget	78,884
Arthur: - Water Distribution	ISABELLA ST	90	150	CI	1932	80	2015	47,933	0	in capital budget	47,933
Arthur: - Water Distribution	ISABELLA ST	5	150	CI	1932	80	2015	2,739	0	in capital budget	2,739
Arthur: - Water Distribution	ISABELLA ST	114	150	CI	1932	80	2015	60,765	0	in capital budget	60,765
Arthur: - Water Distribution	ISABELLA ST	175	150	CI	1932	80	2015	93,288	0	in capital budget	93,288
Arthur: - Water Distribution	ISABELLA ST	4	150	CI	1932	80	2015	2,259	0	in capital budget	2,259
Arthur: - Water Distribution	ISABELLA ST	4	150	CI	1932	80	2015	2,233	0	in capital budget	2,233
Arthur: - Water Distribution	ISABELLA ST	5	150	CI	1932	80	2015	2,638	0	in capital budget	2,638
Arthur: - Water Distribution	ISABELLA ST	11	150	CI	1932	80	2015	5,617	0	in capital budget	5,617
Arthur: - Water Distribution	ISABELLA ST	17	150	CI	1932	80	2015	8,910	0	in capital budget	8,910
Arthur: - Water Distribution	ISABELLA ST	7	150	CI	1932	80	2015	3,847	0	in capital budget	3,847
Arthur: - Water Distribution	ISABELLA ST	56	150	CI	1932	80	2015	29,831	0	in capital budget	29,831
Arthur: - Water Distribution	ISABELLA ST	142	150	CI	1932	80	2015	75,463	0	in capital budget	75,463
Arthur: - Water Distribution	ISABELLA ST	9	150	PVC	1995	80	2075	4,721	60	136	-
Arthur: - Water Distribution	ISABELLA ST	17	150	PVC	1995	80	2075	8,937	60	257	-
Arthur: - Water Distribution	ISABELLA ST	4	150	PVC	1995	80	2075	2,377	60	68	-
Arthur: - Water Distribution	ISABELLA ST	9	150	PVC	1995	80	2075	4,599	60	132	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	ISABELLA ST	4	150	PVC	1995	80	2075	1,924	60	55	-
Arthur: - Water Distribution	ISABELLA ST	12	150	PVC	1995	80	2075	6,634	60	191	-
Arthur: - Water Distribution	JOHN ST	16	150	PVC	1995	80	2075	8,420	60	242	-
Arthur: - Water Distribution	JOHN ST	4	150	PVC	1995	80	2075	1,908	60	55	-
Arthur: - Water Distribution	JOHN ST	55	150	PVC	1995	80	2075	29,330	60	844	-
Arthur: - Water Distribution	JOHN ST	69	150	PVC	1995	80	2075	36,785	60	1,058	-
Arthur: - Water Distribution	JOHN ST	1	150	PVC	1995	80	2075	762	60	22	-
Arthur: - Water Distribution	JOHN ST	1	150	PVC	1995	80	2075	778	60	22	-
Arthur: - Water Distribution	JOHN ST	5	150	PVC	1995	80	2075	2,664	60	77	-
Arthur: - Water Distribution	JOHN ST	13	150	PVC	1995	80	2075	7,018	60	202	-
Arthur: - Water Distribution	JOHN ST	16	150	PVC	1995	80	2075	8,564	60	246	-
Arthur: - Water Distribution	JOHN ST	11	150	PVC	1995	80	2075	5,824	60	168	-
Arthur: - Water Distribution	JOHN ST	6	150	PVC	1995	80	2075	3,075	60	88	-
Arthur: - Water Distribution	JONES BASELINE	65	300	PVC	2003	80	2083	39,841	68	1,077	-
Arthur: - Water Distribution	JONES BASELINE	242	300	PVC	2003	80	2083	148,553	68	4,016	-
Arthur: - Water Distribution	JONES BASELINE	244	300	PVC	2003	80	2083	149,861	68	4,051	-
Arthur: - Water Distribution	JONES BASELINE	57	300	PVC	2003	80	2083	35,040	68	947	-
Arthur: - Water Distribution	JONES BASELINE	253	300	PVC	2003	80	2083	155,092	68	4,192	-
Arthur: - Water Distribution	JONES BASELINE	12	300	PVC	2003	80	2083	7,656	68	207	-
Arthur: - Water Distribution	JONES BASELINE	268	300	PVC	2003	80	2083	164,695	68	4,452	-
Arthur: - Water Distribution	LEONDARD ST	63	150	PVC	1995	80	2075	33,833	60	973	-
Arthur: - Water Distribution	LEONDARD ST	9	150	PVC	1995	80	2075	4,807	60	138	-
Arthur: - Water Distribution	LEONDARD ST	4	150	PVC	1995	80	2075	2,377	60	68	-
Arthur: - Water Distribution	LEONDARD ST	3	150	PVC	1995	80	2075	1,519	60	44	-
Arthur: - Water Distribution	LYNWOOD PL	34	150	PVC	1975	80	2055	18,017	40	659	-
Arthur: - Water Distribution	LYNWOOD PL	22	150	PVC	1975	80	2055	11,580	40	423	-
Arthur: - Water Distribution	LYNWOOD PL	4	150	PVC	1975	80	2055	2,217	40	81	-
Arthur: - Water Distribution	LYNWOOD PL	23	150	PVC	1975	80	2055	12,107	40	443	-
Arthur: - Water Distribution	LYNWOOD PL	34	150	PVC	1975	80	2055	18,321	40	670	-
Arthur: - Water Distribution	LYNWOOD PL	1	150	PVC	1975	80	2055	597	40	22	-
Arthur: - Water Distribution	LYNWOOD PL	55	150	PVC	1975	80	2055	29,527	40	1,079	-
Arthur: - Water Distribution	LYNWOOD PL	68	150	PVC	1975	80	2055	36,322	40	1,328	-
Arthur: - Water Distribution	LYNWOOD PL	1	150	PVC	1975	80	2055	336	40	12	-
Arthur: - Water Distribution	LYNWOOD PL	62	150	PVC	1975	80	2055	33,279	40	1,217	-
Arthur: - Water Distribution	LYNWOOD PL	49	150	PVC	1975	80	2055	25,920	40	948	-
Arthur: - Water Distribution	LYNWOOD PL	27	150	PVC	1975	80	2055	14,218	40	520	-
Arthur: - Water Distribution	LYNWOOD PL	3	150	PVC	1975	80	2055	1,599	40	58	-
Arthur: - Water Distribution	LYNWOOD PL	3	150	PVC	1975	80	2055	1,689	40	62	-
Arthur: - Water Distribution	LYNWOOD PL	87	150	PVC	1975	80	2055	46,553	40	1,702	-
Arthur: - Water Distribution	LYNWOOD PL	0	150	PVC	1975	80	2055	176	40	6	-
Arthur: - Water Distribution	LYNWOOD PL	1	150	PVC	1975	80	2055	416	40	15	-
Arthur: - Water Distribution	LYNWOOD PL	15	150	PVC	1975	80	2055	8,212	40	300	-
Arthur: - Water Distribution	LYNWOOD PL	1	150	PVC	1975	80	2055	517	40	19	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	LYNWOOD PL	11	150	PVC	1975	80	2055	5,846	40	214	-
Arthur: - Water Distribution	McCORD ST	137	150	PVC	1995	80	2075	73,144	60	2,104	-
Arthur: - Water Distribution	McCORD ST	12	150	PVC	1995	80	2075	6,219	60	179	-
Arthur: - Water Distribution	McCORD ST	127	150	PVC	1995	80	2075	67,874	60	1,953	-
Arthur: - Water Distribution	PATRICK ST	33	150	PVC	1995	80	2075	17,473	60	503	-
Arthur: - Water Distribution	PRESTON ST	3	150	PVC	1995	80	2075	1,577	60	45	-
Arthur: - Water Distribution	PRESTON ST	5	150	PVC	1995	80	2075	2,691	60	77	-
Arthur: - Water Distribution	PRESTON ST	140	150	PVC	1995	80	2075	74,599	60	2,146	-
Arthur: - Water Distribution	PRESTON ST	1	150	PVC	1995	80	2075	677	60	19	-
Arthur: - Water Distribution	PRESTON ST	3	150	PVC	1995	80	2075	1,860	60	54	-
Arthur: - Water Distribution	PRESTON ST	4	150	PVC	1995	80	2075	2,371	60	68	-
Arthur: - Water Distribution	PRESTON ST	4	150	PVC	1995	80	2075	2,196	60	63	-
Arthur: - Water Distribution	PRESTON ST	2	150	PVC	1995	80	2075	1,162	60	33	-
Arthur: - Water Distribution	PRESTON ST	9	150	PVC	1995	80	2075	4,641	60	134	-
Arthur: - Water Distribution	PRESTON ST	1	150	PVC	1995	80	2075	501	60	14	-
Arthur: - Water Distribution	PRESTON ST	71	150	PVC	1995	80	2075	37,697	60	1,084	-
Arthur: - Water Distribution	PRESTON ST	11	150	PVC	1995	80	2075	5,595	60	161	-
Arthur: - Water Distribution	PRESTON ST	2	150	PVC	1995	80	2075	1,268	60	36	-
Arthur: - Water Distribution	PRESTON ST	2	150	PVC	1995	80	2075	965	60	28	-
Arthur: - Water Distribution	PRESTON ST	4	150	PVC	1995	80	2075	2,382	60	69	-
Arthur: - Water Distribution	PRESTON ST	3	150	PVC	1995	80	2075	1,583	60	46	-
Arthur: - Water Distribution	PRESTON ST	2	150	PVC	1995	80	2075	847	60	24	-
Arthur: - Water Distribution	PRESTON ST	26	150	PVC	1995	80	2075	13,839	60	398	-
Arthur: - Water Distribution	PRESTON ST	2	150	PVC	1995	80	2075	1,130	60	32	-
Arthur: - Water Distribution	PRESTON ST	13	150	PVC	1995	80	2075	6,714	60	193	-
Arthur: - Water Distribution	PRESTON ST	103	150	PVC	1995	80	2075	54,813	60	1,577	-
Arthur: - Water Distribution	PRESTON ST	198	150	PVC	1995	80	2075	105,757	60	3,042	-
Arthur: - Water Distribution	PRESTON ST	32	150	PVC	1995	80	2075	17,260	60	497	-
Arthur: - Water Distribution	PRESTON ST	6	150	PVC	1995	80	2075	3,176	60	91	-
Arthur: - Water Distribution	PRESTON ST	1	150	PVC	1995	80	2075	581	60	17	-
Arthur: - Water Distribution	PRESTON ST	13	150	PVC	1995	80	2075	6,725	60	193	-
Arthur: - Water Distribution	PRESTON ST	3	150	PVC	1995	80	2075	1,332	60	38	-
Arthur: - Water Distribution	PRESTON ST	186	150	PVC	1995	80	2075	99,160	60	2,853	-
Arthur: - Water Distribution	PRESTON ST	4	150	PVC	1995	80	2075	2,153	60	62	-
Arthur: - Water Distribution	SMITH ST	126	150	AC	1975	50	2025	67,293	10	7,492	-
Arthur: - Water Distribution	SMITH ST	144	150	AC	1975	50	2025	76,747	10	8,544	-
Arthur: - Water Distribution	SMITH ST	20	250	AC	1975	50	2025	11,639	10	1,296	-
Arthur: - Water Distribution	SMITH ST	36	150	CI	1975	80	2055	19,131	40	699	-
Arthur: - Water Distribution	SMITH ST	26	250	PVC	1995	80	2075	15,367	60	442	-
Arthur: - Water Distribution	SMITH ST	118	250	PVC	1995	80	2075	69,822	60	2,009	-
Arthur: - Water Distribution	SMITH ST	31	250	PVC	1995	80	2075	18,593	60	535	-
Arthur: - Water Distribution	SMITH ST	55	250	PVC	1995	80	2075	32,778	60	943	-
Arthur: - Water Distribution	SMITH ST	126	250	PVC	1995	80	2075	74,673	60	2,148	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	SMITH ST	1	250	PVC	1995	80	2075	579	60	17	-
Arthur: - Water Distribution	SMITH ST	11	250	PVC	1995	80	2075	6,351	60	183	-
Arthur: - Water Distribution	SMITH ST	15	250	PVC	1995	80	2075	9,039	60	260	-
Arthur: - Water Distribution	SMITH ST	5	250	PVC	1995	80	2075	2,676	60	77	-
Arthur: - Water Distribution	SMITH ST	1	250	PVC	1995	80	2075	880	60	25	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,022	60	29	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,058	60	30	-
Arthur: - Water Distribution	SMITH ST	9	250	PVC	1995	80	2075	5,252	60	151	-
Arthur: - Water Distribution	SMITH ST	92	250	PVC	1995	80	2075	54,059	60	1,555	-
Arthur: - Water Distribution	SMITH ST	70	250	PVC	1995	80	2075	41,109	60	1,183	-
Arthur: - Water Distribution	SMITH ST	79	250	PVC	1995	80	2075	46,875	60	1,349	-
Arthur: - Water Distribution	SMITH ST	11	250	PVC	1995	80	2075	6,576	60	189	-
Arthur: - Water Distribution	SMITH ST	14	250	PVC	1995	80	2075	8,094	60	233	-
Arthur: - Water Distribution	SMITH ST	1	250	PVC	1995	80	2075	603	60	17	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,188	60	34	-
Arthur: - Water Distribution	SMITH ST	46	250	PVC	1995	80	2075	27,343	60	787	-
Arthur: - Water Distribution	SMITH ST	1	250	PVC	1995	80	2075	366	60	11	-
Arthur: - Water Distribution	SMITH ST	53	250	PVC	1995	80	2075	31,236	60	899	-
Arthur: - Water Distribution	SMITH ST	13	250	PVC	1995	80	2075	7,929	60	228	-
Arthur: - Water Distribution	SMITH ST	6	250	PVC	1995	80	2075	3,249	60	93	-
Arthur: - Water Distribution	SMITH ST	1	250	PVC	1995	80	2075	301	60	9	-
Arthur: - Water Distribution	SMITH ST	1	250	PVC	1995	80	2075	845	60	24	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,353	60	39	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,040	60	30	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,140	60	33	-
Arthur: - Water Distribution	SMITH ST	97	250	PVC	1995	80	2075	57,545	60	1,655	-
Arthur: - Water Distribution	SMITH ST	3	250	PVC	1995	80	2075	1,613	60	46	-
Arthur: - Water Distribution	SMITH ST	127	250	PVC	1995	80	2075	74,791	60	2,152	-
Arthur: - Water Distribution	SMITH ST	32	250	PVC	1995	80	2075	18,746	60	539	-
Arthur: - Water Distribution	SMITH ST	14	250	PVC	1995	80	2075	8,395	60	242	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,442	60	41	-
Arthur: - Water Distribution	SMITH ST	91	250	PVC	1995	80	2075	53,817	60	1,548	-
Arthur: - Water Distribution	SMITH ST	3	250	PVC	1995	80	2075	1,672	60	48	-
Arthur: - Water Distribution	SMITH ST	40	250	PVC	1995	80	2075	23,438	60	674	-
Arthur: - Water Distribution	SMITH ST	72	250	PVC	1995	80	2075	42,409	60	1,220	-
Arthur: - Water Distribution	SMITH ST	63	250	PVC	1995	80	2075	37,505	60	1,079	-
Arthur: - Water Distribution	SMITH ST	98	250	PVC	1995	80	2075	57,622	60	1,658	-
Arthur: - Water Distribution	SMITH ST	0	250	PVC	1995	80	2075	189	60	5	-
Arthur: - Water Distribution	SMITH ST	6	250	PVC	1995	80	2075	3,545	60	102	-
Arthur: - Water Distribution	SMITH ST	77	250	PVC	1995	80	2075	45,499	60	1,309	-
Arthur: - Water Distribution	SMITH ST	14	250	PVC	1995	80	2075	8,395	60	242	-
Arthur: - Water Distribution	SMITH ST	4	250	PVC	1995	80	2075	2,080	60	60	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,152	60	33	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	SMITH ST	1	250	PVC	1995	80	2075	804	60	23	-
Arthur: - Water Distribution	SMITH ST	1	250	PVC	1995	80	2075	390	60	11	-
Arthur: - Water Distribution	SMITH ST	6	250	PVC	1995	80	2075	3,740	60	108	-
Arthur: - Water Distribution	SMITH ST	3	250	PVC	1995	80	2075	1,808	60	52	-
Arthur: - Water Distribution	SMITH ST	6	250	PVC	1995	80	2075	3,592	60	103	-
Arthur: - Water Distribution	SMITH ST	112	250	PVC	1995	80	2075	66,372	60	1,909	-
Arthur: - Water Distribution	SMITH ST	29	250	PVC	1995	80	2075	17,063	60	491	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,418	60	41	-
Arthur: - Water Distribution	SMITH ST	1	250	PVC	1995	80	2075	573	60	16	-
Arthur: - Water Distribution	SMITH ST	20	250	PVC	1995	80	2075	12,053	60	347	-
Arthur: - Water Distribution	SMITH ST	8	250	PVC	1995	80	2075	4,744	60	136	-
Arthur: - Water Distribution	SMITH ST	14	250	PVC	1995	80	2075	7,994	60	230	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,453	60	42	-
Arthur: - Water Distribution	SMITH ST	1	250	PVC	1995	80	2075	467	60	13	-
Arthur: - Water Distribution	SMITH ST	28	250	PVC	1995	80	2075	16,484	60	474	-
Arthur: - Water Distribution	SMITH ST	0	250	PVC	1995	80	2075	230	60	7	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,052	60	30	-
Arthur: - Water Distribution	SMITH ST	2	250	PVC	1995	80	2075	1,004	60	29	-
Arthur: - Water Distribution	SMITH ST	116	250	PVC	1995	80	2075	68,617	60	1,974	-
Arthur: - Water Distribution	SMITH ST	18	250	PVC	1995	80	2075	10,836	60	312	-
Arthur: - Water Distribution	TUCKER ST	2	150	PVC	2013	80	2093	1,252	78	32	-
Arthur: - Water Distribution	TUCKER ST	3	150	PVC	2013	80	2093	1,684	78	43	-
Arthur: - Water Distribution	TUCKER ST	129	150	PVC	2013	80	2093	68,956	78	1,753	-
Arthur: - Water Distribution	TUCKER ST	7	150	PVC	2013	80	2093	3,672	78	93	-
Arthur: - Water Distribution	TUCKER ST	14	150	PVC	2013	80	2093	7,349	78	187	-
Arthur: - Water Distribution	TUCKER ST	62	150	PVC	2013	80	2093	33,284	78	846	-
Arthur: - Water Distribution	TUCKER ST	119	150	PVC	2013	80	2093	63,467	78	1,614	-
Arthur: - Water Distribution	TUCKER ST	2	150	PVC	2013	80	2093	1,060	78	27	-
Arthur: - Water Distribution	TUCKER ST	3	150	PVC	2013	80	2093	1,481	78	38	-
Arthur: - Water Distribution	TUCKER ST	28	150	PVC	2013	80	2093	14,830	78	377	-
Arthur: - Water Distribution	TUCKER ST	7	150	PVC	2013	80	2093	3,682	78	94	-
Arthur: - Water Distribution	TUCKER ST	2	150	PVC	2013	80	2093	938	78	24	-
Arthur: - Water Distribution	TUCKER ST	204	150	PVC	1995	80	2075	108,896	60	3,133	-
Arthur: - Water Distribution	TUCKER ST	1	150	PVC	1995	80	2075	448	60	13	-
Arthur: - Water Distribution	TUCKER ST	11	150	PVC	1995	80	2075	5,995	60	172	-
Arthur: - Water Distribution	TUCKER ST	40	150	PVC	1995	80	2075	21,209	60	610	-
Arthur: - Water Distribution	TUCKER ST	13	150	PVC	1995	80	2075	7,167	60	206	-
Arthur: - Water Distribution	TUCKER ST	1	150	PVC	1995	80	2075	298	60	9	-
Arthur: - Water Distribution	TUCKER ST	69	150	PVC	1995	80	2075	36,610	60	1,053	-
Arthur: - Water Distribution	TUCKER ST	11	150	PVC	1995	80	2075	6,107	60	176	-
Arthur: - Water Distribution	TUCKER ST	15	150	PVC	1995	80	2075	8,073	60	232	-
Arthur: - Water Distribution	TUCKER ST	17	150	PVC	1995	80	2075	8,873	60	255	-
Arthur: - Water Distribution	TUCKER ST	123	150	PVC	1995	80	2075	65,572	60	1,886	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	TUCKER ST	91	150	PVC	1995	80	2075	48,690	60	1,401	-
Arthur: - Water Distribution	TUCKER ST	13	150	PVC	1995	80	2075	7,082	60	204	-
Arthur: - Water Distribution	TUCKER ST	12	150	PVC	1995	80	2075	6,267	60	180	-
Arthur: - Water Distribution	TUCKER ST	2	150	PVC	1995	80	2075	1,215	60	35	-
Arthur: - Water Distribution	TUCKER ST	5	150	PVC	1995	80	2075	2,451	60	71	-
Arthur: - Water Distribution	TUCKER ST	36	150	PVC	1995	80	2075	19,259	60	554	-
Arthur: - Water Distribution	TUCKER ST	1	150	PVC	1995	80	2075	687	60	20	-
Arthur: - Water Distribution	TUCKER ST	2	150	PVC	1995	80	2075	805	60	23	-
Arthur: - Water Distribution	TUCKER ST	5	150	PVC	1995	80	2075	2,883	60	83	-
Arthur: - Water Distribution	TUCKER ST	80	150	PVC	1995	80	2075	42,471	60	1,222	-
Arthur: - Water Distribution	TUCKER ST	13	150	PVC	1995	80	2075	6,661	60	192	-
Arthur: - Water Distribution	WALTON ST	85	150	CI	1932	80	2015	45,535	0	in capital budget	45,535
Arthur: - Water Distribution	WALTON ST	87	150	CI	1932	80	2015	46,532	0	in capital budget	46,532
Arthur: - Water Distribution	WALTON ST	4	150	CI	1932	80	2015	1,950	0	in capital budget	1,950
Arthur: - Water Distribution	WALTON ST	119	150	PVC	1995	80	2075	63,190	60	1,818	-
Arthur: - Water Distribution	WALTON ST	128	150	PVC	1995	80	2075	68,295	60	1,965	-
Arthur: - Water Distribution	WALTON ST	5	150	PVC	1995	80	2075	2,654	60	76	-
Arthur: - Water Distribution	WALTON ST	2	150	PVC	1995	80	2075	1,012	60	29	-
Arthur: - Water Distribution	WALTON ST	8	150	PVC	1995	80	2075	4,519	60	130	-
Arthur: - Water Distribution	WELLINGTON RD 109	280	200	PVC	2007	80	2087	155,697	72	4,099	-
Arthur: - Water Distribution	WELLS ST	1	150	PVC	1995	80	2075	309	60	9	-
Arthur: - Water Distribution	WELLS ST	4	150	PVC	1995	80	2075	2,046	60	59	-
Arthur: - Water Distribution	WELLS ST	27	150	PVC	1995	80	2075	14,489	60	417	-
Arthur: - Water Distribution	WELLS ST	15	150	PVC	1995	80	2075	7,865	60	226	-
Arthur: - Water Distribution	WELLS ST	1	150	PVC	1995	80	2075	320	60	9	-
Arthur: - Water Distribution	WELLS ST	335	150	PVC	1995	80	2075	178,561	60	5,137	-
Arthur: - Water Distribution	WELLS ST	39	150	PVC	1995	80	2075	20,911	60	602	-
Arthur: - Water Distribution	WELLS ST	43	150	PVC	1995	80	2075	23,053	60	663	-
Arthur: - Water Distribution	WELLS ST	10	150	PVC	1995	80	2075	5,350	60	154	-
Arthur: - Water Distribution	WELLS ST	1	150	PVC	1995	80	2075	773	60	22	-
Arthur: - Water Distribution	WELLS ST	6	150	PVC	1995	80	2075	3,091	60	89	-
Arthur: - Water Distribution	WELLS ST	4	150	PVC	1995	80	2075	1,902	60	55	-
Arthur: - Water Distribution	WELLS ST	3	150	PVC	1995	80	2075	1,657	60	48	-
Arthur: - Water Distribution	WELLS ST	82	150	PVC	1995	80	2075	43,676	60	1,256	-
Arthur: - Water Distribution	WELLS ST	3	150	PVC	1995	80	2075	1,833	60	53	-
Arthur: - Water Distribution	WELLS ST	99	150	PVC	1995	80	2075	52,761	60	1,518	-
Arthur: - Water Distribution	WELLS ST	1	150	PVC	1995	80	2075	719	60	21	-
Arthur: - Water Distribution	WELLS ST	4	150	PVC	1995	80	2075	1,977	60	57	-
Arthur: - Water Distribution	WELLS ST	100	150	PVC	1995	80	2075	53,129	60	1,528	-
Arthur: - Water Distribution	WELLS ST	1	150	PVC	1995	80	2075	655	60	19	-
Arthur: - Water Distribution	WELLS ST	3	150	PVC	1995	80	2075	1,524	60	44	-
Arthur: - Water Distribution	WELLS ST	85	150	PVC	1995	80	2075	45,216	60	1,301	-
Arthur: - Water Distribution	WELLS ST	1	150	PVC	1995	80	2075	655	60	19	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur: - Water Distribution	WELLS ST	1	150	PVC	1995	80	2075	607	60	17	-
Arthur: - Water Distribution	WELLS ST	3	150	PVC	1995	80	2075	1,615	60	46	-
Arthur: - Water Distribution	WELLS ST	1	150	PVC	1995	80	2075	549	60	16	-
Arthur: - Water Distribution	WELLS ST	57	150	PVC	1995	80	2075	30,503	60	877	-
Arthur: - Water Distribution	WELLS ST	59	150	PVC	1995	80	2075	31,329	60	901	-
Arthur: - Water Distribution	WELLS ST	8	150	PVC	1995	80	2075	4,295	60	124	-
Arthur: - Water Distribution	WELLS ST	4	150	PVC	1995	80	2075	2,158	60	62	-
Arthur: - Water Distribution	WELLS ST	2	150	PVC	1995	80	2075	943	60	27	-
Arthur: - Water Distribution	WELLS ST	4	150	PVC	1995	80	2075	2,211	60	64	-
Arthur: - Water Distribution	WELLS ST	148	150	PVC	1995	80	2075	78,719	60	2,265	-
Arthur: - Water Distribution	WELLS ST	7	150	PVC	1995	80	2075	3,464	60	100	-
Arthur: - Water Distribution	WELLS ST	9	150	PVC	1995	80	2075	4,705	60	135	-
Arthur: - Water Distribution	WELLS ST	9	150	PVC	1995	80	2075	4,689	60	135	-
Arthur: - Water Distribution	WELLS ST	7	150	PVC	1995	80	2075	3,981	60	115	-
Arthur: - Water Distribution	WELLS ST	15	150	PVC	1995	80	2075	8,159	60	235	-
Arthur: - Water Distribution	WELLS ST	9	150	PVC	1995	80	2075	4,546	60	131	-
Arthur: - Water Distribution	WELLS ST	37	150	PVC	1995	80	2075	19,568	60	563	-
Arthur: - Water Distribution	WELLS ST	5	150	PVC	1995	80	2075	2,467	60	71	-
Arthur: - Water Distribution	WELLS ST	7	150	PVC	1995	80	2075	3,480	60	100	-
Arthur: - Water Distribution	WELLS ST	66	150	PVC	1995	80	2075	34,947	60	1,005	-
Arthur: - Water Distribution	WELLS ST	11	150	PVC	1995	80	2075	6,102	60	176	-
Arthur: - Water Distribution	WELLS ST	2	150	PVC	1995	80	2075	1,284	60	37	-
Arthur: - Water Distribution	WELLS ST	5	150	PVC	1995	80	2075	2,462	60	71	-
Arthur: - Water Distribution	WELLS ST	29	150	PVC	1995	80	2075	15,715	60	452	-
Arthur: - Water Distribution	WELLS ST	3	150	PVC	1995	80	2075	1,785	60	51	-
Arthur: - Water Distribution	WELLS ST	2	150	PVC	1995	80	2075	1,220	60	35	-
Arthur: - Water Distribution	WELLS ST	12	150	PVC	1995	80	2075	6,581	60	189	-
Arthur: - Water Distribution	WELLS ST	3	150	PVC	1995	80	2075	1,599	60	46	-
Arthur: - Water Distribution	WELLS ST	5	150	PVC	1995	80	2075	2,814	60	81	-
Arthur: - Water Distribution	WELLS ST	6	150	PVC	1995	80	2075	3,421	60	98	-
Arthur: - Watermain	Adelaide Street	191	150	PVC	2006	80	2086	101,782	71	2,697	-
Arthur: - Watermain	Clarke St.	152	150	PVC	2006	80	2086	80,999	71	2,146	-
Arthur: - Watermain	County # 109 & Hwy. 6 (to Charles St)	389	200	PVC	2007	80	2087	216,307	72	5,695	-
Arthur: - Watermain	CPR	335	150	PVC	2005	80	2085	178,518	70	4,761	-
Arthur: - Watermain	Domeville St (Conestoga to Clarke)	253	150	PVC	2006	80	2086	134,821	71	3,572	-
Arthur: - Watermain	Eliza Street	123	150	PVC	2005	80	2085	65,279	70	1,741	-
Arthur: - Watermain	Eliza Street	6	300	PVC	2005	80	2085	3,684	70	98	-
Arthur: - Watermain	Frederick St (Edward to Francis)	122	150	PVC	2006	80	2086	65,013	71	1,722	-
Arthur: - Watermain	Jones Baseline	1,309	300	PVC	2006	80	2086	803,703	71	21,294	-
Arthur: - Watermain	Jones Baseline	12	100	PVC	2006	80	2086	6,395	71	169	-
Arthur: - Watermain	Leonard Street	150	150	PVC	2006	80	2086	79,934	71	2,118	-
Arthur: - Watermain	Tucker St. (Adelaide to Domville)	110	150	PVC	2007	80	2087	58,618	72	1,543	-
Arthur: - Watermain	Tucker St. (Adelaide to Domville)	213	200	PVC	2005	80	2085	118,441	70	3,159	-

Appendix A-2
Township of Wellington-North
Arthur Water Distribution

Location	*Street*	*Length (m)*	*Diameter (mm)*	*Material*	*Year Installed*	*Estimated Life*	*Replacement Year*	*Total Main Replacement Costs*	*Years until Replacement*	*Annual Lifecycle Contribution*	*Amount to be included in 6 year Forecast*
Total		**40,214**						**22,011,635**		**1,183,705**	**2,823,043**

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest - Watermains	Birmingham Street	90	250	PVC	2004	80	2084	53,173	69	1,428	-
Mount Forest - Watermains	Durham St. (Main St. to Foster St.)	122	250	PVC	2004	80	2084	71,784	69	1,927	-
Mount Forest - Watermains	Durham Street (Normanby St. to Weber St.)	20	150	PVC	2007	80	2087	10,658	72	281	-
Mount Forest - Watermains	Durham Street (Webet St. to Perth St.)	226	250	PVC	2006	80	2086	133,287	71	3,531	-
Mount Forest - Watermains	Princess Street (West of Cork St.)	260	250	PVC	2007	80	2087	153,611	72	4,044	-
Mount Forest - Watermains	Princess Street (West of Cork St.)	13	200	PVC	2007	80	2087	7,229	72	190	-
Mount Forest - Watermains	Princess Street (West of Cork St.)	25	150	PVC	2007	80	2087	13,322	72	351	-
Mount Forest - Watermains	River Crossing (STP to South Water St.)	293	300	PVC	2005	80	2085	179,590	70	4,789	-
Mount Forest - Watermains	Sludge Storage Access Road	556	150	PVC	2006	80	2086	296,287	71	7,850	-
Mount Forest: - Water Distribution	ALBERT ST	76	250	CI	1975	80	2055	44,772	40	1,637	-
Mount Forest: - Water Distribution	ALBERT ST	5	250	CI	1975	80	2055	2,771	40	101	-
Mount Forest: - Water Distribution	ALBERT ST	15	250	DI	1985	50	2035	8,921	20	546	-
Mount Forest: - Water Distribution	ALBERT ST	60	250	DI	1985	50	2035	35,626	20	2,179	-
Mount Forest: - Water Distribution	ALBERT ST	4	250	DI	1985	50	2035	2,582	20	158	-
Mount Forest: - Water Distribution	ALBERT ST	115	250	DI	1985	50	2035	68,068	20	4,163	-
Mount Forest: - Water Distribution	ALBERT ST	17	250	DI	1985	50	2035	10,280	20	629	-
Mount Forest: - Water Distribution	ALBERT ST	71	250	DI	1985	50	2035	41,871	20	2,561	-
Mount Forest: - Water Distribution	ALBERT ST	70	250	DI	1985	50	2035	41,469	20	2,536	-
Mount Forest: - Water Distribution	ALBERT ST	15	250	DI	1985	50	2035	8,667	20	530	-
Mount Forest: - Water Distribution	ALBERT ST	12	250	DI	1985	50	2035	7,149	20	437	-
Mount Forest: - Water Distribution	ALBERT ST	35	250	DI	1985	50	2035	20,702	20	1,266	-
Mount Forest: - Water Distribution	ALBERT ST	4	250	DI	1985	50	2035	2,446	20	150	-
Mount Forest: - Water Distribution	ALBERT ST	98	250	DI	1985	50	2035	57,663	20	3,527	-
Mount Forest: - Water Distribution	ALBERT ST	15	250	DI	1985	50	2035	9,045	20	553	-
Mount Forest: - Water Distribution	ARTHUR ST	15	250	DI	1985	50	2035	8,915	20	545	-
Mount Forest: - Water Distribution	ARTHUR ST	8	250	DI	1985	50	2035	4,756	20	291	-
Mount Forest: - Water Distribution	ARTHUR ST	39	250	DI	1985	50	2035	23,000	20	1,407	-
Mount Forest: - Water Distribution	ARTHUR ST	3	250	DI	1985	50	2035	1,690	20	103	-
Mount Forest: - Water Distribution	ARTHUR ST	30	250	DI	1985	50	2035	17,996	20	1,101	-
Mount Forest: - Water Distribution	ARTHUR ST	7	250	DI	1985	50	2035	3,864	20	236	-
Mount Forest: - Water Distribution	ARTHUR ST	67	250	DI	1985	50	2035	39,413	20	2,410	-
Mount Forest: - Water Distribution	ARTHUR ST	83	250	DI	1985	50	2035	49,297	20	3,015	-
Mount Forest: - Water Distribution	ARTHUR ST	67	250	PVC	1995	80	2075	39,738	60	1,143	-
Mount Forest: - Water Distribution	ARTHUR ST	85	250	PVC	1995	80	2075	50,426	60	1,451	-
Mount Forest: - Water Distribution	ARTHUR ST	3	250	PVC	1995	80	2075	2,056	60	59	-
Mount Forest: - Water Distribution	ARTHUR ST	60	250	PVC	1995	80	2075	35,425	60	1,019	-
Mount Forest: - Water Distribution	ARTHUR ST	3	250	PVC	1995	80	2075	2,003	60	58	-
Mount Forest: - Water Distribution	ARTHUR ST	4	250	PVC	1995	80	2075	2,357	60	68	-
Mount Forest: - Water Distribution	ARTHUR ST	14	250	PVC	1995	80	2075	8,230	60	237	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	146	150	CI	1975	80	2055	78,047	40	2,853	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	14	150	CI	1975	80	2055	7,370	40	269	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	4	150	CI	1975	80	2055	2,110	40	77	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	14	150	CI	1975	80	2055	7,231	40	264	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	120	150	CI	1975	80	2055	63,760	40	2,331	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	99	150	CI	1975	80	2055	52,863	40	1,932	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	8	150	CI	1975	80	2055	4,274	40	156	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	BIRMINGHAM ST	51	150	CI	1975	80	2055	27,412	40	1,002	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	140	150	CI	1975	80	2055	74,674	40	2,730	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	5	150	CI	1975	80	2055	2,702	40	99	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	6	150	CI	1975	80	2055	3,016	40	110	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	1	150	CI	1975	80	2055	304	40	11	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	1	150	CI	1975	80	2055	336	40	12	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	1	150	CI	1975	80	2055	336	40	12	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	174	150	CI	1975	80	2055	92,547	40	3,383	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	6	150	CI	1975	80	2055	3,256	40	119	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	6	150	CI	1975	80	2055	3,048	40	111	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	150	150	CI	1975	80	2055	79,886	40	2,920	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	4	150	CI	1975	80	2055	2,100	40	77	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	1	150	CI	1975	80	2055	480	40	18	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	3	150	CI	1975	80	2055	1,636	40	60	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	8	150	CI	1975	80	2055	4,300	40	157	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	43	150	PVC	1995	80	2075	22,882	60	658	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	138	150	PVC	1995	80	2075	73,320	60	2,109	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	144	150	PVC	1995	80	2075	76,880	60	2,212	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	58	150	PVC	1995	80	2075	31,083	60	894	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	21	200	PVC	1995	80	2075	11,805	60	340	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	13	200	PVC	1995	80	2075	7,290	60	210	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	10	200	PVC	1995	80	2075	5,561	60	160	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	21	200	PVC	1995	80	2075	11,833	60	340	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	2	200	PVC	1995	80	2075	1,268	60	36	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	9	200	PVC	1995	80	2075	4,732	60	136	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	42	200	PVC	1995	80	2075	23,343	60	672	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	41	200	PVC	1995	80	2075	22,971	60	661	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	6	250	PVC	1995	80	2075	3,799	60	109	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	14	250	PVC	1995	80	2075	8,017	60	231	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	12	250	PVC	1995	80	2075	7,379	60	212	-
Mount Forest: - Water Distribution	BIRMINGHAM ST	7	250	PVC	1995	80	2075	4,236	60	122	-
Mount Forest: - Water Distribution	BYELAND DR	96	150	CI	1975	80	2055	51,259	40	1,874	-
Mount Forest: - Water Distribution	BYELAND DR	71	150	CI	1975	80	2055	37,686	40	1,378	-
Mount Forest: - Water Distribution	BYELAND DR	11	150	CI	1975	80	2055	5,777	40	211	-
Mount Forest: - Water Distribution	BYELAND DR	80	150	CI	1975	80	2055	42,397	40	1,550	-
Mount Forest: - Water Distribution	BYELAND DR	45	150	CI	1975	80	2055	24,012	40	878	-
Mount Forest: - Water Distribution	BYELAND DR	21	150	CI	1975	80	2055	11,164	40	408	-
Mount Forest: - Water Distribution	BYELAND DR	82	150	CI	1975	80	2055	43,510	40	1,591	-
Mount Forest: - Water Distribution	BYELAND DR	10	150	DI	1985	50	2035	5,340	20	327	-
Mount Forest: - Water Distribution	BYELAND DR	82	150	DI	1985	50	2035	43,809	20	2,679	-
Mount Forest: - Water Distribution	BYELAND DR	2	150	PVC	1995	80	2075	869	60	25	-
Mount Forest: - Water Distribution	BYELAND DR	6	150	PVC	1995	80	2075	2,931	60	84	-
Mount Forest: - Water Distribution	BYELAND DR	2	150	PVC	1995	80	2075	997	60	29	-
Mount Forest: - Water Distribution	CHERYL LYNN ST	14	150	PVC	1995	80	2075	7,333	60	211	-
Mount Forest: - Water Distribution	CHERYL LYNN ST	82	150	PVC	1995	80	2075	43,670	60	1,256	-
Mount Forest: - Water Distribution	CHERYL LYNN ST	10	150	PVC	1995	80	2075	5,137	60	148	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	CHERYL LYNN ST	185	150	PVC	1995	80	2075	98,382	60	2,830	-
Mount Forest: - Water Distribution	CHURCH CRES	165	150	DI	1985	50	2035	88,060	20	5,385	-
Mount Forest: - Water Distribution	CHURCH CRES	4	150	DI	1985	50	2035	2,201	20	135	-
Mount Forest: - Water Distribution	CHURCH CRES	4	150	DI	1985	50	2035	2,201	20	135	-
Mount Forest: - Water Distribution	CHURCH CRES	123	150	DI	1985	50	2035	65,487	20	4,005	-
Mount Forest: - Water Distribution	CHURCH CRES	2	150	DI	1985	50	2035	1,295	20	79	-
Mount Forest: - Water Distribution	CHURCH CRES	2	150	DI	1985	50	2035	858	20	52	-
Mount Forest: - Water Distribution	CHURCH CRES	83	150	DI	1985	50	2035	44,400	20	2,715	-
Mount Forest: - Water Distribution	CHURCH CRES	52	150	DI	1985	50	2035	27,481	20	1,681	-
Mount Forest: - Water Distribution	CHURCH CRES	66	150	DI	1985	50	2035	35,059	20	2,144	-
Mount Forest: - Water Distribution	CHURCH CRES	7	150	DI	1985	50	2035	3,661	20	224	-
Mount Forest: - Water Distribution	CHURCH CRES	3	150	PVC	1995	80	2075	1,556	60	45	-
Mount Forest: - Water Distribution	CHURCH CRES	6	150	PVC	1995	80	2075	3,197	60	92	-
Mount Forest: - Water Distribution	CHURCH ST	15	150	DI	1985	50	2035	8,116	20	496	-
Mount Forest: - Water Distribution	CHURCH ST	5	150	DI	1985	50	2035	2,409	20	147	-
Mount Forest: - Water Distribution	CHURCH ST	115	150	DI	1985	50	2035	61,277	20	3,748	-
Mount Forest: - Water Distribution	CHURCH ST	16	150	DI	1985	50	2035	8,436	20	516	-
Mount Forest: - Water Distribution	CHURCH ST	78	150	PVC	1995	80	2075	41,576	60	1,196	-
Mount Forest: - Water Distribution	CHURCH ST	5	150	PVC	1995	80	2075	2,606	60	75	-
Mount Forest: - Water Distribution	CHURCH ST	31	150	PVC	1995	80	2075	16,509	60	475	-
Mount Forest: - Water Distribution	CHURCH ST	111	150	PVC	1995	80	2075	58,996	60	1,697	-
Mount Forest: - Water Distribution	CHURCH ST	15	150	PVC	1995	80	2075	7,993	60	230	-
Mount Forest: - Water Distribution	CHURCH ST	5	150	PVC	1995	80	2075	2,659	60	76	-
Mount Forest: - Water Distribution	CHURCH ST	50	150	PVC	1995	80	2075	26,565	60	764	-
Mount Forest: - Water Distribution	CHURCH ST	7	150	PVC	1995	80	2075	3,773	60	109	-
Mount Forest: - Water Distribution	CHURCH ST	85	150	PVC	1995	80	2075	45,551	60	1,310	-
Mount Forest: - Water Distribution	CHURCH ST	84	150	PVC	1995	80	2075	44,539	60	1,281	-
Mount Forest: - Water Distribution	CHURCH ST	14	150	PVC	1995	80	2075	7,237	60	208	-
Mount Forest: - Water Distribution	CHURCH ST	7	150	PVC	1995	80	2075	3,464	60	100	-
Mount Forest: - Water Distribution	COLCLEUGH AVE	16	150	PVC	1995	80	2075	8,404	60	242	-
Mount Forest: - Water Distribution	COLCLEUGH AVE	6	150	PVC	1995	80	2075	3,059	60	88	-
Mount Forest: - Water Distribution	COLCLEUGH AVE	95	150	PVC	1995	80	2075	50,529	60	1,454	-
Mount Forest: - Water Distribution	COLCLEUGH AVE	79	150	PVC	1995	80	2075	41,885	60	1,205	-
Mount Forest: - Water Distribution	CORK ST	18	150	DI	1985	50	2035	9,342	20	571	-
Mount Forest: - Water Distribution	CORK ST	178	150	PVC	1995	80	2075	94,711	60	2,725	-
Mount Forest: - Water Distribution	CORK ST	5	150	PVC	1995	80	2075	2,707	60	78	-
Mount Forest: - Water Distribution	CORK ST	24	150	PVC	1995	80	2075	12,789	60	368	-
Mount Forest: - Water Distribution	CORK ST	240	150	PVC	1995	80	2075	127,979	60	3,682	-
Mount Forest: - Water Distribution	CORK ST	16	150	PVC	1995	80	2075	8,276	60	238	-
Mount Forest: - Water Distribution	CORK ST	5	150	PVC	1995	80	2075	2,670	60	77	-
Mount Forest: - Water Distribution	CORK ST	155	150	PVC	1995	80	2075	82,822	60	2,383	-
Mount Forest: - Water Distribution	CORK ST	5	150	PVC	1995	80	2075	2,824	60	81	-
Mount Forest: - Water Distribution	CORK ST	17	150	PVC	1995	80	2075	8,825	60	254	-
Mount Forest: - Water Distribution	DUBLIN ST	15	100	CI	1975	80	2055	7,759	40	284	-
Mount Forest: - Water Distribution	DUBLIN ST	15	100	CI	1975	80	2055	7,759	40	284	-
Mount Forest: - Water Distribution	DUBLIN ST	60	50	COPPER	1980	80	2060	32,213	45	1,092	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	DUBLIN ST	16	100	DI	1985	50	2035	8,521	20	521	-
Mount Forest: - Water Distribution	DUBLIN ST	6	100	DI	1985	50	2035	3,267	20	200	-
Mount Forest: - Water Distribution	DUBLIN ST	3	100	DI	1985	50	2035	1,417	20	87	-
Mount Forest: - Water Distribution	DUBLIN ST	2	100	DI	1985	50	2035	1,076	20	66	-
Mount Forest: - Water Distribution	DUBLIN ST	39	100	DI	1985	50	2035	20,639	20	1,262	-
Mount Forest: - Water Distribution	DUBLIN ST	19	100	DI	1985	50	2035	10,050	20	615	-
Mount Forest: - Water Distribution	DUBLIN ST	13	100	DI	1985	50	2035	6,661	20	407	-
Mount Forest: - Water Distribution	DUBLIN ST	10	100	DI	1985	50	2035	5,062	20	310	-
Mount Forest: - Water Distribution	DUBLIN ST	15	100	DI	1985	50	2035	8,009	20	490	-
Mount Forest: - Water Distribution	DUBLIN ST	30	100	DI	1985	50	2035	16,019	20	980	-
Mount Forest: - Water Distribution	DUBLIN ST	58	100	DI	1985	50	2035	30,801	20	1,884	-
Mount Forest: - Water Distribution	DUBLIN ST	14	100	DI	1985	50	2035	7,476	20	457	-
Mount Forest: - Water Distribution	DUBLIN ST	18	100	DI	1985	50	2035	9,576	20	586	-
Mount Forest: - Water Distribution	DUBLIN ST	47	100	DI	1985	50	2035	25,030	20	1,531	-
Mount Forest: - Water Distribution	DUBLIN ST	77	100	DI	1985	50	2035	41,107	20	2,514	-
Mount Forest: - Water Distribution	DUBLIN ST	11	100	DI	1985	50	2035	6,107	20	373	-
Mount Forest: - Water Distribution	DUBLIN ST	3	100	DI	1985	50	2035	1,449	20	89	-
Mount Forest: - Water Distribution	DUBLIN ST	69	100	DI	1985	50	2035	36,556	20	2,236	-
Mount Forest: - Water Distribution	DUBLIN ST	150	100	DI	1985	50	2035	79,822	20	4,882	-
Mount Forest: - Water Distribution	DUBLIN ST	1	150	PVC	1995	80	2075	293	60	8	-
Mount Forest: - Water Distribution	DUBLIN ST	1	150	PVC	1995	80	2075	288	60	8	-
Mount Forest: - Water Distribution	DURHAM ST	11	150	CI	1975	80	2055	5,611	40	205	-
Mount Forest: - Water Distribution	DURHAM ST	0	150	CI	1975	80	2055	202	40	7	-
Mount Forest: - Water Distribution	DURHAM ST	1	150	CI	1975	80	2055	522	40	19	-
Mount Forest: - Water Distribution	DURHAM ST	20	150	CI	1975	80	2055	10,796	40	395	-
Mount Forest: - Water Distribution	DURHAM ST	194	150	CI	1975	80	2055	103,541	40	3,785	-
Mount Forest: - Water Distribution	DURHAM ST	148	150	CI	1975	80	2055	78,964	40	2,887	-
Mount Forest: - Water Distribution	DURHAM ST	4	150	CI	1975	80	2055	2,302	40	84	-
Mount Forest: - Water Distribution	DURHAM ST	15	150	CI	1975	80	2055	8,116	40	297	-
Mount Forest: - Water Distribution	DURHAM ST	74	150	CI	1975	80	2055	39,221	40	1,434	-
Mount Forest: - Water Distribution	DURHAM ST	58	150	CI	1975	80	2055	30,689	40	1,122	-
Mount Forest: - Water Distribution	DURHAM ST	29	150	CI	1975	80	2055	15,491	40	566	-
Mount Forest: - Water Distribution	DURHAM ST	3	150	CI	1975	80	2055	1,732	40	63	-
Mount Forest: - Water Distribution	DURHAM ST	130	150	CI	1975	80	2055	69,441	40	2,538	-
Mount Forest: - Water Distribution	DURHAM ST	89	150	CI	1975	80	2055	47,544	40	1,738	-
Mount Forest: - Water Distribution	DURHAM ST	5	150	CI	1975	80	2055	2,846	40	104	-
Mount Forest: - Water Distribution	DURHAM ST	3	150	DI	1985	50	2035	1,572	20	96	-
Mount Forest: - Water Distribution	DURHAM ST	4	150	DI	1985	50	2035	2,243	20	137	-
Mount Forest: - Water Distribution	DURHAM ST	1	150	DI	1985	50	2035	767	20	47	-
Mount Forest: - Water Distribution	DURHAM ST	40	150	DI	1985	50	2035	21,262	20	1,300	-
Mount Forest: - Water Distribution	DURHAM ST	17	150	DI	1985	50	2035	9,032	20	552	-
Mount Forest: - Water Distribution	DURHAM ST	17	150	DI	1985	50	2035	8,931	20	546	-
Mount Forest: - Water Distribution	DURHAM ST	58	150	DI	1985	50	2035	30,934	20	1,892	-
Mount Forest: - Water Distribution	DURHAM ST	24	150	DI	1985	50	2035	12,731	20	779	-
Mount Forest: - Water Distribution	DURHAM ST	1	150	DI	1985	50	2035	346	20	21	-
Mount Forest: - Water Distribution	DURHAM ST	157	150	DI	1985	50	2035	83,637	20	5,115	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	DURHAM ST	11	150	DI	1985	50	2035	5,734	20	351	-
Mount Forest: - Water Distribution	DURHAM ST	1	150	DI	1985	50	2035	783	20	48	-
Mount Forest: - Water Distribution	DURHAM ST	39	150	DI	1985	50	2035	20,804	20	1,272	-
Mount Forest: - Water Distribution	DURHAM ST	103	150	DI	1985	50	2035	54,648	20	3,342	-
Mount Forest: - Water Distribution	DURHAM ST	20	150	PE	1990	50	2040	10,487	25	537	-
Mount Forest: - Water Distribution	DURHAM ST	239	250	PVC	1995	80	2075	141,198	60	4,062	-
Mount Forest: - Water Distribution	DURHAM ST	1	250	PVC	1995	80	2075	514	60	15	-
Mount Forest: - Water Distribution	DURHAM ST	2	250	PVC	1995	80	2075	1,010	60	29	-
Mount Forest: - Water Distribution	DURHAM ST	0	250	PVC	1995	80	2075	284	60	8	-
Mount Forest: - Water Distribution	DURHAM ST	4	250	PVC	1995	80	2075	2,298	60	66	-
Mount Forest: - Water Distribution	DURHAM ST	1	250	PVC	1995	80	2075	331	60	10	-
Mount Forest: - Water Distribution	DURHAM ST	1	250	PVC	1995	80	2075	721	60	21	-
Mount Forest: - Water Distribution	DURHAM ST	2	250	PVC	1995	80	2075	1,217	60	35	-
Mount Forest: - Water Distribution	DURHAM ST	24	250	PVC	1995	80	2075	14,091	60	405	-
Mount Forest: - Water Distribution	DURHAM ST	10	250	PVC	1995	80	2075	5,884	60	169	-
Mount Forest: - Water Distribution	DURHAM ST	2	250	PVC	1995	80	2075	945	60	27	-
Mount Forest: - Water Distribution	DURHAM ST W	103	250	PVC	1995	80	2075	60,948	60	1,753	-
Mount Forest: - Water Distribution	DURHAM ST W	220	250	PVC	1995	80	2075	130,150	60	3,744	-
Mount Forest: - Water Distribution	EASEMENT	14	150	DI	1985	50	2035	7,492	20	458	-
Mount Forest: - Water Distribution	EASEMENT	6	150	DI	1985	50	2035	3,347	20	205	-
Mount Forest: - Water Distribution	EGREMONT ST	132	100	CI	1975	80	2055	70,315	40	2,570	-
Mount Forest: - Water Distribution	EGREMONT ST	167	100	CI	1975	80	2055	89,137	40	3,258	-
Mount Forest: - Water Distribution	EGREMONT ST	5	100	CI	1975	80	2055	2,553	40	93	-
Mount Forest: - Water Distribution	EGREMONT ST	9	100	CI	1975	80	2055	4,748	40	174	-
Mount Forest: - Water Distribution	EGREMONT ST	53	100	CI	1975	80	2055	28,254	40	1,033	-
Mount Forest: - Water Distribution	EGREMONT ST	74	100	CI	1975	80	2055	39,386	40	1,440	-
Mount Forest: - Water Distribution	EGREMONT ST	22	100	CI	1975	80	2055	11,830	40	432	-
Mount Forest: - Water Distribution	EGREMONT ST	4	100	CI	1975	80	2055	1,892	40	69	-
Mount Forest: - Water Distribution	EGREMONT ST	51	100	CI	1975	80	2055	27,177	40	993	-
Mount Forest: - Water Distribution	EGREMONT ST	2	100	CI	1975	80	2055	1,018	40	37	-
Mount Forest: - Water Distribution	EGREMONT ST	23	100	CI	1975	80	2055	12,262	40	448	-
Mount Forest: - Water Distribution	EGREMONT ST	11	100	CI	1975	80	2055	5,856	40	214	-
Mount Forest: - Water Distribution	EGREMONT ST	0	100	CI	1975	80	2055	240	40	9	-
Mount Forest: - Water Distribution	EGREMONT ST	0	100	CI	1975	80	2055	240	40	9	-
Mount Forest: - Water Distribution	EGREMONT ST	1	100	CI	1975	80	2055	277	40	10	-
Mount Forest: - Water Distribution	EGREMONT ST	5	100	CI	1975	80	2055	2,782	40	102	-
Mount Forest: - Water Distribution	EGREMONT ST	5	100	CI	1975	80	2055	2,398	40	88	-
Mount Forest: - Water Distribution	EGREMONT ST	39	100	CI	1975	80	2055	20,665	40	755	-
Mount Forest: - Water Distribution	EGREMONT ST	169	100	CI	1975	80	2055	89,845	40	3,284	-
Mount Forest: - Water Distribution	EGREMONT ST	92	100	CI	1975	80	2055	49,026	40	1,792	-
Mount Forest: - Water Distribution	EGREMONT ST	5	100	CI	1975	80	2055	2,419	40	88	-
Mount Forest: - Water Distribution	EGREMONT ST	182	100	CI	1975	80	2055	97,007	40	3,546	-
Mount Forest: - Water Distribution	EGREMONT ST	11	100	CI	1975	80	2055	5,904	40	216	-
Mount Forest: - Water Distribution	EGREMONT ST	3	100	CI	1975	80	2055	1,402	40	51	-
Mount Forest: - Water Distribution	EGREMONT ST	170	100	CI	1975	80	2055	90,629	40	3,313	-
Mount Forest: - Water Distribution	EGREMONT ST	8	100	CI	1975	80	2055	4,220	40	154	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	EGREMONT ST	13	100	CI	1975	80	2055	6,853	40	251	-
Mount Forest: - Water Distribution	EGREMONT ST	2	100	DI	1985	50	2035	1,039	20	64	-
Mount Forest: - Water Distribution	ELGIN ST	11	100	CI	1975	80	2055	5,787	40	212	-
Mount Forest: - Water Distribution	ELGIN ST	170	100	CI	1975	80	2055	90,836	40	3,321	-
Mount Forest: - Water Distribution	ELGIN ST	3	100	CI	1975	80	2055	1,513	40	55	-
Mount Forest: - Water Distribution	ELGIN ST	6	100	CI	1975	80	2055	3,011	40	110	-
Mount Forest: - Water Distribution	ELGIN ST	9	100	DI	1985	50	2035	4,588	20	281	-
Mount Forest: - Water Distribution	ELGIN ST	177	100	DI	1985	50	2035	94,423	20	5,775	-
Mount Forest: - Water Distribution	ELGIN ST	2	100	DI	1985	50	2035	885	20	54	-
Mount Forest: - Water Distribution	ELGIN ST	16	100	DI	1985	50	2035	8,686	20	531	-
Mount Forest: - Water Distribution	ELGIN ST	172	100	DI	1985	50	2035	91,689	20	5,607	-
Mount Forest: - Water Distribution	ELGIN ST	4	100	DI	1985	50	2035	2,169	20	133	-
Mount Forest: - Water Distribution	ELGIN ST	6	100	DI	1985	50	2035	3,176	20	194	-
Mount Forest: - Water Distribution	FERGUS ST	16	100	CI	1975	80	2055	8,436	40	308	-
Mount Forest: - Water Distribution	FERGUS ST	1	100	CI	1975	80	2055	480	40	18	-
Mount Forest: - Water Distribution	FERGUS ST	1	100	CI	1975	80	2055	746	40	27	-
Mount Forest: - Water Distribution	FERGUS ST	3	100	CI	1975	80	2055	1,801	40	66	-
Mount Forest: - Water Distribution	FERGUS ST	7	100	CI	1975	80	2055	3,778	40	138	-
Mount Forest: - Water Distribution	FERGUS ST	120	100	CI	1975	80	2055	64,085	40	2,343	-
Mount Forest: - Water Distribution	FERGUS ST	182	100	CI	1975	80	2055	96,842	40	3,540	-
Mount Forest: - Water Distribution	FERGUS ST	17	100	CI	1975	80	2055	9,059	40	331	-
Mount Forest: - Water Distribution	FERGUS ST	8	100	CI	1975	80	2055	4,220	40	154	-
Mount Forest: - Water Distribution	FERGUS ST	175	100	CI	1975	80	2055	93,485	40	3,417	-
Mount Forest: - Water Distribution	FERGUS ST	5	100	CI	1975	80	2055	2,622	40	96	-
Mount Forest: - Water Distribution	FERGUS ST	4	100	CI	1975	80	2055	2,297	40	84	-
Mount Forest: - Water Distribution	FERGUS ST	166	100	CI	1975	80	2055	88,678	40	3,242	-
Mount Forest: - Water Distribution	FERGUS ST	163	100	CI	1975	80	2055	87,042	40	3,182	-
Mount Forest: - Water Distribution	FERGUS ST	161	100	CI	1975	80	2055	86,056	40	3,146	-
Mount Forest: - Water Distribution	FERGUS ST	4	100	CI	1975	80	2055	2,233	40	82	-
Mount Forest: - Water Distribution	FERGUS ST	128	100	CI	1975	80	2055	68,135	40	2,491	-
Mount Forest: - Water Distribution	FERGUS ST	9	100	CI	1975	80	2055	4,716	40	172	-
Mount Forest: - Water Distribution	FERGUS ST	8	100	PVC	1995	80	2075	4,199	60	121	-
Mount Forest: - Water Distribution	FERGUS ST	5	150	PVC	1995	80	2075	2,579	60	74	-
Mount Forest: - Water Distribution	FERGUS ST	10	150	PVC	1995	80	2075	5,148	60	148	-
Mount Forest: - Water Distribution	FOREST GLEN CRES	79	150	DI	1985	50	2035	42,040	20	2,571	-
Mount Forest: - Water Distribution	FOREST GLEN CRES	39	150	DI	1985	50	2035	20,772	20	1,270	-
Mount Forest: - Water Distribution	FOREST GLEN CRES	75	150	DI	1985	50	2035	40,052	20	2,449	-
Mount Forest: - Water Distribution	FOREST GLEN CRES	2	150	DI	1985	50	2035	1,108	20	68	-
Mount Forest: - Water Distribution	FOREST GLEN CRES	68	150	DI	1985	50	2035	36,162	20	2,212	-
Mount Forest: - Water Distribution	FOREST GLEN CRES	16	250	DI	1985	50	2035	9,595	20	587	-
Mount Forest: - Water Distribution	FOREST GLEN CRES	21	150	DI	1985	50	2035	11,212	20	686	-
Mount Forest: - Water Distribution	FOREST GLEN DR	122	150	DI	1985	50	2035	65,050	20	3,978	-
Mount Forest: - Water Distribution	FOSTER ST	101	250	PVC	1995	80	2075	59,631	60	1,715	-
Mount Forest: - Water Distribution	FOSTER ST	30	250	PVC	1995	80	2075	17,630	60	507	-
Mount Forest: - Water Distribution	FOSTER ST	118	250	PVC	1995	80	2075	69,852	60	2,009	-
Mount Forest: - Water Distribution	FOSTER ST	54	250	PVC	1995	80	2075	31,620	60	910	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	FOSTER ST	1	250	PVC	1995	80	2075	756	60	22	-
Mount Forest: - Water Distribution	FOSTER ST	13	250	PVC	1995	80	2075	7,698	60	221	-
Mount Forest: - Water Distribution	FOSTER ST	1	250	PVC	1995	80	2075	343	60	10	-
Mount Forest: - Water Distribution	FOSTER ST	1	250	PVC	1995	80	2075	691	60	20	-
Mount Forest: - Water Distribution	FOSTER ST	2	250	PVC	1995	80	2075	1,229	60	35	-
Mount Forest: - Water Distribution	GEORGE ST	22	300	CI	1975	80	2055	13,391	40	490	-
Mount Forest: - Water Distribution	GEORGE ST	27	300	PVC	1995	80	2075	16,381	60	471	-
Mount Forest: - Water Distribution	GEORGE ST (Now Grant Street)	72	300	CI	1975	80	2055	44,072	40	1,611	-
Mount Forest: - Water Distribution	GRANT ST	1	300	CI	1975	80	2055	491	40	18	-
Mount Forest: - Water Distribution	GRANT ST	22	300	PVC	1995	80	2075	13,624	60	392	-
Mount Forest: - Water Distribution	GRANT ST	3	300	PVC	1995	80	2075	1,535	60	44	-
Mount Forest: - Water Distribution	HENRY ST	123	150	DI	1985	50	2035	65,396	20	3,999	-
Mount Forest: - Water Distribution	HENRY ST	29	150	DI	1985	50	2035	15,331	20	938	-
Mount Forest: - Water Distribution	HENRY ST	15	150	DI	1985	50	2035	8,201	20	502	-
Mount Forest: - Water Distribution	HENRY ST	2	150	DI	1985	50	2035	1,194	20	73	-
Mount Forest: - Water Distribution	HOMEWOOD ST	17	150	DI	1985	50	2035	8,793	20	538	-
Mount Forest: - Water Distribution	HOMEWOOD ST	173	150	DI	1985	50	2035	92,051	20	5,630	-
Mount Forest: - Water Distribution	HOMEWOOD ST	23	150	DI	1985	50	2035	12,406	20	759	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	82	250	PVC	1995	80	2075	48,529	60	1,396	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	9	250	PVC	1995	80	2075	5,506	60	158	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	22	250	PVC	1995	80	2075	12,720	60	366	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	102	250	PVC	1995	80	2075	59,968	60	1,725	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	15	250	PVC	1995	80	2075	8,974	60	258	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	51	250	PVC	1995	80	2075	30,019	60	864	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	5	250	PVC	1995	80	2075	2,706	60	78	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	165	250	PVC	1995	80	2075	97,295	60	2,799	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	16	250	PVC	1995	80	2075	9,158	60	263	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	5	250	PVC	1995	80	2075	2,659	60	76	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	13	250	PVC	1995	80	2075	7,545	60	217	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	32	250	PVC	1995	80	2075	18,906	60	544	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	98	250	PVC	1995	80	2075	57,657	60	1,659	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	15	250	PVC	1995	80	2075	9,099	60	262	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	60	250	PVC	1995	80	2075	35,526	60	1,022	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	8	250	PVC	1995	80	2075	4,738	60	136	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	6	250	PVC	1995	80	2075	3,551	60	102	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	56	250	PVC	1995	80	2075	33,044	60	951	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	19	250	PVC	1995	80	2075	11,060	60	318	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	8	250	PVC	1995	80	2075	4,673	60	134	-
Mount Forest: - Water Distribution	INDUSTRIAL RD	56	250	PVC	1995	80	2075	33,038	60	950	-
Mount Forest: - Water Distribution	IRWIN LYTLE DR	2	300	PVC	1995	80	2075	1,388	60	40	-
Mount Forest: - Water Distribution	IRWIN LYTLE DR	13	300	PVC	1995	80	2075	7,871	60	226	-
Mount Forest: - Water Distribution	IRWIN LYTLE DR	5	300	PVC	1995	80	2075	3,242	60	93	-
Mount Forest: - Water Distribution	IRWIN LYTLE DR	99	300	PVC	1995	80	2075	60,490	60	1,740	-
Mount Forest: - Water Distribution	IRWIN LYTLE DR	82	300	PVC	1995	80	2075	50,623	60	1,456	-
Mount Forest: - Water Distribution	JAMES ST	169	100	CI	1975	80	2055	90,282	40	3,300	-
Mount Forest: - Water Distribution	JAMES ST	8	100	CI	1975	80	2055	4,103	40	150	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	JAMES ST	155	100	CI	1975	80	2055	82,646	40	3,021	-
Mount Forest: - Water Distribution	JAMES ST	25	100	CI	1975	80	2055	13,232	40	484	-
Mount Forest: - Water Distribution	JAMES ST	6	100	CI	1975	80	2055	3,426	40	125	-
Mount Forest: - Water Distribution	JAMES ST	15	100	CI	1975	80	2055	8,073	40	295	-
Mount Forest: - Water Distribution	JAMES ST	8	100	CI	1975	80	2055	4,013	40	147	-
Mount Forest: - Water Distribution	JEREMYS CRES	5	150	PVC	1990	80	2070	2,648	55	80	-
Mount Forest: - Water Distribution	JEREMYS CRES	92	150	PVC	1990	80	2070	49,111	55	1,480	-
Mount Forest: - Water Distribution	JEREMYS CRES	108	150	PVC	1990	80	2070	57,307	55	1,727	-
Mount Forest: - Water Distribution	JEREMYS CRES	93	150	PVC	1990	80	2070	49,292	55	1,486	-
Mount Forest: - Water Distribution	JEREMYS CRES	5	150	PVC	1990	80	2070	2,894	55	87	-
Mount Forest: - Water Distribution	JOHN ST	4	100	CI	1975	80	2055	2,137	40	78	-
Mount Forest: - Water Distribution	JOHN ST	168	100	CI	1975	80	2055	89,547	40	3,273	-
Mount Forest: - Water Distribution	JOHN ST	10	100	CI	1975	80	2055	5,105	40	187	-
Mount Forest: - Water Distribution	JOHN ST	22	100	CI	1975	80	2055	11,846	40	433	-
Mount Forest: - Water Distribution	JOHN ST	73	100	CI	1975	80	2055	39,157	40	1,431	-
Mount Forest: - Water Distribution	JOHN ST	66	100	CI	1975	80	2055	34,910	40	1,276	-
Mount Forest: - Water Distribution	JOHN ST	4	100	CI	1975	80	2055	2,009	40	73	-
Mount Forest: - Water Distribution	JOHN ST	15	100	CI	1975	80	2055	8,025	40	293	-
Mount Forest: - Water Distribution	JUSTINS PL	11	150	PVC	1990	80	2070	5,894	55	178	-
Mount Forest: - Water Distribution	JUSTINS PL	75	150	PVC	1990	80	2070	39,887	55	1,202	-
Mount Forest: - Water Distribution	KING ST	6	100	CI	1932	80	2015	3,293	0	in capital budget	3,293
Mount Forest: - Water Distribution	KING ST	84	100	CI	1932	80	2015	44,811	0	in capital budget	44,811
Mount Forest: - Water Distribution	KING ST	5	100	CI	1932	80	2015	2,664	0	in capital budget	2,664
Mount Forest: - Water Distribution	KING ST	4	100	CI	1932	80	2015	2,174	0	in capital budget	2,174
Mount Forest: - Water Distribution	KING ST	148	100	CI	1932	80	2015	79,044	0	in capital budget	79,044
Mount Forest: - Water Distribution	KING ST	113	100	CI	1932	80	2015	60,099	0	in capital budget	60,099
Mount Forest: - Water Distribution	KING ST	52	100	CI	1932	80	2015	27,833	0	in capital budget	27,833
Mount Forest: - Water Distribution	KING ST	1	100	CI	1932	80	2015	538	0	in capital budget	538
Mount Forest: - Water Distribution	KING ST	1	100	CI	1932	80	2015	330	0	in capital budget	330
Mount Forest: - Water Distribution	KING ST	1	100	CI	1932	80	2015	506	0	in capital budget	506
Mount Forest: - Water Distribution	KING ST	105	100	CI	1932	80	2015	56,012	0	in capital budget	56,012
Mount Forest: - Water Distribution	KING ST	75	100	CI	1932	80	2015	39,738	0	in capital budget	39,738
Mount Forest: - Water Distribution	KING ST	13	100	CI	1932	80	2015	7,018	0	in capital budget	7,018
Mount Forest: - Water Distribution	KING ST	306	150	PVC	1995	80	2075	163,160	60	4,694	-
Mount Forest: - Water Distribution	KING ST	14	150	PVC	1995	80	2075	7,317	60	210	-
Mount Forest: - Water Distribution	KING ST	56	150	PVC	1995	80	2075	29,629	60	852	-
Mount Forest: - Water Distribution	KING ST	14	150	PVC	1995	80	2075	7,226	60	208	-
Mount Forest: - Water Distribution	LONDON RD	2	150	DI	1985	50	2035	1,316	20	80	-
Mount Forest: - Water Distribution	LONDON RD	12	150	DI	1985	50	2035	6,416	20	392	-
Mount Forest: - Water Distribution	LONDON RD	4	150	PVC	1995	80	2075	2,153	60	62	-
Mount Forest: - Water Distribution	LONDON RD	176	150	PVC	1995	80	2075	93,639	60	2,694	-
Mount Forest: - Water Distribution	LONDON RD	83	150	PVC	1995	80	2075	43,974	60	1,265	-
Mount Forest: - Water Distribution	LONDON RD	17	150	PVC	1995	80	2075	9,123	60	262	-
Mount Forest: - Water Distribution	MAIN ST	12	200	CI	1975	80	2055	6,545	40	239	-
Mount Forest: - Water Distribution	MAIN ST	6	200	CI	1975	80	2055	3,125	40	114	-
Mount Forest: - Water Distribution	MAIN ST	129	200	CI	1975	80	2055	71,865	40	2,627	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	MAIN ST	76	200	CI	1975	80	2055	42,261	40	1,545	-
Mount Forest: - Water Distribution	MAIN ST	15	200	CI	1975	80	2055	8,363	40	306	-
Mount Forest: - Water Distribution	MAIN ST	115	200	CI	1975	80	2055	63,741	40	2,330	-
Mount Forest: - Water Distribution	MAIN ST	97	200	CI	1975	80	2055	53,793	40	1,966	-
Mount Forest: - Water Distribution	MAIN ST	3	250	CI	1975	80	2055	1,577	40	58	-
Mount Forest: - Water Distribution	MAIN ST	187	200	CI	1975	80	2055	103,916	40	3,799	-
Mount Forest: - Water Distribution	MAIN ST	68	200	CI	1975	80	2055	37,695	40	1,378	-
Mount Forest: - Water Distribution	MAIN ST	108	200	CI	1975	80	2055	60,066	40	2,196	-
Mount Forest: - Water Distribution	MAIN ST	57	200	CI	1975	80	2055	31,807	40	1,163	-
Mount Forest: - Water Distribution	MAIN ST	6	200	CI	1975	80	2055	3,247	40	119	-
Mount Forest: - Water Distribution	MAIN ST	32	200	CI	1975	80	2055	17,805	40	651	-
Mount Forest: - Water Distribution	MAIN ST	42	200	CI	1975	80	2055	23,555	40	861	-
Mount Forest: - Water Distribution	MAIN ST	72	200	CI	1975	80	2055	40,214	40	1,470	-
Mount Forest: - Water Distribution	MAIN ST	35	200	CI	1975	80	2055	19,523	40	714	-
Mount Forest: - Water Distribution	MAIN ST	7	200	CI	1975	80	2055	4,098	40	150	-
Mount Forest: - Water Distribution	MAIN ST	10	200	CI	1975	80	2055	5,349	40	196	-
Mount Forest: - Water Distribution	MAIN ST	69	200	CI	1975	80	2055	38,390	40	1,403	-
Mount Forest: - Water Distribution	MAIN ST	110	200	CI	1975	80	2055	61,211	40	2,238	-
Mount Forest: - Water Distribution	MAIN ST	108	200	CI	1975	80	2055	59,982	40	2,193	-
Mount Forest: - Water Distribution	MAIN ST	1	200	CI	1975	80	2055	534	40	20	-
Mount Forest: - Water Distribution	MAIN ST	12	200	CI	1975	80	2055	6,673	40	244	-
Mount Forest: - Water Distribution	MAIN ST	8	200	CI	1975	80	2055	4,304	40	157	-
Mount Forest: - Water Distribution	MAIN ST	202	200	CI	1975	80	2055	112,079	40	4,097	-
Mount Forest: - Water Distribution	MAIN ST	0	200	CI	1975	80	2055	172	40	6	-
Mount Forest: - Water Distribution	MAIN ST	41	200	CI	1975	80	2055	22,782	40	833	-
Mount Forest: - Water Distribution	MAIN ST	1	150	DI	1985	50	2035	666	20	41	-
Mount Forest: - Water Distribution	MAIN ST	161	200	DI	1985	50	2035	89,442	20	5,470	-
Mount Forest: - Water Distribution	MAIN ST	1	150	DI	1985	50	2035	320	20	20	-
Mount Forest: - Water Distribution	MAIN ST	19	150	DI	1985	50	2035	10,253	20	627	-
Mount Forest: - Water Distribution	MAIN ST	5	150	DI	1985	50	2035	2,760	20	169	-
Mount Forest: - Water Distribution	MAIN ST	295	150	DI	1985	50	2035	157,240	20	9,616	-
Mount Forest: - Water Distribution	MAIN ST	5	200	DI	1985	50	2035	2,741	20	168	-
Mount Forest: - Water Distribution	MAIN ST	5	200	DI	1985	50	2035	2,869	20	175	-
Mount Forest: - Water Distribution	MAIN ST	1	200	DI	1985	50	2035	556	20	34	-
Mount Forest: - Water Distribution	MAIN ST	221	200	DI	1985	50	2035	122,878	20	7,515	-
Mount Forest: - Water Distribution	MAIN ST	9	250	PVC	2007	80	2087	5,317	72	140	-
Mount Forest: - Water Distribution	MAIN ST	1	250	PVC	2007	80	2087	774	72	20	-
Mount Forest: - Water Distribution	MAIN ST	13	250	PVC	2007	80	2087	7,456	72	196	-
Mount Forest: - Water Distribution	MAIN ST	1	250	PVC	2007	80	2087	549	72	14	-
Mount Forest: - Water Distribution	MAIN ST	2	250	PVC	2007	80	2087	933	72	25	-
Mount Forest: - Water Distribution	MAIN ST	1	250	PVC	2007	80	2087	473	72	12	-
Mount Forest: - Water Distribution	MAIN ST	5	250	PVC	2007	80	2087	2,990	72	79	-
Mount Forest: - Water Distribution	MAIN ST	5	250	PVC	2007	80	2087	2,966	72	78	-
Mount Forest: - Water Distribution	MAIN ST	68	250	PVC	2007	80	2087	40,093	72	1,056	-
Mount Forest: - Water Distribution	MAIN ST	1	250	PVC	2007	80	2087	490	72	13	-
Mount Forest: - Water Distribution	MAIN ST	4	250	PVC	2007	80	2087	2,351	72	62	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	MAIN ST	2	250	PVC	2007	80	2087	1,424	72	37	-
Mount Forest: - Water Distribution	MAIN ST	1	250	PVC	2007	80	2087	549	72	14	-
Mount Forest: - Water Distribution	MAIN ST	6	250	PVC	2007	80	2087	3,285	72	86	-
Mount Forest: - Water Distribution	MAIN ST	1	250	PVC	2007	80	2087	354	72	9	-
Mount Forest: - Water Distribution	MAIN ST	15	250	PVC	2007	80	2087	8,980	72	236	-
Mount Forest: - Water Distribution	MAIN ST	1	250	PVC	2007	80	2087	331	72	9	-
Mount Forest: - Water Distribution	MAIN WATER ST	208	250	PE	1990	50	2040	122,948	25	6,297	-
Mount Forest: - Water Distribution	MARTIN ST	163	150	PVC	1995	80	2075	86,802	60	2,497	-
Mount Forest: - Water Distribution	MARTIN ST	19	150	PVC	1995	80	2075	10,231	60	294	-
Mount Forest: - Water Distribution	McDONALD ST	10	100	CI	1975	80	2055	5,201	40	190	-
Mount Forest: - Water Distribution	McDONALD ST	5	150	CI	1975	80	2055	2,483	40	91	-
Mount Forest: - Water Distribution	McDONALD ST	5	150	CI	1975	80	2055	2,824	40	103	-
Mount Forest: - Water Distribution	McDONALD ST	127	150	CI	1975	80	2055	67,501	40	2,468	-
Mount Forest: - Water Distribution	McDONALD ST	2	150	CI	1975	80	2055	1,055	40	39	-
Mount Forest: - Water Distribution	McDONALD ST	219	150	PVC	1995	80	2075	116,447	60	3,350	-
Mount Forest: - Water Distribution	McDONALD ST	13	150	PVC	1995	80	2075	7,103	60	204	-
Mount Forest: - Water Distribution	MELISSA CRES	54	150	PVC	1995	80	2075	28,888	60	831	-
Mount Forest: - Water Distribution	MELISSA CRES	23	150	PVC	1995	80	2075	12,118	60	349	-
Mount Forest: - Water Distribution	MELISSA CRES	27	150	PVC	1995	80	2075	14,164	60	407	-
Mount Forest: - Water Distribution	MELISSA CRES	133	150	PVC	1995	80	2075	70,944	60	2,041	-
Mount Forest: - Water Distribution	MELISSA CRES	15	150	PVC	1995	80	2075	8,111	60	233	-
Mount Forest: - Water Distribution	MELISSA CRES	18	150	PVC	1995	80	2075	9,688	60	279	-
Mount Forest: - Water Distribution	MELISSA CRES	87	150	PVC	1995	80	2075	46,399	60	1,335	-
Mount Forest: - Water Distribution	MELISSA CRES	5	150	PVC	1995	80	2075	2,830	60	81	-
Mount Forest: - Water Distribution	MELISSA CRES	4	150	PVC	1995	80	2075	2,355	60	68	-
Mount Forest: - Water Distribution	MILLER ST	230	100	CI	1975	80	2055	122,725	40	4,486	-
Mount Forest: - Water Distribution	MOUNT FOREST DR	136	250	DI	1985	50	2035	80,274	20	4,909	-
Mount Forest: - Water Distribution	MOUNT FOREST DR	8	250	DI	1985	50	2035	4,809	20	294	-
Mount Forest: - Water Distribution	MOUNT FOREST DR	2	250	PVC	1995	80	2075	1,471	60	42	-
Mount Forest: - Water Distribution	MOUNT FOREST DR	4	250	PVC	1995	80	2075	2,139	60	62	-
Mount Forest: - Water Distribution	MOUNT FOREST DR	2	250	PVC	1995	80	2075	1,471	60	42	-
Mount Forest: - Water Distribution	MOUNT FOREST DR	2	250	PVC	1995	80	2075	1,270	60	37	-
Mount Forest: - Water Distribution	MOUNT FOREST DR	1	250	PVC	1995	80	2075	396	60	11	-
Mount Forest: - Water Distribution	MOUNT FOREST DR	192	250	PVC	1995	80	2075	113,347	60	3,261	-
Mount Forest: - Water Distribution	MOUNT FOREST DR	2	250	PVC	1995	80	2075	1,182	60	34	-
Mount Forest: - Water Distribution	NEWFOUNDLAND ST	2	150	DI	1985	50	2035	815	20	50	-
Mount Forest: - Water Distribution	NEWFOUNDLAND ST	12	150	DI	1985	50	2035	6,176	20	378	-
Mount Forest: - Water Distribution	NEWFOUNDLAND ST	187	150	DI	1985	50	2035	99,720	20	6,099	-
Mount Forest: - Water Distribution	NORMANBY ST	14	100	CI	1975	80	2055	7,349	40	269	-
Mount Forest: - Water Distribution	NORMANBY ST	4	100	CI	1975	80	2055	1,982	40	72	-
Mount Forest: - Water Distribution	NORMANBY ST	191	100	CI	1975	80	2055	101,585	40	3,714	-
Mount Forest: - Water Distribution	NORMANBY ST	172	100	CI	1975	80	2055	91,721	40	3,353	-
Mount Forest: - Water Distribution	NORMANBY ST	6	100	CI	1975	80	2055	3,187	40	116	-
Mount Forest: - Water Distribution	NORMANBY ST	85	100	DI	1985	50	2035	45,029	20	2,754	-
Mount Forest: - Water Distribution	NORMANBY ST	5	100	DI	1985	50	2035	2,696	20	165	-
Mount Forest: - Water Distribution	NORMANBY ST	6	150	PVC	1995	80	2075	3,096	60	89	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	NORMANBY ST	110	150	PVC	1995	80	2075	58,565	60	1,685	-
Mount Forest: - Water Distribution	NORTH WATER ST	110	150	CI	1975	80	2055	58,794	40	2,149	-
Mount Forest: - Water Distribution	NORTH WATER ST	83	150	CI	1975	80	2055	44,368	40	1,622	-
Mount Forest: - Water Distribution	NORTH WATER ST	36	150	DI	1985	50	2035	19,291	20	1,180	-
Mount Forest: - Water Distribution	NORTH WATER ST	14	150	DI	1985	50	2035	7,631	20	467	-
Mount Forest: - Water Distribution	NORTH WATER ST	0	150	DI	1985	50	2035	181	20	11	-
Mount Forest: - Water Distribution	NORTH WATER ST	13	150	DI	1985	50	2035	7,066	20	432	-
Mount Forest: - Water Distribution	NORTH WATER ST	130	150	DI	1985	50	2035	69,356	20	4,242	-
Mount Forest: - Water Distribution	NORTH WATER ST	4	150	DI	1985	50	2035	2,137	20	131	-
Mount Forest: - Water Distribution	NORTH WATER ST	8	150	PVC	1995	80	2075	4,236	60	122	-
Mount Forest: - Water Distribution	NORTH WATER ST	15	150	PVC	1995	80	2075	7,865	60	226	-
Mount Forest: - Water Distribution	NORTH WATER ST	113	150	PVC	1995	80	2075	60,440	60	1,739	-
Mount Forest: - Water Distribution	NORTH WATER ST	477	300	PVC	1995	80	2075	292,931	60	8,427	-
Mount Forest: - Water Distribution	OAKVIEW CRES	19	150	DI	1985	50	2035	10,008	20	612	-
Mount Forest: - Water Distribution	OAKVIEW CRES	5	150	DI	1985	50	2035	2,851	20	174	-
Mount Forest: - Water Distribution	OAKVIEW CRES	337	150	DI	1985	50	2035	179,387	20	10,971	-
Mount Forest: - Water Distribution	OAKVIEW CRES	0	150	DI	1985	50	2035	133	20	8	-
Mount Forest: - Water Distribution	PARKSIDE ST	13	250	CI	1975	80	2055	7,497	40	274	-
Mount Forest: - Water Distribution	PARKSIDE ST	7	250	CI	1975	80	2055	3,864	40	141	-
Mount Forest: - Water Distribution	PARKSIDE ST	16	250	CI	1975	80	2055	9,181	40	336	-
Mount Forest: - Water Distribution	PARKSIDE ST	7	250	DI	1985	50	2035	4,260	20	261	-
Mount Forest: - Water Distribution	PARKSIDE ST	2	250	PVC	1995	80	2075	1,329	60	38	-
Mount Forest: - Water Distribution	PARKSIDE ST	5	250	PVC	1995	80	2075	2,747	60	79	-
Mount Forest: - Water Distribution	PARKSIDE ST	7	250	PVC	1995	80	2075	4,124	60	119	-
Mount Forest: - Water Distribution	PARKSIDE ST	171	250	PVC	1995	80	2075	100,799	60	2,900	-
Mount Forest: - Water Distribution	PARKSIDE ST	12	250	PVC	1995	80	2075	6,806	60	196	-
Mount Forest: - Water Distribution	PARKSIDE ST	110	250	PVC	1995	80	2075	65,060	60	1,872	-
Mount Forest: - Water Distribution	PARKSIDE ST	82	250	PVC	1995	80	2075	48,701	60	1,401	-
Mount Forest: - Water Distribution	PARKSIDE ST	53	250	PVC	1995	80	2075	31,561	60	908	-
Mount Forest: - Water Distribution	PARKSIDE ST	79	300	PVC	1995	80	2075	48,333	60	1,390	-
Mount Forest: - Water Distribution	PARKSIDE ST	27	300	PVC	1995	80	2075	16,436	60	473	-
Mount Forest: - Water Distribution	PARKSIDE ST	4	250	PVC	1995	80	2075	2,523	60	73	-
Mount Forest: - Water Distribution	PARKSIDE ST	1	250	PVC	1995	80	2075	609	60	18	-
Mount Forest: - Water Distribution	PARKSIDE ST	17	250	PVC	1995	80	2075	10,322	60	297	-
Mount Forest: - Water Distribution	PEEL ST	3	100	CI	1975	80	2055	1,625	40	59	-
Mount Forest: - Water Distribution	PEEL ST	86	100	CI	1975	80	2055	46,047	40	1,683	-
Mount Forest: - Water Distribution	PEEL ST	17	100	CI	1975	80	2055	8,809	40	322	-
Mount Forest: - Water Distribution	PEEL ST	146	100	CI	1975	80	2055	77,839	40	2,845	-
Mount Forest: - Water Distribution	PEEL ST	15	100	CI	1975	80	2055	7,764	40	284	-
Mount Forest: - Water Distribution	PERTH ST	6	250	CI	1975	80	2055	3,563	40	130	-
Mount Forest: - Water Distribution	PERTH ST	128	250	CI	1975	80	2055	75,518	40	2,761	-
Mount Forest: - Water Distribution	PERTH ST	5	250	CI	1975	80	2055	2,836	40	104	-
Mount Forest: - Water Distribution	PERTH ST	13	250	CI	1975	80	2055	7,834	40	286	-
Mount Forest: - Water Distribution	PERTH ST	11	250	CI	1975	80	2055	6,700	40	245	-
Mount Forest: - Water Distribution	PERTH ST	6	250	CI	1975	80	2055	3,314	40	121	-
Mount Forest: - Water Distribution	PERTH ST	6	250	CI	1975	80	2055	3,545	40	130	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	PERTH ST	76	250	CI	1975	80	2055	45,020	40	1,646	-
Mount Forest: - Water Distribution	PERTH ST	70	250	CI	1975	80	2055	41,475	40	1,516	-
Mount Forest: - Water Distribution	PERTH ST	5	250	CI	1975	80	2055	2,735	40	100	-
Mount Forest: - Water Distribution	PERTH ST	3	250	CI	1975	80	2055	1,967	40	72	-
Mount Forest: - Water Distribution	PERTH ST	17	250	CI	1975	80	2055	10,150	40	371	-
Mount Forest: - Water Distribution	PERTH ST	106	250	CI	1975	80	2055	62,886	40	2,299	-
Mount Forest: - Water Distribution	PERTH ST	13	250	CI	1975	80	2055	7,515	40	275	-
Mount Forest: - Water Distribution	PERTH ST	5	250	DI	1985	50	2035	3,055	20	187	-
Mount Forest: - Water Distribution	PERTH ST	18	250	DI	1985	50	2035	10,570	20	646	-
Mount Forest: - Water Distribution	PERTH ST	26	250	DI	1985	50	2035	15,361	20	939	-
Mount Forest: - Water Distribution	PERTH ST	14	250	DI	1985	50	2035	8,289	20	507	-
Mount Forest: - Water Distribution	PERTH ST	16	250	DI	1985	50	2035	9,453	20	578	-
Mount Forest: - Water Distribution	PERTH ST	12	250	PVC	1995	80	2075	7,019	60	202	-
Mount Forest: - Water Distribution	PERTH ST	33	250	PVC	1995	80	2075	19,763	60	569	-
Mount Forest: - Water Distribution	PERTH ST	5	250	PVC	1995	80	2075	3,149	60	91	-
Mount Forest: - Water Distribution	PERTH ST	4	250	PVC	1995	80	2075	2,068	60	59	-
Mount Forest: - Water Distribution	PERTH ST	80	250	PVC	1995	80	2075	47,413	60	1,364	-
Mount Forest: - Water Distribution	PERTH ST	7	250	PVC	1995	80	2075	4,142	60	119	-
Mount Forest: - Water Distribution	PERTH ST	2	250	PVC	1995	80	2075	1,022	60	29	-
Mount Forest: - Water Distribution	PERTH ST	240	250	PVC	1995	80	2075	142,085	60	4,087	-
Mount Forest: - Water Distribution	PERTH ST	54	250	PVC	1995	80	2075	32,128	60	924	-
Mount Forest: - Water Distribution	PERTH ST	57	250	PVC	1995	80	2075	33,842	60	974	-
Mount Forest: - Water Distribution	PERTH/SLIGO	76	250	PE	1990	50	2040	44,884	25	2,299	-
Mount Forest: - Water Distribution	PRINCE CHARLES ST	116	100	DI	1985	50	2035	61,863	20	3,783	-
Mount Forest: - Water Distribution	PRINCE CHARLES ST	13	100	DI	1985	50	2035	6,922	20	423	-
Mount Forest: - Water Distribution	PRINCE CHARLES ST	7	100	DI	1985	50	2035	3,757	20	230	-
Mount Forest: - Water Distribution	PRINCESS ANN ST	9	150	DI	1985	50	2035	4,892	20	299	-
Mount Forest: - Water Distribution	PRINCESS ANN ST	121	150	DI	1985	50	2035	64,704	20	3,957	-
Mount Forest: - Water Distribution	PRINCESS ANN ST	0	150	DI	1985	50	2035	165	20	10	-
Mount Forest: - Water Distribution	PRINCESS ANN ST	3	150	DI	1985	50	2035	1,476	20	90	-
Mount Forest: - Water Distribution	PRINCESS ANN ST	3	150	PVC	1995	80	2075	1,583	60	46	-
Mount Forest: - Water Distribution	PRINCESS ST	89	150	PVC	1995	80	2075	47,512	60	1,367	-
Mount Forest: - Water Distribution	PRINCESS ST	12	150	PVC	1995	80	2075	6,192	60	178	-
Mount Forest: - Water Distribution	PRINCESS ST	14	150	PVC	1995	80	2075	7,679	60	221	-
Mount Forest: - Water Distribution	PRINCESS ST	97	150	PVC	1995	80	2075	51,712	60	1,488	-
Mount Forest: - Water Distribution	PRINCESS ST	18	150	PVC	1995	80	2075	9,480	60	273	-
Mount Forest: - Water Distribution	PRINCESS ST	45	150	PVC	1995	80	2075	23,756	60	683	-
Mount Forest: - Water Distribution	PRINCESS ST	10	150	PVC	1995	80	2075	5,169	60	149	-
Mount Forest: - Water Distribution	PRINCESS ST	6	150	PVC	1995	80	2075	3,128	60	90	-
Mount Forest: - Water Distribution	PRINCESS ST	3	150	PVC	1995	80	2075	1,391	60	40	-
Mount Forest: - Water Distribution	PRINCESS ST	146	150	PVC	1995	80	2075	77,941	60	2,242	-
Mount Forest: - Water Distribution	PRINCESS ST	16	150	PVC	1995	80	2075	8,356	60	240	-
Mount Forest: - Water Distribution	PRINCESS ST	14	150	PVC	1995	80	2075	7,700	60	222	-
Mount Forest: - Water Distribution	QUEEN ST	5	250	CI	1975	80	2055	2,718	40	99	-
Mount Forest: - Water Distribution	QUEEN ST	77	50	COPPER	1980	80	2060	41,214	45	1,398	-
Mount Forest: - Water Distribution	QUEEN ST	9	250	DI	1985	50	2035	5,583	20	341	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	QUEEN ST	45	250	DI	1985	50	2035	26,852	20	1,642	-
Mount Forest: - Water Distribution	QUEEN ST	56	250	DI	1985	50	2035	33,280	20	2,035	-
Mount Forest: - Water Distribution	QUEEN ST	28	250	DI	1985	50	2035	16,271	20	995	-
Mount Forest: - Water Distribution	QUEEN ST	5	250	DI	1985	50	2035	3,131	20	192	-
Mount Forest: - Water Distribution	QUEEN ST	15	250	DI	1985	50	2035	9,140	20	559	-
Mount Forest: - Water Distribution	QUEEN ST	100	250	DI	1985	50	2035	59,188	20	3,620	-
Mount Forest: - Water Distribution	QUEEN ST	23	250	DI	1985	50	2035	13,459	20	823	-
Mount Forest: - Water Distribution	QUEEN ST	10	250	DI	1985	50	2035	5,973	20	365	-
Mount Forest: - Water Distribution	QUEEN ST	38	250	DI	1985	50	2035	22,303	20	1,364	-
Mount Forest: - Water Distribution	QUEEN ST	111	250	DI	1985	50	2035	65,622	20	4,013	-
Mount Forest: - Water Distribution	QUEEN ST	6	250	DI	1985	50	2035	3,545	20	217	-
Mount Forest: - Water Distribution	QUEEN ST	127	250	DI	1985	50	2035	75,305	20	4,605	-
Mount Forest: - Water Distribution	QUEEN ST	10	250	DI	1985	50	2035	5,902	20	361	-
Mount Forest: - Water Distribution	QUEEN ST	6	250	DI	1985	50	2035	3,314	20	203	-
Mount Forest: - Water Distribution	QUEEN ST	38	250	DI	1985	50	2035	22,274	20	1,362	-
Mount Forest: - Water Distribution	QUEEN ST	105	250	DI	1985	50	2035	61,876	20	3,784	-
Mount Forest: - Water Distribution	QUEEN ST	19	250	DI	1985	50	2035	11,279	20	690	-
Mount Forest: - Water Distribution	QUEEN ST	3	250	DI	1985	50	2035	1,967	20	120	-
Mount Forest: - Water Distribution	QUEEN ST	112	250	DI	1985	50	2035	66,207	20	4,049	-
Mount Forest: - Water Distribution	QUEEN ST	85	250	DI	1985	50	2035	49,995	20	3,058	-
Mount Forest: - Water Distribution	QUEEN ST	52	250	DI	1985	50	2035	30,427	20	1,861	-
Mount Forest: - Water Distribution	QUEEN ST	44	250	DI	1985	50	2035	26,102	20	1,596	-
Mount Forest: - Water Distribution	QUEEN ST	10	250	DI	1985	50	2035	6,156	20	376	-
Mount Forest: - Water Distribution	QUEEN ST	16	250	DI	1985	50	2035	9,701	20	593	-
Mount Forest: - Water Distribution	QUEEN ST	49	250	DI	1985	50	2035	29,145	20	1,782	-
Mount Forest: - Water Distribution	QUEEN ST	1	250	DI	1985	50	2035	325	20	20	-
Mount Forest: - Water Distribution	QUEEN ST	0	250	DI	1985	50	2035	230	20	14	-
Mount Forest: - Water Distribution	QUEEN ST	64	250	DI	1985	50	2035	37,694	20	2,305	-
Mount Forest: - Water Distribution	QUEEN ST	5	250	DI	1985	50	2035	3,196	20	195	-
Mount Forest: - Water Distribution	QUEEN ST	0	250	DI	1985	50	2035	136	20	8	-
Mount Forest: - Water Distribution	QUEEN ST	61	250	DI	1985	50	2035	36,264	20	2,218	-
Mount Forest: - Water Distribution	QUEEN ST	15	250	DI	1985	50	2035	9,051	20	554	-
Mount Forest: - Water Distribution	QUEEN ST	74	250	DI	1985	50	2035	43,602	20	2,667	-
Mount Forest: - Water Distribution	QUEEN ST	102	250	DI	1985	50	2035	60,405	20	3,694	-
Mount Forest: - Water Distribution	QUEEN ST	398	250	DI	1985	50	2035	235,149	20	14,381	-
Mount Forest: - Water Distribution	QUEEN ST	10	250	DI	1985	50	2035	5,837	20	357	-
Mount Forest: - Water Distribution	QUEEN ST	84	250	DI	1985	50	2035	49,362	20	3,019	-
Mount Forest: - Water Distribution	QUEEN ST	15	250	DI	1985	50	2035	8,844	20	541	-
Mount Forest: - Water Distribution	QUEEN ST	54	250	DI	1985	50	2035	31,892	20	1,950	-
Mount Forest: - Water Distribution	QUEEN ST	5	250	DI	1985	50	2035	3,114	20	190	-
Mount Forest: - Water Distribution	QUEEN ST	82	250	DI	1985	50	2035	48,216	20	2,949	-
Mount Forest: - Water Distribution	QUEEN ST	208	250	DI	1985	50	2035	122,942	20	7,519	-
Mount Forest: - Water Distribution	QUEEN ST	11	250	DI	1985	50	2035	6,339	20	388	-
Mount Forest: - Water Distribution	QUEEN ST	30	250	DI	1985	50	2035	17,524	20	1,072	-
Mount Forest: - Water Distribution	QUEEN ST	0	250	DI	1985	50	2035	142	20	9	-
Mount Forest: - Water Distribution	QUEEN ST	36	250	DI	1985	50	2035	21,122	20	1,292	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	QUEEN ST	0	250	DI	1985	50	2035	165	20	10	-
Mount Forest: - Water Distribution	QUEEN ST	0	250	DI	1985	50	2035	207	20	13	-
Mount Forest: - Water Distribution	QUEEN ST	118	250	DI	1985	50	2035	70,005	20	4,281	-
Mount Forest: - Water Distribution	QUEEN ST	15	250	PVC	1995	80	2075	8,602	60	247	-
Mount Forest: - Water Distribution	QUEEN ST	11	250	PVC	1995	80	2075	6,322	60	182	-
Mount Forest: - Water Distribution	RIVER XING	187	250	CI	1975	80	2055	110,653	40	4,045	-
Mount Forest: - Water Distribution	SILVERBIRCH ST	4	150	PVC	1995	80	2075	2,020	60	58	-
Mount Forest: - Water Distribution	SILVERBIRCH ST	178	150	PVC	1995	80	2075	94,796	60	2,727	-
Mount Forest: - Water Distribution	SLIGO RD	6	50	COPPER	1980	80	2060	3,208	45	109	-
Mount Forest: - Water Distribution	SLIGO RD	15	250	DI	1985	50	2035	8,714	20	533	-
Mount Forest: - Water Distribution	SLIGO RD	3	250	DI	1985	50	2035	1,637	20	100	-
Mount Forest: - Water Distribution	SLIGO RD	6	250	DI	1985	50	2035	3,332	20	204	-
Mount Forest: - Water Distribution	SLIGO RD	224	250	DI	1985	50	2035	132,283	20	8,090	-
Mount Forest: - Water Distribution	SLIGO RD	6	250	DI	1985	50	2035	3,763	20	230	-
Mount Forest: - Water Distribution	SLIGO RD	3	250	DI	1985	50	2035	1,560	20	95	-
Mount Forest: - Water Distribution	SLIGO RD	2	250	DI	1985	50	2035	1,459	20	89	-
Mount Forest: - Water Distribution	SLIGO RD	11	250	DI	1985	50	2035	6,759	20	413	-
Mount Forest: - Water Distribution	SLIGO RD	277	250	DI	1985	50	2035	163,868	20	10,022	-
Mount Forest: - Water Distribution	SLIGO RD	7	250	DI	1985	50	2035	4,165	20	255	-
Mount Forest: - Water Distribution	SLIGO RD	2	250	DI	1985	50	2035	1,146	20	70	-
Mount Forest: - Water Distribution	SLIGO RD	4	250	DI	1985	50	2035	2,393	20	146	-
Mount Forest: - Water Distribution	SLIGO RD	1	250	DI	1985	50	2035	325	20	20	-
Mount Forest: - Water Distribution	SLIGO RD	3	250	DI	1985	50	2035	1,483	20	91	-
Mount Forest: - Water Distribution	SLIGO RD	14	250	DI	1985	50	2035	8,212	20	502	-
Mount Forest: - Water Distribution	SLIGO RD	167	250	DI	1985	50	2035	98,808	20	6,043	-
Mount Forest: - Water Distribution	SLIGO RD	16	250	DI	1985	50	2035	9,725	20	595	-
Mount Forest: - Water Distribution	SLIGO RD	21	250	DI	1985	50	2035	12,265	20	750	-
Mount Forest: - Water Distribution	SLIGO RD	61	250	DI	1985	50	2035	36,252	20	2,217	-
Mount Forest: - Water Distribution	SLIGO RD	3	250	DI	1985	50	2035	1,979	20	121	-
Mount Forest: - Water Distribution	SLIGO RD	4	250	DI	1985	50	2035	2,505	20	153	-
Mount Forest: - Water Distribution	SLIGO RD	51	250	DI	1985	50	2035	30,173	20	1,845	-
Mount Forest: - Water Distribution	SLIGO RD	80	300	PVC	1995	80	2075	48,971	60	1,409	-
Mount Forest: - Water Distribution	SLIGO RD	4	300	PVC	1995	80	2075	2,695	60	78	-
Mount Forest: - Water Distribution	SLIGO RD	1	300	PVC	1995	80	2075	602	60	17	-
Mount Forest: - Water Distribution	SLIGO RD	5	300	PVC	1995	80	2075	3,371	60	97	-
Mount Forest: - Water Distribution	SLIGO RD	6	300	PVC	1995	80	2075	3,899	60	112	-
Mount Forest: - Water Distribution	SLIGO RD	14	300	PVC	1995	80	2075	8,823	60	254	-
Mount Forest: - Water Distribution	SLIGO RD	5	300	PVC	1995	80	2075	2,763	60	79	-
Mount Forest: - Water Distribution	SLIGO RD	14	300	PVC	1995	80	2075	8,590	60	247	-
Mount Forest: - Water Distribution	SLIGO RD	1	300	PVC	1995	80	2075	712	60	20	-
Mount Forest: - Water Distribution	SLIGO RD	4	300	PVC	1995	80	2075	2,333	60	67	-
Mount Forest: - Water Distribution	SLIGO RD	1	300	PVC	1995	80	2075	614	60	18	-
Mount Forest: - Water Distribution	SLIGO RD	164	300	PVC	1995	80	2075	100,699	60	2,897	-
Mount Forest: - Water Distribution	SLIGO RD	1	300	PVC	1995	80	2075	694	60	20	-
Mount Forest: - Water Distribution	SLIGO RD	0	300	PVC	1995	80	2075	301	60	9	-
Mount Forest: - Water Distribution	SLIGO RD	1	300	PVC	1995	80	2075	700	60	20	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	SLIGO RD	164	300	PVC	1995	80	2075	100,693	60	2,897	-
Mount Forest: - Water Distribution	SLIGO RD	0	300	PVC	1995	80	2075	301	60	9	-
Mount Forest: - Water Distribution	SLIGO RD	1	300	PVC	1995	80	2075	448	60	13	-
Mount Forest: - Water Distribution	SLIGO RD	1	300	PVC	1995	80	2075	731	60	21	-
Mount Forest: - Water Distribution	SLIGO RD	6	300	PVC	1995	80	2075	3,807	60	110	-
Mount Forest: - Water Distribution	SLIGO RD	152	300	PVC	1995	80	2075	93,123	60	2,679	-
Mount Forest: - Water Distribution	SLIGO RD	3	300	PVC	1995	80	2075	1,566	60	45	-
Mount Forest: - Water Distribution	SLIGO RD	13	300	PVC	1995	80	2075	8,037	60	231	-
Mount Forest: - Water Distribution	SLIGO RD	19	300	PVC	1995	80	2075	11,451	60	329	-
Mount Forest: - Water Distribution	SLIGO RD	67	300	PVC	1995	80	2075	40,830	60	1,175	-
Mount Forest: - Water Distribution	SLIGO RD	202	300	PVC	1995	80	2075	123,748	60	3,560	-
Mount Forest: - Water Distribution	SLIGO RD	7	300	PVC	1995	80	2075	4,464	60	128	-
Mount Forest: - Water Distribution	SLIGO RD	14	300	PVC	1995	80	2075	8,412	60	242	-
Mount Forest: - Water Distribution	SLIGO RD	60	300	PVC	1995	80	2075	36,814	60	1,059	-
Mount Forest: - Water Distribution	SLIGO RD	8	300	PVC	1995	80	2075	4,636	60	133	-
Mount Forest: - Water Distribution	SLIGO RD	1	300	PVC	1995	80	2075	368	60	11	-
Mount Forest: - Water Distribution	SLIGO RD	1	300	PVC	1995	80	2075	442	60	13	-
Mount Forest: - Water Distribution	SLIGO RD	13	300	PVC	1995	80	2075	8,049	60	232	-
Mount Forest: - Water Distribution	SLIGO RD	2	300	PVC	1995	80	2075	1,296	60	37	-
Mount Forest: - Water Distribution	SLIGO RD E	20	300	PVC	1995	80	2075	12,181	60	350	-
Mount Forest: - Water Distribution	SLIGO RD E	16	300	PVC	1995	80	2075	9,824	60	283	-
Mount Forest: - Water Distribution	SLIGO RD E	6	300	PVC	1995	80	2075	3,788	60	109	-
Mount Forest: - Water Distribution	SOUTH WATER ST	104	100	CI	1975	80	2055	55,197	40	2,018	-
Mount Forest: - Water Distribution	SOUTH WATER ST	173	100	CI	1975	80	2055	92,249	40	3,372	-
Mount Forest: - Water Distribution	SOUTH WATER ST	157	100	CI	1975	80	2055	83,610	40	3,056	-
Mount Forest: - Water Distribution	SOUTH WATER ST	6	100	CI	1975	80	2055	3,144	40	115	-
Mount Forest: - Water Distribution	SOUTH WATER ST	266	100	CI	1975	80	2055	141,562	40	5,175	-
Mount Forest: - Water Distribution	SOUTH WATER ST	9	100	CI	1975	80	2055	4,972	40	182	-
Mount Forest: - Water Distribution	SOUTH WATER ST	17	100	CI	1975	80	2055	9,006	40	329	-
Mount Forest: - Water Distribution	SOUTH WATER ST	3	150	PVC	1995	80	2075	1,689	60	49	-
Mount Forest: - Water Distribution	SOUTH WATER ST	1	250	PVC	1995	80	2075	414	60	12	-
Mount Forest: - Water Distribution	SOUTH WATER ST	1	250	PVC	1995	80	2075	378	60	11	-
Mount Forest: - Water Distribution	SOUTH WATER ST	49	250	PVC	1995	80	2075	28,678	60	825	-
Mount Forest: - Water Distribution	SOUTH WATER ST	78	250	PVC	1995	80	2075	45,989	60	1,323	-
Mount Forest: - Water Distribution	SOUTH WATER ST	1	250	PVC	1995	80	2075	360	60	10	-
Mount Forest: - Water Distribution	VICTORIA ST	7	250	PVC	1995	80	2075	4,035	60	116	-
Mount Forest: - Water Distribution	VICTORIA ST	140	250	PVC	1995	80	2075	82,460	60	2,372	-
Mount Forest: - Water Distribution	VICTORIA ST	94	250	PVC	1995	80	2075	55,696	60	1,602	-
Mount Forest: - Water Distribution	VICTORIA ST	12	250	PVC	1995	80	2075	7,208	60	207	-
Mount Forest: - Water Distribution	WATERLOO ST	23	100	PVC	2012	80	2092	12,262	77	313	-
Mount Forest: - Water Distribution	WATERLOO ST	3	100	PVC	2012	80	2092	1,439	77	37	-
Mount Forest: - Water Distribution	WATERLOO ST	15	100	PVC	2012	80	2092	8,100	77	207	-
Mount Forest: - Water Distribution	WATERLOO ST	287	100	PVC	2012	80	2092	152,939	77	3,910	-
Mount Forest: - Water Distribution	WATERLOO ST	6	100	PVC	2012	80	2092	3,235	77	83	-
Mount Forest: - Water Distribution	WATERLOO ST	48	100	PVC	2012	80	2092	25,477	77	651	-
Mount Forest: - Water Distribution	WATERLOO ST	110	100	PVC	2012	80	2092	58,442	77	1,494	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	WATERLOO ST	7	100	PVC	2012	80	2092	3,762	77	96	-
Mount Forest: - Water Distribution	WATERLOO ST	84	150	PVC	1995	80	2075	44,507	60	1,280	-
Mount Forest: - Water Distribution	WATERLOO ST	112	150	PVC	1995	80	2075	59,945	60	1,724	-
Mount Forest: - Water Distribution	WATERLOO ST	15	150	PVC	1995	80	2075	8,111	60	233	-
Mount Forest: - Water Distribution	WATERLOO ST	119	150	PVC	1995	80	2075	63,446	60	1,825	-
Mount Forest: - Water Distribution	WATERLOO ST	7	150	PVC	1995	80	2075	3,800	60	109	-
Mount Forest: - Water Distribution	WATERLOO ST	118	150	PVC	1995	80	2075	62,956	60	1,811	-
Mount Forest: - Water Distribution	WATERLOO ST	15	150	PVC	1995	80	2075	7,924	60	228	-
Mount Forest: - Water Distribution	WATERLOO ST	119	150	PVC	1995	80	2075	63,414	60	1,824	-
Mount Forest: - Water Distribution	WATERLOO ST	6	150	PVC	1995	80	2075	3,363	60	97	-
Mount Forest: - Water Distribution	WATERLOO ST	8	150	PVC	1995	80	2075	4,412	60	127	-
Mount Forest: - Water Distribution	WATERLOO ST	0	150	PVC	1995	80	2075	202	60	6	-
Mount Forest: - Water Distribution	WATERLOO ST	0	150	PVC	1995	80	2075	192	60	6	-
Mount Forest: - Water Distribution	WEBER ST	3	150	DI	1985	50	2035	1,732	20	106	-
Mount Forest: - Water Distribution	WEBER ST	5	150	DI	1985	50	2035	2,489	20	152	-
Mount Forest: - Water Distribution	WEBER ST	183	150	DI	1985	50	2035	97,359	20	5,954	-
Mount Forest: - Water Distribution	WELLINGTON ST	14	150	CI	1975	80	2055	7,301	40	267	-
Mount Forest: - Water Distribution	WELLINGTON ST	14	150	CI	1975	80	2055	7,194	40	263	-
Mount Forest: - Water Distribution	WELLINGTON ST	6	150	CI	1975	80	2055	3,304	40	121	-
Mount Forest: - Water Distribution	WELLINGTON ST	7	150	CI	1975	80	2055	3,730	40	136	-
Mount Forest: - Water Distribution	WELLINGTON ST	7	150	CI	1975	80	2055	3,837	40	140	-
Mount Forest: - Water Distribution	WELLINGTON ST	7	150	CI	1975	80	2055	3,837	40	140	-
Mount Forest: - Water Distribution	WELLINGTON ST	14	150	CI	1975	80	2055	7,301	40	267	-
Mount Forest: - Water Distribution	WELLINGTON ST	14	150	CI	1975	80	2055	7,354	40	269	-
Mount Forest: - Water Distribution	WELLINGTON ST	7	150	CI	1975	80	2055	3,906	40	143	-
Mount Forest: - Water Distribution	WELLINGTON ST	138	150	CI	1975	80	2055	73,715	40	2,695	-
Mount Forest: - Water Distribution	WELLINGTON ST	128	150	CI	1975	80	2055	67,959	40	2,484	-
Mount Forest: - Water Distribution	WELLINGTON ST	17	150	CI	1975	80	2055	9,192	40	336	-
Mount Forest: - Water Distribution	WELLINGTON ST	19	150	CI	1975	80	2055	10,109	40	370	-
Mount Forest: - Water Distribution	WELLINGTON ST	32	150	CI	1975	80	2055	16,919	40	618	-
Mount Forest: - Water Distribution	WELLINGTON ST	4	150	CI	1975	80	2055	2,233	40	82	-
Mount Forest: - Water Distribution	WELLINGTON ST	141	150	CI	1975	80	2055	74,972	40	2,741	-
Mount Forest: - Water Distribution	WELLINGTON ST	4	150	CI	1975	80	2055	2,073	40	76	-
Mount Forest: - Water Distribution	WELLINGTON ST	1	150	CI	1975	80	2055	346	40	13	-
Mount Forest: - Water Distribution	WELLINGTON ST	4	150	CI	1975	80	2055	2,052	40	75	-
Mount Forest: - Water Distribution	WELLINGTON ST	13	200	DI	1985	50	2035	7,156	20	438	-
Mount Forest: - Water Distribution	WELLINGTON ST	6	150	DI	1985	50	2035	2,931	20	179	-
Mount Forest: - Water Distribution	WELLINGTON ST	115	150	DI	1985	50	2035	61,373	20	3,753	-
Mount Forest: - Water Distribution	WELLINGTON ST	93	150	DI	1985	50	2035	49,681	20	3,038	-
Mount Forest: - Water Distribution	WELLINGTON ST	22	150	DI	1985	50	2035	11,729	20	717	-
Mount Forest: - Water Distribution	WELLINGTON ST	85	150	DI	1985	50	2035	45,344	20	2,773	-
Mount Forest: - Water Distribution	WELLINGTON ST	9	150	DI	1985	50	2035	4,716	20	288	-
Mount Forest: - Water Distribution	WELLINGTON ST	363	150	DI	1985	50	2035	193,535	20	11,836	-
Mount Forest: - Water Distribution	WELLINGTON ST	17	150	DI	1985	50	2035	8,798	20	538	-
Mount Forest: - Water Distribution	WELLINGTON ST	3	150	DI	1985	50	2035	1,631	20	100	-
Mount Forest: - Water Distribution	WELLINGTON ST	14	150	PVC	1995	80	2075	7,365	60	212	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Water Distribution	WELLINGTON ST	4	150	PVC	1995	80	2075	2,132	60	61	-
Mount Forest: - Water Distribution	WELLINGTON ST	13	150	PVC	1995	80	2075	7,061	60	203	-
Mount Forest: - Water Distribution	WELLINGTON ST	6	150	PVC	1995	80	2075	3,160	60	91	-
Mount Forest: - Water Distribution	WELLINGTON ST	134	150	PVC	1995	80	2075	71,461	60	2,056	-
Mount Forest: - Water Distribution	WELLINGTON ST	241	150	PVC	1995	80	2075	128,160	60	3,687	-
Mount Forest: - Water Distribution	WELLINGTON ST	20	150	PVC	1995	80	2075	10,695	60	308	-
Mount Forest: - Water Distribution	WELLINGTON ST	14	200	PVC	1995	80	2075	7,868	60	226	-
Mount Forest: - Water Distribution	WELLINGTON ST	4	200	PVC	1995	80	2075	1,968	60	57	-
Mount Forest: - Water Distribution	WELLINGTON ST	3	200	PVC	1995	80	2075	1,579	60	45	-
Mount Forest: - Water Distribution	WELLINGTON ST	1	200	PVC	1995	80	2075	400	60	12	-
Mount Forest: - Water Distribution	WELLINGTON ST	134	200	PVC	1995	80	2075	74,768	60	2,151	-
Mount Forest: - Water Distribution	WENDYS LN	19	150	PVC	1995	80	2075	9,981	60	287	-
Mount Forest: - Water Distribution	WENDYS LN	3	150	PVC	1995	80	2075	1,513	60	44	-
Mount Forest: - Water Distribution	WENDYS LN	160	150	PVC	1995	80	2075	85,129	60	2,449	-
Mount Forest: - Water Distribution	WENDYS LN	3	150	PVC	1995	80	2075	1,465	60	42	-
Mount Forest: - Water Distribution	WENDYS LN	30	150	PVC	1995	80	2075	16,061	60	462	-
Mount Forest: - Water Distribution	WILLIAM ST	176	100	CI	1932	80	2015	93,607	0	in capital budget	93,607
Mount Forest: - Water Distribution	WILLIAM ST	18	100	CI	1932	80	2015	9,629	0	in capital budget	9,629
Mount Forest: - Water Distribution	WILLIAM ST	7	100	CI	1932	80	2015	3,666	0	in capital budget	3,666
Mount Forest: - Water Distribution	WILLIAM ST	15	100	CI	1932	80	2015	7,929	0	in capital budget	7,929
Mount Forest: - Water Distribution	WILLIAM ST	16	100	CI	1932	80	2015	8,420	0	in capital budget	8,420
Mount Forest: - Water Distribution	WILLIAM ST	4	150	DI	1978	50	2028	1,945	13	171	-
Mount Forest: - Water Distribution	WILLIAM ST	181	150	DI	1978	50	2028	96,533	13	8,506	-
Mount Forest: - Water Distribution	WILLIAM ST	5	150	DI	1978	50	2028	2,910	13	256	-
Mount Forest: - Water Distribution	YORK ST	17	100	CI	1932	80	2015	8,969	0	in capital budget	8,969
Mount Forest: - Water Distribution	YORK ST	118	100	CI	1932	80	2015	62,972	0	in capital budget	62,972
Mount Forest: - Water Distribution	YORK ST	8	100	CI	1932	80	2015	4,364	0	in capital budget	4,364
Mount Forest: - Water Distribution	YORK ST	1	100	CI	1932	80	2015	623	0	in capital budget	623
Mt. Forest	Mt. Forest	74	300	AC	1972	50	2022	45,435	7	7,020	-
Mt. Forest	Mt. Forest	1,411	250	AC	1992	50	2042	833,637	27	40,259	-
Mt. Forest	Mt. Forest	12	200	AC	1992	50	2042	6,673	27	322	-
Mt. Forest	Mt. Forest	3,133	250	AC	1992	50	2042	1,851,017	27	89,391	-
Mt. Forest	Mt. Forest	247	250	AC	1992	50	2042	145,931	27	7,047	-
Mt. Forest	Mt. Forest	4,577	150	AC	1952	50	2015	2,439,038	0	in capital budget	2,439,038
Mt. Forest	Mt. Forest	4,680	150	AC	1972	50	2022	2,493,926	7	385,341	-
Mt. Forest	Mt. Forest	22	150	AC	1952	50	2015	11,724	0	in capital budget	11,724
Mt. Forest	Mt. Forest	446	200	AC	1972	50	2022	248,002	7	38,319	-
Mt. Forest	Mt. Forest	572	150	AC	1972	50	2022	304,813	7	47,097	-
Mt. Forest	Mt. Forest	3,662	150	AC	1972	50	2022	1,951,444	7	301,521	-
Mt. Forest	Mt. Forest	36	200	AC	1972	50	2022	20,018	7	3,093	-
Mt. Forest	Mt. Forest	165	250	AC	1992	50	2042	97,484	27	4,708	-
Mt. Forest	Mt. Forest	3,515	150	AC	1992	50	2042	1,873,109	27	90,458	-
Mt. Forest	Mt. Forest	7,799	150	AC	1992	50	2042	4,156,010	27	200,707	-
Mt. Forest	Mt. Forest	61	200	AC	1992	50	2042	33,920	27	1,638	-
Mt. Forest	Mt. Forest	1,063	250	AC	1992	50	2042	628,034	27	30,330	-
Mt. Forest	Mt. Forest	135	150	AC	1992	50	2042	71,940	27	3,474	-

Appendix A-3
Township of Wellington-North
Mt Forest Water Distribution

Location	*Street*	*Length (m)*	*Diameter (mm)*	*Material*	*Year Installed*	*Estimated Life*	*Replacement Year*	*Total Main Replacement Costs*	*Years until Replacement*	*Annual Lifecycle Contribution*	*Amount to be included in 6 year Forecast*
Mt. Forest	Mt. Forest	20	150	AC	1992	50	2042	10,658	27	515	-
Mt. Forest	Mt. Forest	81	150	AC	1972	50	2022	43,164	7	6,669	-
Mt. Forest	Mt. Forest	76	150	AC	1992	50	2042	40,500	27	1,956	-
Mt. Forest	Mt. Forest	317	150	AC	1972	50	2022	168,926	7	26,101	-
Mt. Forest	Mt. Forest	200	150	AC	1972	50	2022	106,578	7	16,468	-
Mt. Forest	Mt. Forest	77	150	AC	1975	50	2025	41,033	10	4,568	-
Mt. Forest	Mt. Forest	906	150	AC	1967	50	2017	482,798	2	in capital budget	482,798
Mt. Forest	Mt. Forest	560	200	AC	1952	50	2015	311,393	0	in capital budget	311,393
Mt. Forest	Mt. Forest	847	250	AC	1972	50	2022	500,419	7	77,321	-
Mt. Forest	Mt. Forest	480	250	AC	1952	50	2015	283,590	0	in capital budget	283,590
Total		**71,719**						**39,492,638**		**2,190,375**	**4,052,785**

Appendix B – Wastewater System Inventory Data

Appendix B-1
Township of Wellington-North
Wastewater Facilities

Item	*Location*	*Year Installed*	*Estimated Life*	*Replacement Year*	*Replacement Cost*	*Years until Replacement*	*Annual Lifecycle Contribution*	*Amount to be included in 6 year Forecast*
Wastewater:								
Arthur	Preliminary Treatment	1990	20	2015	515,513	0	in capital budget	515,513
Arthur	Extended Aeration	1990	20	2015	2,945,956	0	in capital budget	2,945,956
Arthur	Phosphorus Removal	1990	10	2015	74,141	0	in capital budget	74,141
Arthur	Filtration	1990	50	2040	1,473,557	25	75,476	-
Arthur	Aerobic Digestion	1990	20	2015	1,105,168	0	in capital budget	1,105,168
Arthur	Solids Storage	1990	20	2015	1,105,168	0	in capital budget	1,105,168
Arthur	UV Disinfection	1990	20	2015	147,124	0	in capital budget	147,124
Arthur	Diesel Generator	1990	30	2020	125,113	5	in capital budget	125,113
Frederick St	Pumphouse	1990	50	2040	127,430	25	6,527	-
Frederick St	2 Pumps	1990	25	2015	57,923	0	in capital budget	57,923
Frederick St	Diesel Generator	1990	30	2020	110,053	5	in capital budget	110,053
Wells Street	2 Pumps	1989	25	2015	57,923	0	in capital budget	57,923
Wells Street	Diesel Generator	1990	30	2020	110,053	5	in capital budget	110,053
Arthur	System Telemetry	1990	30	2020	147,124	5	in capital budget	147,124
Mount Forest								
Cork St	2 Pumps	1987	25	2015	46,338	0	in capital budget	46,338
Durham Street	Pumphouse	1968	50	2018	127,430	3	in capital budget	127,430
Durham Street	2 Pumps	1998	20	2018	57,923	3	in capital budget	57,923
Durham Street	Diesel Generator	1978	40	2018	110,053	3	in capital budget	110,053
Perth Street	2 Pumps	1999	13	2015	11,585	0	in capital budget	11,585
Total					**8,455,576**		**82,003**	**6,854,589**

Appendix B-2
Township of Wellington-North
Arthur Lagoons

Item	*Year Installed*	*Estimated Life*	*Replacement Year*	*Replacement Cost*	*Years until Replacement*	*Annual Lifecycle Contribution*	*Amount to be included in 6 year Forecast*
Wastewater:							
Lagoons:							
Arthur	1962	100	2062	1,227,964	47	40,545	-
Arthur	1972	100	2072	1,227,964	57	36,300	-
Arthur	1975	100	2075	1,227,964	60	35,326	-
Total				**3,683,893**		**112,171**	**0**

Appendix B-3
Township of Wellington-North
Arthur Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur	Arthur	7,331	200	AC	1972	50	2022	3,397,059	7	524,886	-
Arthur	Arthur	51	150	AC	1972	50	2022	23,633	7	3,652	-
Arthur	Arthur	95	100	PVC	1992	75	2067	44,021	52	1,369	-
Arthur	Arthur	2,318	200	PVC	1992	75	2067	1,074,121	52	33,415	-
Arthur	Arthur	471	300	PVC	1992	75	2067	245,535	52	7,638	-
Arthur	Arthur	164	300	AC	1972	50	2022	85,494	7	13,210	-
Arthur	Arthur	148	300	CSP	1972	50	2022	77,153	7	11,921	-
Arthur	Arthur	290	200	Concrete	1972	50	2022	134,381	7	20,763	-
Arthur	Arthur	658	250	Concrete	1972	50	2022	327,774	7	50,645	-
Arthur	Arthur	51	300	CI	1972	80	2052	26,587	37	1,024	-
Arthur	Arthur	882	375	PVC	1992	75	2067	500,662	52	15,575	-
Arthur	Arthur	813	600	Concrete Outfall	1972	50	2022	480,331	7	74,217	-
Arthur	Arthur	161	450	PVC	1972	75	2047	91,391	32	3,894	-
Arthur	Arthur	2,071	200	AC	1972	50	2022	959,666	7	148,280	-
Arthur	Arthur	71	250	AC	1972	50	2022	35,368	7	5,465	-
Arthur	Arthur	298	450	PVC	1992	75	2067	169,158	52	5,262	-
Arthur	Arthur	29	300	PVC	1992	75	2067	15,118	52	470	-
Arthur	Arthur	448	600	Concrete	1992	50	2042	264,684	27	12,782	-
Arthur	Arthur	400	300	PVC	1995	75	2070	208,522	55	6,286	-
Arthur	Frederick Street (AV)	680	250	PVC	1990	50	2040	338,733	25	17,350	-
Arthur	Frederick Street (AV)	50	250	PVC	1990	100	2090	24,907	75	644	-
Arthur	Wells Street (AV)	50	150	PVC	1989	100	2089	23,169	74	603	-
Arthur	Wells Street (AV)	628	150	PVC	1969	50	2019	291,004	4	in capital budget	291,004
Arthur	Wells Street (AV)	442	150	PVC	1989	50	2039	204,815	24	10,829	-
Arthur	WPCP FM to Lagoons	496	250	PVC	1990	75	2065	247,076	50	7,863	-
Arthur	WPCP FM to Lagoons	1,281	250	AC	1962	50	2015	638,113	0	in capital budget	638,113
Arthur	WPCP FM to Lagoons	931	250	DI	1975	50	2025	463,765	10	51,629	-
Arthur - Sanitary Forcemains	Frederick St (Edward to Francis)	163	250	PVC	2007	80	2087	81,196	72	2,138	-
Arthur - Sanitary Forcemains	Frederick St (George to Edward)	169	250	PVC	2007	80	2087	84,185	72	2,216	-
Arthur - Sanitary Sewer	Catharine St. & Charles St.	225	200	PVC	2009	80	2089	104,261	74	2,712	-
Arthur - Sanitary Sewer	County # 109 & Hwy. 6 (to Charles St)	279	200	PVC	2007	80	2087	129,284	72	3,404	-
Arthur - Sanitary Sewer	Frederick St (George to Edward)	266	200	PVC	2006	80	2086	123,260	71	3,266	-
Arthur - Sanitary Sewer	Frederick St (George to Edward)	172	300	PVC	2007	80	2087	89,665	72	2,361	-
Arthur-Sanitary Forcemains	ELIZA ST	6	200	AC	1975	50	2025	2,752	10	306	-
Arthur-Sanitary Forcemains	ELIZA ST	21	200	AC	1975	50	2025	9,750	10	1,085	-
Arthur-Sanitary Forcemains	FORCEMAIN	50	200	PVC	1995	75	2070	23,169	55	698	-
Arthur-Sanitary Forcemains	FORCEMAIN	1	250	PVC	1995	75	2070	692	55	21	-
Arthur-Sanitary Forcemains	FORCEMAIN	7	250	PVC	1995	75	2070	3,442	55	104	-
Arthur-Sanitary Forcemains	FORCEMAIN	8	200	PVC	1995	75	2070	3,568	55	108	-
Arthur-Sanitary Forcemains	FORCEMAIN	27	200	PVC	1995	75	2070	12,711	55	383	-
Arthur-Sanitary Forcemains	FORCEMAIN	28	200	PVC	1995	75	2070	13,026	55	393	-
Arthur-Sanitary Forcemains	FORCEMAIN	35	200	PVC	1995	75	2070	16,218	55	489	-
Arthur-Sanitary Forcemains	FORCEMAIN	35	250	PVC	1995	75	2070	17,455	55	526	-
Arthur-Sanitary Forcemains	FORCEMAIN	40	200	PVC	1995	75	2070	18,591	55	560	-
Arthur-Sanitary Forcemains	FORCEMAIN	41	250	PVC	1995	75	2070	20,244	55	610	-

Appendix B-3
Township of Wellington-North
Arthur Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur-Sanitary Forcemains	FORCEMAIN	70	200	PVC	1995	75	2070	32,279	55	973	-
Arthur-Sanitary Forcemains	FORCEMAIN	70	200	PVC	1995	75	2070	32,381	55	976	-
Arthur-Sanitary Forcemains	FORCEMAIN	73	200	PVC	1995	75	2070	33,952	55	1,023	-
Arthur-Sanitary Forcemains	FORCEMAIN	74	250	PVC	1995	75	2070	36,613	55	1,104	-
Arthur-Sanitary Forcemains	FORCEMAIN	117	200	PVC	1995	75	2070	54,063	55	1,630	-
Arthur-Sanitary Forcemains	FORCEMAIN	117	200	PVC	1995	75	2070	54,420	55	1,640	-
Arthur-Sanitary Forcemains	FORCEMAIN	121	200	PVC	1995	75	2070	56,287	55	1,697	-
Arthur-Sanitary Forcemains	FORCEMAIN	122	200	PVC	1995	75	2070	56,329	55	1,698	-
Arthur-Sanitary Forcemains	FREDERICK ST	4	250	PVC	1995	75	2070	1,958	55	59	-
Arthur-Sanitary Forcemains	FREDERICK ST	21	250	PVC	1995	75	2070	10,655	55	321	-
Arthur-Sanitary Forcemains	FREDERICK ST	22	200	AC	1975	50	2025	9,995	10	1,113	-
Arthur-Sanitary Forcemains	FREDERICK ST	23	250	PVC	1995	75	2070	11,328	55	341	-
Arthur-Sanitary Forcemains	FREDERICK ST	80	250	PVC	1995	75	2070	39,990	55	1,205	-
Arthur-Sanitary Forcemains	FREDERICK ST	84	250	PVC	1995	75	2070	41,669	55	1,256	-
Arthur-Sanitary Forcemains	FREDERICK ST	135	200	AC	1975	50	2025	62,770	10	6,988	-
Arthur-Sanitary Forcemains	FREDERICK ST	169	200	AC	1975	50	2025	78,117	10	8,697	-
Arthur-Sanitary Forcemains	FREDERICK ST	171	250	PVC	1995	75	2070	85,296	55	2,571	-
Arthur-Sanitary Forcemains	FREDERICK ST	545	200	AC	1975	50	2025	252,400	10	28,099	-
Arthur-Sanitary Forcemains	GORDON AVE	3	200	DI	1962	50	2015	1,274	0	in capital budget	1,274
Arthur-Sanitary Forcemains	GORDON AVE	3	200	DI	1962	50	2015	1,311	0	in capital budget	1,311
Arthur-Sanitary Forcemains	GORDON AVE	4	200	AC	1962	50	2015	1,789	0	in capital budget	1,789
Arthur-Sanitary Forcemains	GORDON AVE	12	200	DI	1962	50	2015	5,644	0	in capital budget	5,644
Arthur-Sanitary Forcemains	GORDON AVE	19	200	AC	1962	50	2015	8,614	0	in capital budget	8,614
Arthur-Sanitary Forcemains	GORDON AVE	36	200	DI	1962	50	2015	16,469	0	in capital budget	16,469
Arthur-Sanitary Forcemains	GORDON AVE	37	200	AC	1962	50	2015	16,992	0	in capital budget	16,992
Arthur-Sanitary Forcemains	GORDON AVE	43	200	AC	1962	50	2015	19,865	0	in capital budget	19,865
Arthur-Sanitary Forcemains	GORDON AVE	50	200	AC	1962	50	2015	22,998	0	in capital budget	22,998
Arthur-Sanitary Forcemains	GORDON AVE	72	200	AC	1962	50	2015	33,197	0	in capital budget	33,197
Arthur-Sanitary Forcemains	GORDON AVE	106	200	DI	1962	50	2015	49,193	0	in capital budget	49,193
Arthur-Sanitary Forcemains	GORDON AVE	190	200	AC	1962	50	2015	88,228	0	in capital budget	88,228
Arthur-Sanitary Forcemains	GORDON AVE	1	200	DI	1985	50	2035	361	20	22	-
Arthur-Sanitary Forcemains	GORDON AVE	3	200	DI	1985	50	2035	1,302	20	80	-
Arthur-Sanitary Forcemains	GORDON AVE	29	200	DI	1985	50	2035	13,531	20	827	-
Arthur-Sanitary Forcemains	GORDON AVE	36	200	DI	1985	50	2035	16,691	20	1,021	-
Arthur-Sanitary Forcemains	LAGOON	4	200	CI	1975	80	2055	1,881	40	69	-
Arthur-Sanitary Forcemains	LAGOON	4	200	CI	1975	80	2055	1,895	40	69	-
Arthur-Sanitary Forcemains	LAGOON	102	200	CI	1975	80	2055	47,057	40	1,720	-
Arthur-Sanitary Forcemains	LAGOON	103	200	CI	1975	80	2055	47,617	40	1,741	-
Arthur-Sanitary Forcemains	LAGOON	119	200	AC	1975	50	2025	55,152	10	6,140	-
Arthur-Sanitary Forcemains	OCONNOR AVE	95	200	AC	1975	50	2025	43,799	10	4,876	-
Arthur-Sanitary Forcemains	PRESTON ST	50	250	PVC	1995	75	2070	24,907	55	751	-
Arthur-Sanitary Forcemains	SMITH ST	6	150	AC	1975	50	2025	2,600	10	289	-
Arthur-Sanitary Forcemains	SMITH ST	11	200	AC	1975	50	2025	5,324	10	593	-
Arthur-Sanitary Forcemains	SMITH ST	68	200	AC	1975	50	2025	31,334	10	3,488	-
Arthur-Sanitary Forcemains	SMITH ST	76	200	AC	1975	50	2025	35,426	10	3,944	-

Appendix B-3
Township of Wellington-North
Arthur Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur-Sanitary Forcemains	SMITH ST	86	200	AC	1975	50	2025	39,939	10	4,446	-
Arthur-Sanitary Forcemains	SMITH ST	86	200	AC	1975	50	2025	40,078	10	4,462	-
Arthur-Sanitary Forcemains	SMITH ST	157	200	AC	1975	50	2025	72,746	10	8,099	-
Arthur-Sanitary Forcemains	WASTE POND	3	300	DI	1985	50	2035	1,809	20	111	-
Arthur-Sanitary Forcemains	WASTE POND	7	300	DI	1985	50	2035	3,441	20	210	-
Arthur-Sanitary Forcemains	WASTE POND	39	300	DI	1985	50	2035	20,503	20	1,254	-
Arthur-Sanitary Forcemains	WASTE POND	64	300	DI	1985	50	2035	33,348	20	2,039	-
Arthur-Sanitary Forcemains	WASTE POND	88	300	DI	1985	50	2035	45,755	20	2,798	-
Arthur-Sanitary Forcemains	WASTE POND	129	300	DI	1985	50	2035	67,342	20	4,118	-
Arthur-Sanitary Forcemains	WASTE POND	149	300	DI	1985	50	2035	77,456	20	4,737	-
Arthur-Sanitary Forcemains	WASTE POND	230	300	DI	1985	50	2035	120,010	20	7,339	-
Arthur-Sanitary Forcemains	WELLS ST	3	150	AC	1975	50	2025	1,270	10	141	-
Arthur-Sanitary Forcemains	WELLS ST	4	150	AC	1975	50	2025	1,895	10	211	-
Arthur-Sanitary Forcemains	WELLS ST	6	150	AC	1975	50	2025	2,785	10	310	-
Arthur-Sanitary Forcemains	WELLS ST	11	150	AC	1975	50	2025	5,093	10	567	-
Arthur-Sanitary Forcemains	WELLS ST	137	150	AC	1975	50	2025	63,451	10	7,064	-
Arthur-Sanitary Forcemains	WELLS ST	441	250	PVC	1995	75	2070	219,862	55	6,627	-
Arthur-Sanitary Mains	ADELAIDE ST	81	200	AC	1975	50	2025	37,525	10	4,177	-
Arthur-Sanitary Mains	ADELAIDE ST	94	200	AC	1975	50	2025	43,618	10	4,856	-
Arthur-Sanitary Mains	ADELAIDE ST	100	200	AC	1975	50	2025	46,310	10	5,156	-
Arthur-Sanitary Mains	ADELAIDE ST	101	200	AC	1975	50	2025	46,575	10	5,185	-
Arthur-Sanitary Mains	ANDREW ST	79	200	PVC	1995	75	2070	36,528	55	1,101	-
Arthur-Sanitary Mains	ANDREW ST	86	200	PVC	1995	75	2070	39,846	55	1,201	-
Arthur-Sanitary Mains	ANDREWS ST	4	200	PVC	1995	75	2070	1,854	55	56	-
Arthur-Sanitary Mains	BELLEFIELD CR	19	200	AC	1975	50	2025	8,763	10	976	-
Arthur-Sanitary Mains	BELLEFIELD CR	69	200	AC	1975	50	2025	31,881	10	3,549	-
Arthur-Sanitary Mains	BELLEFIELD CR	77	200	AC	1975	50	2025	35,792	10	3,985	-
Arthur-Sanitary Mains	BELLEFIELD CR	81	200	AC	1975	50	2025	37,390	10	4,163	-
Arthur-Sanitary Mains	BELLEFIELD CR	88	200	AC	1975	50	2025	40,588	10	4,518	-
Arthur-Sanitary Mains	CARROL ST	57	200	PVC	1995	75	2070	26,237	55	791	-
Arthur-Sanitary Mains	CARROL ST	94	200	PVC	1995	75	2070	43,488	55	1,311	-
Arthur-Sanitary Mains	CARROL ST	101	200	PVC	1995	75	2070	46,616	55	1,405	-
Arthur-Sanitary Mains	CHARLES ST	18	200	AC	1975	50	2025	8,267	10	920	-
Arthur-Sanitary Mains	CHARLES ST	39	200	AC	1975	50	2025	18,090	10	2,014	-
Arthur-Sanitary Mains	CHARLES ST	54	200	AC	1975	50	2025	25,106	10	2,795	-
Arthur-Sanitary Mains	CHARLES ST	54	200	AC	1975	50	2025	25,240	10	2,810	-
Arthur-Sanitary Mains	CHARLES ST	55	200	AC	1975	50	2025	25,264	10	2,813	-
Arthur-Sanitary Mains	CHARLES ST	58	200	AC	1975	50	2025	26,885	10	2,993	-
Arthur-Sanitary Mains	CLARKE ST	39	200	AC	1975	50	2025	18,109	10	2,016	-
Arthur-Sanitary Mains	CLARKE ST	50	200	AC	1975	50	2025	23,350	10	2,599	-
Arthur-Sanitary Mains	CLARKE ST	92	200	AC	1975	50	2025	42,474	10	4,728	-
Arthur-Sanitary Mains	CLARKE ST	96	200	AC	1975	50	2025	44,485	10	4,952	-
Arthur-Sanitary Mains	CLARKE ST	98	200	AC	1975	50	2025	45,416	10	5,056	-
Arthur-Sanitary Mains	CLARKE ST	111	200	AC	1975	50	2025	51,250	10	5,705	-
Arthur-Sanitary Mains	CONESTOGA ST	20	200	AC	1975	50	2025	9,416	10	1,048	-

Appendix B-3
Township of Wellington-North
Arthur Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur-Sanitary Mains	CONESTOGA ST	39	200	AC	1975	50	2025	17,914	10	1,994	-
Arthur-Sanitary Mains	CONESTOGA ST	55	200	AC	1975	50	2025	25,472	10	2,836	-
Arthur-Sanitary Mains	CONESTOGA ST	55	200	AC	1975	50	2025	25,690	10	2,860	-
Arthur-Sanitary Mains	CONESTOGA ST	58	200	PVC	1995	75	2070	27,001	55	814	-
Arthur-Sanitary Mains	CONESTOGA ST	60	200	AC	1975	50	2025	27,831	10	3,098	-
Arthur-Sanitary Mains	CONESTOGA ST	68	200	AC	1975	50	2025	31,598	10	3,518	-
Arthur-Sanitary Mains	CONESTOGA ST	70	200	AC	1975	50	2025	32,330	10	3,599	-
Arthur-Sanitary Mains	CONESTOGA ST	80	200	AC	1975	50	2025	37,052	10	4,125	-
Arthur-Sanitary Mains	CONESTOGA ST	97	200	AC	1975	50	2025	44,832	10	4,991	-
Arthur-Sanitary Mains	DOMVILLE ST	26	200	PVC	1995	75	2070	12,141	55	366	-
Arthur-Sanitary Mains	DOMVILLE ST	68	200	AC	1975	50	2025	31,362	10	3,491	-
Arthur-Sanitary Mains	DOMVILLE ST	68	200	PVC	1995	75	2070	31,510	55	950	-
Arthur-Sanitary Mains	DOMVILLE ST	70	200	AC	1975	50	2025	32,339	10	3,600	-
Arthur-Sanitary Mains	DOMVILLE ST	72	200	AC	1975	50	2025	33,262	10	3,703	-
Arthur-Sanitary Mains	DOMVILLE ST	75	200	PVC	1995	75	2070	34,601	55	1,043	-
Arthur-Sanitary Mains	DOMVILLE ST	85	200	AC	1975	50	2025	39,388	10	4,385	-
Arthur-Sanitary Mains	DOMVILLE ST	90	200	AC	1975	50	2025	41,552	10	4,626	-
Arthur-Sanitary Mains	DOMVILLE ST	90	200	AC	1975	50	2025	41,820	10	4,656	-
Arthur-Sanitary Mains	DOMVILLE ST	94	200	PVC	1995	75	2070	43,618	55	1,315	-
Arthur-Sanitary Mains	DOMVILLE ST	95	200	PVC	1995	75	2070	44,021	55	1,327	-
Arthur-Sanitary Mains	DOMVILLE ST	98	200	PVC	1995	75	2070	45,384	55	1,368	-
Arthur-Sanitary Mains	DOMVILLE ST	101	200	AC	1975	50	2025	46,653	10	5,194	-
Arthur-Sanitary Mains	DOMVILLE ST (REAR)	55	200	PVC	1995	75	2070	25,426	55	766	-
Arthur-Sanitary Mains	DOMVILLE ST (REAR)	55	200	PVC	1995	75	2070	25,546	55	770	-
Arthur-Sanitary Mains	DOMVILLE ST (REAR)	87	200	PVC	1995	75	2070	40,245	55	1,213	-
Arthur-Sanitary Mains	DOMVILLE ST (REAR)	132	200	PVC	1995	75	2070	61,199	55	1,845	-
Arthur-Sanitary Mains	DOMVILLE ST (REAR)	135	200	PVC	1995	75	2070	62,617	55	1,887	-
Arthur-Sanitary Mains	DOMVILLE ST (REAR)	136	200	PVC	1995	75	2070	62,913	55	1,896	-
Arthur-Sanitary Mains	DUKE ST	98	200	AC	1975	50	2025	45,495	10	5,065	-
Arthur-Sanitary Mains	EASEMENT	68	200	AC	1975	50	2025	31,663	10	3,525	-
Arthur-Sanitary Mains	EASEMENT	73	200	AC	1975	50	2025	33,623	10	3,743	-
Arthur-Sanitary Mains	EASEMENT	73	200	AC	1975	50	2025	33,864	10	3,770	-
Arthur-Sanitary Mains	EASTVIEW DR	7	200	PVC	1995	75	2070	3,332	55	100	-
Arthur-Sanitary Mains	EASTVIEW DR	34	200	AC	1975	50	2025	15,528	10	1,729	-
Arthur-Sanitary Mains	EASTVIEW DR	57	200	AC	1975	50	2025	26,362	10	2,935	-
Arthur-Sanitary Mains	EASTVIEW DR	71	200	AC	1975	50	2025	32,738	10	3,645	-
Arthur-Sanitary Mains	EASTVIEW DR	82	200	AC	1975	50	2025	37,858	10	4,215	-
Arthur-Sanitary Mains	EASTVIEW DR	84	200	AC	1975	50	2025	38,938	10	4,335	-
Arthur-Sanitary Mains	EASTVIEW DR	88	200	PVC	1995	75	2070	40,778	55	1,229	-
Arthur-Sanitary Mains	EDWARD ST	53	200	AC	1975	50	2025	24,601	10	2,739	-
Arthur-Sanitary Mains	EDWARD ST	88	200	AC	1975	50	2025	40,972	10	4,561	-
Arthur-Sanitary Mains	EDWARD ST	89	200	AC	1975	50	2025	41,292	10	4,597	-
Arthur-Sanitary Mains	ELIZA ST	22	200	AC	1975	50	2025	10,083	10	1,123	-
Arthur-Sanitary Mains	ELIZA ST	28	200	AC	1975	50	2025	13,151	10	1,464	-
Arthur-Sanitary Mains	ELIZA ST	30	200	AC	1975	50	2025	13,957	10	1,554	-

Appendix B-3
Township of Wellington-North
Arthur Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur-Sanitary Mains	ELIZA ST	39	200	AC	1975	50	2025	18,035	10	2,008	-
Arthur-Sanitary Mains	ELIZA ST	47	200	AC	1975	50	2025	21,825	10	2,430	-
Arthur-Sanitary Mains	ELIZA ST	63	200	AC	1975	50	2025	29,082	10	3,238	-
Arthur-Sanitary Mains	ELIZA ST	63	200	AC	1975	50	2025	29,151	10	3,245	-
Arthur-Sanitary Mains	ELIZA ST	67	200	AC	1975	50	2025	30,959	10	3,447	-
Arthur-Sanitary Mains	ELIZA ST	71	200	AC	1975	50	2025	33,011	10	3,675	-
Arthur-Sanitary Mains	ELIZA ST	72	200	AC	1975	50	2025	33,438	10	3,723	-
Arthur-Sanitary Mains	ELIZA ST	74	200	AC	1975	50	2025	34,290	10	3,817	-
Arthur-Sanitary Mains	ELIZA ST	89	200	AC	1975	50	2025	41,153	10	4,581	-
Arthur-Sanitary Mains	ELIZA ST	90	200	AC	1975	50	2025	41,653	10	4,637	-
Arthur-Sanitary Mains	ELIZA ST	90	200	AC	1975	50	2025	41,904	10	4,665	-
Arthur-Sanitary Mains	ELIZA ST	92	200	AC	1975	50	2025	42,710	10	4,755	-
Arthur-Sanitary Mains	ELIZA ST	93	200	AC	1975	50	2025	43,048	10	4,792	-
Arthur-Sanitary Mains	FARRELL LN	41	200	PVC	1995	75	2070	19,068	55	575	-
Arthur-Sanitary Mains	FARRELL LN	93	200	PVC	1995	75	2070	43,020	55	1,297	-
Arthur-Sanitary Mains	FRANCIS ST	14	200	AC	1975	50	2025	6,668	10	742	-
Arthur-Sanitary Mains	FRANCIS ST	38	200	AC	1975	50	2025	17,590	10	1,958	-
Arthur-Sanitary Mains	FRANCIS ST	42	200	AC	1975	50	2025	19,230	10	2,141	-
Arthur-Sanitary Mains	FRANCIS ST	44	200	AC	1975	50	2025	20,551	10	2,288	-
Arthur-Sanitary Mains	FRANCIS ST	72	200	AC	1975	50	2025	33,558	10	3,736	-
Arthur-Sanitary Mains	FRANCIS ST	76	200	AC	1975	50	2025	35,060	10	3,903	-
Arthur-Sanitary Mains	FRANCIS ST	77	200	AC	1975	50	2025	35,639	10	3,968	-
Arthur-Sanitary Mains	FRANCIS ST	85	200	AC	1975	50	2025	39,290	10	4,374	-
Arthur-Sanitary Mains	FRANCIS ST	87	200	AC	1975	50	2025	40,416	10	4,499	-
Arthur-Sanitary Mains	FRANCIS ST	90	200	AC	1975	50	2025	41,505	10	4,621	-
Arthur-Sanitary Mains	FREDERICK ST	3	200	AC	1975	50	2025	1,497	10	167	-
Arthur-Sanitary Mains	FREDERICK ST	9	200	AC	1975	50	2025	4,115	10	458	-
Arthur-Sanitary Mains	FREDERICK ST	17	200	AC	1975	50	2025	7,757	10	864	-
Arthur-Sanitary Mains	FREDERICK ST	21	200	AC	1975	50	2025	9,958	10	1,109	-
Arthur-Sanitary Mains	FREDERICK ST	25	200	AC	1975	50	2025	11,385	10	1,267	-
Arthur-Sanitary Mains	FREDERICK ST	61	200	AC	1975	50	2025	28,331	10	3,154	-
Arthur-Sanitary Mains	FREDERICK ST	64	200	AC	1975	50	2025	29,670	10	3,303	-
Arthur-Sanitary Mains	FREDERICK ST	69	200	AC	1975	50	2025	32,034	10	3,566	-
Arthur-Sanitary Mains	FREDERICK ST	71	200	AC	1975	50	2025	32,715	10	3,642	-
Arthur-Sanitary Mains	FREDERICK ST	75	200	AC	1975	50	2025	34,754	10	3,869	-
Arthur-Sanitary Mains	FREDERICK ST	79	200	AC	1975	50	2025	36,830	10	4,100	-
Arthur-Sanitary Mains	FREDERICK ST	83	200	AC	1975	50	2025	38,289	10	4,263	-
Arthur-Sanitary Mains	FREDERICK ST	83	200	AC	1975	50	2025	38,428	10	4,278	-
Arthur-Sanitary Mains	FREDERICK ST	84	200	AC	1975	50	2025	39,086	10	4,351	-
Arthur-Sanitary Mains	FREDERICK ST	85	200	AC	1975	50	2025	39,211	10	4,365	-
Arthur-Sanitary Mains	FREDERICK ST	97	200	AC	1975	50	2025	44,730	10	4,980	-
Arthur-Sanitary Mains	GEORGE ST	20	200	PVC	1995	75	2070	9,054	55	273	-
Arthur-Sanitary Mains	GEORGE ST	20	200	PVC	1995	75	2070	9,189	55	277	-
Arthur-Sanitary Mains	GEORGE ST	31	200	AC	1975	50	2025	14,198	10	1,581	-
Arthur-Sanitary Mains	GEORGE ST	41	200	PVC	1995	75	2070	19,054	55	574	-

Appendix B-3
Township of Wellington-North
Arthur Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur-Sanitary Mains	GEORGE ST	46	200	PVC	1995	75	2070	21,121	55	637	-
Arthur-Sanitary Mains	GEORGE ST	46	200	PVC	1995	75	2070	21,408	55	645	-
Arthur-Sanitary Mains	GEORGE ST	50	200	AC	1975	50	2025	23,174	10	2,580	-
Arthur-Sanitary Mains	GEORGE ST	62	200	PVC	1995	75	2070	28,920	55	872	-
Arthur-Sanitary Mains	GEORGE ST	64	200	AC	1975	50	2025	29,726	10	3,309	-
Arthur-Sanitary Mains	GEORGE ST	65	200	AC	1975	50	2025	30,152	10	3,357	-
Arthur-Sanitary Mains	GEORGE ST	73	200	AC	1975	50	2025	33,734	10	3,756	-
Arthur-Sanitary Mains	GEORGE ST	75	200	PVC	1995	75	2070	34,527	55	1,041	-
Arthur-Sanitary Mains	GEORGE ST	95	200	AC	1975	50	2025	43,794	10	4,875	-
Arthur-Sanitary Mains	GEORGINA ST	84	200	AC	1975	50	2025	38,873	10	4,328	-
Arthur-Sanitary Mains	GEORGINA ST	84	200	AC	1975	50	2025	39,068	10	4,349	-
Arthur-Sanitary Mains	GEORGINA ST	85	200	AC	1975	50	2025	39,211	10	4,365	-
Arthur-Sanitary Mains	GORDON AVE	106	200	Concrete	1970	50	2020	49,234	5	in capital budget	49,234
Arthur-Sanitary Mains	ISABELLA ST	18	200	AC	1975	50	2025	8,563	10	953	-
Arthur-Sanitary Mains	ISABELLA ST	48	200	AC	1975	50	2025	22,224	10	2,474	-
Arthur-Sanitary Mains	ISABELLA ST	74	200	AC	1975	50	2025	34,096	10	3,796	-
Arthur-Sanitary Mains	ISABELLA ST	76	200	AC	1975	50	2025	35,050	10	3,902	-
Arthur-Sanitary Mains	ISABELLA ST	82	200	AC	1975	50	2025	37,882	10	4,217	-
Arthur-Sanitary Mains	ISABELLA ST	83	200	AC	1975	50	2025	38,526	10	4,289	-
Arthur-Sanitary Mains	ISABELLA ST	92	200	AC	1975	50	2025	42,664	10	4,750	-
Arthur-Sanitary Mains	ISABELLA ST	93	200	AC	1975	50	2025	43,053	10	4,793	-
Arthur-Sanitary Mains	ISABELLA ST	103	200	AC	1975	50	2025	47,742	10	5,315	-
Arthur-Sanitary Mains	JOHN ST	11	200	AC	1975	50	2025	4,907	10	546	-
Arthur-Sanitary Mains	JOHN ST	62	200	AC	1975	50	2025	28,517	10	3,175	-
Arthur-Sanitary Mains	JOHN ST	66	200	AC	1975	50	2025	30,602	10	3,407	-
Arthur-Sanitary Mains	JOHN ST	87	200	AC	1975	50	2025	40,398	10	4,497	-
Arthur-Sanitary Mains	JONES BASELINE	5	200	PVC	1995	75	2070	2,470	55	74	-
Arthur-Sanitary Mains	JONES BASELINE	9	200	PVC	1995	75	2070	4,300	55	130	-
Arthur-Sanitary Mains	JONES BASELINE	45	200	PVC	1995	75	2070	20,954	55	632	-
Arthur-Sanitary Mains	JONES BASELINE	59	200	PVC	1995	75	2070	27,289	55	823	-
Arthur-Sanitary Mains	JONES BASELINE	79	200	PVC	1995	75	2070	36,672	55	1,105	-
Arthur-Sanitary Mains	JONES BASELINE	104	200	PVC	1995	75	2070	48,317	55	1,456	-
Arthur-Sanitary Mains	LAGOON	11	150	CI	1975	80	2055	4,921	40	180	-
Arthur-Sanitary Mains	LAGOON	11	150	CI	1975	80	2055	5,125	40	187	-
Arthur-Sanitary Mains	LAGOON	15	150	CI	1975	80	2055	6,770	40	247	-
Arthur-Sanitary Mains	LAGOON	15	150	CI	1975	80	2055	6,969	40	255	-
Arthur-Sanitary Mains	LAGOON	34	250	Concrete	1970	50	2020	16,822	5	in capital budget	16,822
Arthur-Sanitary Mains	LAGOON	119	250	Concrete	1970	50	2020	59,328	5	in capital budget	59,328
Arthur-Sanitary Mains	LEONDARD ST	46	200	AC	1975	50	2025	21,367	10	2,379	-
Arthur-Sanitary Mains	LEONDARD ST	77	200	AC	1975	50	2025	35,792	10	3,985	-
Arthur-Sanitary Mains	LEONDARD ST	79	200	AC	1975	50	2025	36,394	10	4,052	-
Arthur-Sanitary Mains	LYNWOOD PL	27	200	AC	1975	50	2025	12,326	10	1,372	-
Arthur-Sanitary Mains	LYNWOOD PL	27	200	AC	1975	50	2025	12,706	10	1,415	-
Arthur-Sanitary Mains	LYNWOOD PL	46	200	AC	1975	50	2025	21,538	10	2,398	-
Arthur-Sanitary Mains	LYNWOOD PL	49	200	AC	1975	50	2025	22,924	10	2,552	-

Appendix B-3
Township of Wellington-North
Arthur Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Arthur-Sanitary Mains	McCORD ST	76	200	PVC	1995	75	2070	35,222	55	1,062	-
Arthur-Sanitary Mains	McCORD ST	76	200	PVC	1995	75	2070	35,430	55	1,068	-
Arthur-Sanitary Mains	McCORD ST	90	200	PVC	1995	75	2070	41,612	55	1,254	-
Arthur-Sanitary Mains	OUTFALL	128	250	Concrete	1970	50	2020	63,632	5	in capital budget	63,632
Arthur-Sanitary Mains	OUTFALL	133	250	Concrete	1970	50	2020	66,237	5	in capital budget	66,237
Arthur-Sanitary Mains	OUTFALL	138	250	Concrete	1970	50	2020	68,494	5	in capital budget	68,494
Arthur-Sanitary Mains	OUTFALL	143	250	Concrete	1970	50	2020	71,288	5	in capital budget	71,288
Arthur-Sanitary Mains	OUTFALL	150	250	Concrete	1970	50	2020	74,471	5	in capital budget	74,471
Arthur-Sanitary Mains	OUTFALL	150	250	Concrete	1970	50	2020	74,860	5	in capital budget	74,860
Arthur-Sanitary Mains	OUTFALL	152	250	Concrete	1970	50	2020	75,727	5	in capital budget	75,727
Arthur-Sanitary Mains	OUTFALL	177	250	Concrete	1970	50	2020	87,981	5	in capital budget	87,981
Arthur-Sanitary Mains	OUTFALL	182	250	Concrete	1970	50	2020	90,447	5	in capital budget	90,447
Arthur-Sanitary Mains	PATRICK ST	31	375	PVC	1995	75	2070	17,489	55	527	-
Arthur-Sanitary Mains	PRESTON ST	15	375	PVC	1995	75	2070	8,702	55	262	-
Arthur-Sanitary Mains	PRESTON ST	78	375	PVC	1995	75	2070	44,112	55	1,330	-
Arthur-Sanitary Mains	PRESTON ST	86	375	PVC	1995	75	2070	48,846	55	1,472	-
Arthur-Sanitary Mains	PRESTON ST	86	375	PVC	1995	75	2070	49,056	55	1,479	-
Arthur-Sanitary Mains	PRESTON ST	87	375	PVC	1995	75	2070	49,635	55	1,496	-
Arthur-Sanitary Mains	PRESTON ST	90	375	PVC	1995	75	2070	50,838	55	1,532	-
Arthur-Sanitary Mains	PRESTON ST	107	375	PVC	1995	75	2070	60,783	55	1,832	-
Arthur-Sanitary Mains	PRESTON ST	108	375	PVC	1995	75	2070	61,527	55	1,855	-
Arthur-Sanitary Mains	PRESTON ST	118	375	PVC	1995	75	2070	67,203	55	2,026	-
Arthur-Sanitary Mains	SMITH ST	12	200	AC	1975	50	2025	5,686	10	633	-
Arthur-Sanitary Mains	SMITH ST	16	200	AC	1975	50	2025	7,451	10	830	-
Arthur-Sanitary Mains	SMITH ST	20	200	AC	1975	50	2025	9,421	10	1,049	-
Arthur-Sanitary Mains	SMITH ST	30	200	AC	1975	50	2025	14,013	10	1,560	-
Arthur-Sanitary Mains	SMITH ST	36	200	AC	1975	50	2025	16,714	10	1,861	-
Arthur-Sanitary Mains	SMITH ST	67	200	AC	1975	50	2025	31,246	10	3,478	-
Arthur-Sanitary Mains	SMITH ST	76	200	AC	1975	50	2025	35,440	10	3,945	-
Arthur-Sanitary Mains	SMITH ST	77	200	AC	1975	50	2025	35,625	10	3,966	-
Arthur-Sanitary Mains	SMITH ST	79	200	AC	1975	50	2025	36,399	10	4,052	-
Arthur-Sanitary Mains	SMITH ST	79	200	AC	1975	50	2025	36,677	10	4,083	-
Arthur-Sanitary Mains	SMITH ST	80	200	AC	1975	50	2025	36,932	10	4,111	-
Arthur-Sanitary Mains	SMITH ST	80	200	AC	1975	50	2025	36,964	10	4,115	-
Arthur-Sanitary Mains	SMITH ST	80	200	AC	1975	50	2025	36,978	10	4,117	-
Arthur-Sanitary Mains	SMITH ST	82	200	AC	1975	50	2025	38,127	10	4,245	-
Arthur-Sanitary Mains	SMITH ST	84	200	AC	1975	50	2025	39,054	10	4,348	-
Arthur-Sanitary Mains	SMITH ST	84	200	AC	1975	50	2025	39,072	10	4,350	-
Arthur-Sanitary Mains	SMITH ST	86	200	AC	1975	50	2025	39,818	10	4,433	-
Arthur-Sanitary Mains	SMITH ST	86	200	AC	1975	50	2025	39,999	10	4,453	-
Arthur-Sanitary Mains	SMITH ST	88	200	AC	1975	50	2025	40,750	10	4,537	-
Arthur-Sanitary Mains	SMITH ST	109	200	AC	1975	50	2025	50,476	10	5,619	-
Arthur-Sanitary Mains	TUCKER ST	12	200	PVC	1995	75	2070	5,755	55	173	-
Arthur-Sanitary Mains	TUCKER ST	36	200	AC	1975	50	2025	16,673	10	1,856	-
Arthur-Sanitary Mains	TUCKER ST	59	200	PVC	1995	75	2070	27,465	55	828	-

Appendix B-3
Township of Wellington-North
Arthur Sewer Inventory

Location	*Street*	*Length (m)*	*Diameter (mm)*	*Material*	*Year Installed*	*Estimated Life*	*Replacement Year*	*Total Main Replacement Costs*	*Years until Replacement*	*Annual Lifecycle Contribution*	*Amount to be included in 6 year Forecast*
Arthur-Sanitary Mains	TUCKER ST	67	200	PVC	1995	75	2070	30,871	55	931	-
Arthur-Sanitary Mains	TUCKER ST	71	200	PVC	1995	75	2070	33,007	55	995	-
Arthur-Sanitary Mains	TUCKER ST	78	200	AC	1975	50	2025	36,237	10	4,034	-
Arthur-Sanitary Mains	TUCKER ST	86	200	AC	1975	50	2025	39,916	10	4,444	-
Arthur-Sanitary Mains	TUCKER ST	88	200	AC	1975	50	2025	40,773	10	4,539	-
Arthur-Sanitary Mains	TUCKER ST	88	200	AC	1975	50	2025	40,954	10	4,559	-
Arthur-Sanitary Mains	TUCKER ST	95	200	PVC	1995	75	2070	44,156	55	1,331	-
Arthur-Sanitary Mains	TUCKER ST	99	200	AC	1975	50	2025	45,954	10	5,116	-
Arthur-Sanitary Mains	TUCKER ST	100	150	AC	1975	50	2025	46,366	10	5,162	-
Arthur-Sanitary Mains	TUCKER ST	100	150	AC	1975	50	2025	46,445	10	5,171	-
Arthur-Sanitary Mains	WALTON ST	11	200	AC	1975	50	2025	5,148	10	573	-
Arthur-Sanitary Mains	WALTON ST	70	200	AC	1975	50	2025	32,349	10	3,601	-
Arthur-Sanitary Mains	WALTON ST	70	200	AC	1975	50	2025	32,502	10	3,618	-
Arthur-Sanitary Mains	WALTON ST	70	200	AC	1975	50	2025	32,539	10	3,622	-
Arthur-Sanitary Mains	WALTON ST	70	200	AC	1975	50	2025	32,557	10	3,624	-
Arthur-Sanitary Mains	WALTON ST	72	200	AC	1975	50	2025	33,141	10	3,689	-
Arthur-Sanitary Mains	WASTE POND	2	300	Concrete	1970	50	2020	897	5	in capital budget	897
Arthur-Sanitary Mains	WASTE POND	3	300	Concrete	1970	50	2020	1,559	5	in capital budget	1,559
Arthur-Sanitary Mains	WASTE POND	12	300	Concrete	1970	50	2020	6,032	5	in capital budget	6,032
Arthur-Sanitary Mains	WASTE POND	12	300	Concrete	1970	50	2020	6,443	5	in capital budget	6,443
Arthur-Sanitary Mains	WASTE POND	12	300	Concrete	1970	50	2020	6,490	5	in capital budget	6,490
Arthur-Sanitary Mains	WASTE POND	13	300	Concrete	1970	50	2020	6,944	5	in capital budget	6,944
Arthur-Sanitary Mains	WASTE POND	15	300	Concrete	1970	50	2020	7,955	5	in capital budget	7,955
Arthur-Sanitary Mains	WASTE POND	119	300	Concrete	1970	50	2020	62,114	5	in capital budget	62,114
Arthur-Sanitary Mains	WASTE POND	121	300	Concrete	1970	50	2020	63,156	5	in capital budget	63,156
Arthur-Sanitary Mains	WELLINGTON RD 109	18	200	PVC	1995	75	2070	8,447	55	255	-
Arthur-Sanitary Mains	WELLINGTON RD 109	22	200	PVC	1995	75	2070	10,287	55	310	-
Arthur-Sanitary Mains	WELLINGTON RD 109	26	200	PVC	1995	75	2070	11,937	55	360	-
Arthur-Sanitary Mains	WELLINGTON RD 109	31	200	PVC	1995	75	2070	14,305	55	431	-
Arthur-Sanitary Mains	WELLS ST	16	300	AC	1975	50	2025	8,388	10	934	-
Arthur-Sanitary Mains	WELLS ST	31	300	PVC	1995	75	2070	16,379	55	494	-
Arthur-Sanitary Mains	WELLS ST	34	200	AC	1975	50	2025	15,611	10	1,738	-
Arthur-Sanitary Mains	WELLS ST	59	300	PVC	1995	75	2070	30,736	55	926	-
Arthur-Sanitary Mains	WELLS ST	70	300	PVC	1995	75	2070	36,231	55	1,092	-
Arthur-Sanitary Mains	WELLS ST	74	300	AC	1975	50	2025	38,420	10	4,277	-
Arthur-Sanitary Mains	WELLS ST	74	300	AC	1975	50	2025	38,665	10	4,304	-
Arthur-Sanitary Mains	WELLS ST	79	300	PVC	1995	75	2070	41,126	55	1,240	-
Arthur-Sanitary Mains	WELLS ST	99	300	PVC	1995	75	2070	51,672	55	1,558	-
Arthur-Sanitary Mains	WELLS ST	99	300	PVC	1995	75	2070	51,792	55	1,561	-
Arthur-Sanitary Mains	WELLS ST	148	150	STEEL	1990	50	2040	68,465	25	3,507	-
Total		**44,708**						**21,522,936**		**1,802,907**	**2,154,801**

Appendix B-4
Township of Wellington-North
Mt Forest Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest - Sanitary Forcemains	Arthur St.	5	200	PVC	2007	80	2087	2,085	72	55	-
Mount Forest - Sanitary Forcemains	Durham St. (Weber St. to Perth St.)	115	300	PVC	2006	80	2086	59,950	71	1,588	-
Mount Forest - Sanitary Forcemains	Durham Street (Normanby St. to Weber St.)	20	300	PVC	2007	80	2087	10,426	72	274	-
Mount Forest - Sanitary Forcemains	Martin Street	452	300	PVC	2007	80	2087	235,630	72	6,203	-
Mount Forest - Sanitary Forcemains	North Water Street	249	300	PVC	2007	80	2087	129,805	72	3,417	-
Mount Forest - Sanitary Forcemains	River Crossing (STP to South Water St.)	182	150	PVC	2005	80	2085	84,336	70	2,249	-
Mount Forest - Sanitary Forcemains	Sludge Storage Access Road	25	250	PVC	2006	80	2086	12,453	71	330	-
Mount Forest - Sanitary Forcemains	Sludge Storage Access Road	438	300	PVC	2006	80	2086	228,332	71	6,050	-
Mount Forest - Sanitary Sewer	Arthur St.	193	600	PVC	2007	80	2087	114,027	72	3,002	-
Mount Forest - Sanitary Sewer	Birmingham Street	10	150	PVC	2004	80	2084	4,634	69	124	-
Mount Forest - Sanitary Sewer	Birmingham Street	95	375	PVC	2004	80	2084	53,926	69	1,448	-
Mount Forest - Sanitary Sewer	Cork Street (MF)	259	200	PVC	2007	80	2087	120,016	72	3,160	-
Mount Forest - Sanitary Sewer	Durham St. (Main St. to Foster St.)	78	250	PVC	2004	80	2084	38,705	69	1,039	-
Mount Forest - Sanitary Sewer	Durham St. (Main St. to Foster St.)	160	200	PVC	2004	80	2084	74,049	69	1,988	-
Mount Forest - Sanitary Sewer	Durham Street (Normanby St. to Weber St.)	287	200	PVC	2007	80	2087	132,991	72	3,501	-
Mount Forest - Sanitary Sewer	Martin Street	326	200	PVC	2007	80	2087	151,063	72	3,977	-
Mount Forest - Sanitary Sewer	North Water Street	103	600	PVC	2007	80	2087	60,854	72	1,602	-
Mount Forest - Sanitary Sewer	Princess Street (West of Cork Street)	10	200	PVC	2007	80	2087	4,634	72	122	-
Mount Forest - Sanitary Sewer	Princess Street (West of Cork Street)	150	300	PVC	2007	80	2087	78,196	72	2,059	-
Mount Forest: - Sanitary Forcemains	CORK/WATERLOO ST	197	150	PVC	1995	75	2070	91,486	55	2,758	-
Mount Forest: - Sanitary Forcemains	DURHAM ST	12	250	PVC	1995	75	2070	6,217	55	187	-
Mount Forest: - Sanitary Forcemains	MAIN ST	153	125	PVC	1995	75	2070	70,684	55	2,131	-
Mount Forest: - Sanitary Forcemains	NORMANBY ST	9	200	PVC	1995	75	2070	4,170	55	126	-
Mount Forest: - Sanitary Forcemains	NORMANBY ST	416	200	PVC	1995	75	2070	192,637	55	5,807	-
Mount Forest: - Sanitary Forcemains	NORMANBY ST	478	200	PVC	1995	75	2070	221,604	55	6,680	-
Mount Forest: - Sanitary Forcemains	PERTH ST	319	50	PVC	1995	75	2070	147,935	55	4,459	-
Mount Forest: - Sanitary Forcemains	VICTORIA ST	209	50	PVC	1995	75	2070	97,037	55	2,925	-
Mount Forest: - Sanitary Forcemains	WATERLOO/ARTHUR	607	200	PVC	1995	75	2070	281,246	55	8,478	-
Mount Forest: - Sanitary Mains	ALBERT ST	18	200	AC	1975	50	2025	8,109	10	903	-
Mount Forest: - Sanitary Mains	ALBERT ST	29	200	AC	1975	50	2025	13,355	10	1,487	-
Mount Forest: - Sanitary Mains	ALBERT ST	30	200	AC	1975	50	2025	13,730	10	1,529	-
Mount Forest: - Sanitary Mains	ALBERT ST	31	200	AC	1975	50	2025	14,268	10	1,588	-
Mount Forest: - Sanitary Mains	ALBERT ST	47	200	AC	1975	50	2025	21,580	10	2,402	-
Mount Forest: - Sanitary Mains	ALBERT ST	58	200	AC	1975	50	2025	26,774	10	2,981	-
Mount Forest: - Sanitary Mains	ALBERT ST	76	200	AC	1975	50	2025	35,036	10	3,900	-
Mount Forest: - Sanitary Mains	ALBERT ST	79	200	AC	1975	50	2025	36,811	10	4,098	-
Mount Forest: - Sanitary Mains	ALBERT ST	81	200	AC	1975	50	2025	37,358	10	4,159	-
Mount Forest: - Sanitary Mains	ALBERT ST	89	200	AC	1975	50	2025	41,037	10	4,569	-
Mount Forest: - Sanitary Mains	ALBERT ST	101	200	AC	1975	50	2025	46,811	10	5,211	-
Mount Forest: - Sanitary Mains	ALBERT-FOREST GLEN	11	200	AC	1975	50	2025	4,898	10	545	-
Mount Forest: - Sanitary Mains	ALBERT-FOREST GLEN	41	200	AC	1975	50	2025	18,980	10	2,113	-
Mount Forest: - Sanitary Mains	ARTHUR ST	3	600	PVC	1995	75	2070	1,654	55	50	-
Mount Forest: - Sanitary Mains	ARTHUR ST	34	600	PVC	1995	75	2070	19,893	55	600	-
Mount Forest: - Sanitary Mains	ARTHUR ST	63	600	PVC	1995	75	2070	36,997	55	1,115	-
Mount Forest: - Sanitary Mains	ARTHUR ST	67	600	PVC	1995	75	2070	39,443	55	1,189	-
Mount Forest: - Sanitary Mains	ARTHUR ST	92	600	PVC	1995	75	2070	54,172	55	1,633	-
Mount Forest: - Sanitary Mains	ARTHUR ST	101	600	PVC	1995	75	2070	59,790	55	1,802	-

Appendix B-4
Township of Wellington-North
Mt Forest Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Sanitary Mains	ARTHUR ST	104	600	PVC	1995	75	2070	61,161	55	1,844	-
Mount Forest: - Sanitary Mains	ARTHUR ST	106	600	PVC	1995	75	2070	62,402	55	1,881	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	16	200	AC	1975	50	2025	7,590	10	845	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	16	200	AC	1975	50	2025	7,632	10	850	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	24	200	AC	1975	50	2025	11,135	10	1,240	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	41	200	AC	1975	50	2025	19,087	10	2,125	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	59	200	AC	1975	50	2025	27,182	10	3,026	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	65	200	AC	1975	50	2025	30,032	10	3,343	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	67	200	AC	1975	50	2025	31,010	10	3,452	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	77	200	AC	1975	50	2025	35,486	10	3,951	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	77	200	AC	1975	50	2025	35,509	10	3,953	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	79	200	AC	1975	50	2025	36,519	10	4,066	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	80	200	AC	1975	50	2025	37,108	10	4,131	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	83	200	AC	1975	50	2025	38,600	10	4,297	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	85	200	AC	1975	50	2025	39,587	10	4,407	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST	116	200	AC	1975	50	2025	53,697	10	5,978	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST E	2	375	PVC	1995	75	2070	1,385	55	42	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST E	3	375	PVC	1995	75	2070	1,856	55	56	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST E	10	375	PVC	1995	75	2070	5,648	55	170	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST E	12	375	PVC	1995	75	2070	6,812	55	205	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST E	79	375	PVC	1995	75	2070	44,674	55	1,347	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST E	79	375	PVC	1995	75	2070	44,674	55	1,347	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST E	80	375	PVC	1995	75	2070	45,372	55	1,368	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST E	81	375	PVC	1995	75	2070	45,809	55	1,381	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST E	83	375	PVC	1995	75	2070	46,831	55	1,412	-
Mount Forest: - Sanitary Mains	BIRMINGHAM ST E	86	375	PVC	1995	75	2070	48,670	55	1,467	-
Mount Forest: - Sanitary Mains	BYELAND DR	43	200	AC	1975	50	2025	19,888	10	2,214	-
Mount Forest: - Sanitary Mains	BYELAND DR	51	200	AC	1975	50	2025	23,628	10	2,630	-
Mount Forest: - Sanitary Mains	BYELAND DR	63	200	AC	1975	50	2025	29,327	10	3,265	-
Mount Forest: - Sanitary Mains	BYELAND DR	81	200	AC	1975	50	2025	37,330	10	4,156	-
Mount Forest: - Sanitary Mains	BYELAND DR	81	200	AC	1975	50	2025	37,372	10	4,160	-
Mount Forest: - Sanitary Mains	BYELAND DR	81	200	AC	1975	50	2025	37,534	10	4,179	-
Mount Forest: - Sanitary Mains	BYELAND DR	86	200	PVC	1995	75	2070	39,981	55	1,205	-
Mount Forest: - Sanitary Mains	CHERLY LYNN ST	76	250	PVC	1995	75	2070	37,918	55	1,143	-
Mount Forest: - Sanitary Mains	CHERYL LYNN ST	90	250	PVC	1995	75	2070	44,668	55	1,346	-
Mount Forest: - Sanitary Mains	CHERYL LYNN ST	100	250	PVC	1995	75	2070	49,729	55	1,499	-
Mount Forest: - Sanitary Mains	CHURCH CRES	73	200	AC	1975	50	2025	33,595	10	3,740	-
Mount Forest: - Sanitary Mains	CHURCH CRES	84	200	AC	1975	50	2025	39,003	10	4,342	-
Mount Forest: - Sanitary Mains	CHURCH ST	15	300	PVC	1995	75	2070	7,648	55	231	-
Mount Forest: - Sanitary Mains	CHURCH ST	41	300	PVC	1995	75	2070	21,400	55	645	-
Mount Forest: - Sanitary Mains	CHURCH ST	59	200	AC	1975	50	2025	27,446	10	3,055	-
Mount Forest: - Sanitary Mains	CHURCH ST	72	200	AC	1975	50	2025	33,512	10	3,731	-
Mount Forest: - Sanitary Mains	CHURCH ST	87	300	PVC	1995	75	2070	45,505	55	1,372	-
Mount Forest: - Sanitary Mains	CHURCH ST	95	300	PVC	1995	75	2070	49,597	55	1,495	-
Mount Forest: - Sanitary Mains	CHURCH ST	96	300	PVC	1995	75	2070	49,905	55	1,504	-
Mount Forest: - Sanitary Mains	CHURCH ST	97	300	PVC	1995	75	2070	50,337	55	1,517	-
Mount Forest: - Sanitary Mains	CHURCH ST	103	300	PVC	1995	75	2070	53,861	55	1,624	-

Appendix B-4
Township of Wellington-North
Mt Forest Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Sanitary Mains	CHURCH ST	105	300	PVC	1995	75	2070	54,774	55	1,651	-
Mount Forest: - Sanitary Mains	COLCLEUGH AVE	54	200	PVC	1995	75	2070	25,092	55	756	-
Mount Forest: - Sanitary Mains	COLCLEUGH AVE	84	200	PVC	1995	75	2070	38,743	55	1,168	-
Mount Forest: - Sanitary Mains	COLCLEUGH AVE	98	200	PVC	1995	75	2070	45,361	55	1,367	-
Mount Forest: - Sanitary Mains	CORK ST	27	200	PVC	1995	75	2070	12,298	55	371	-
Mount Forest: - Sanitary Mains	CORK ST	76	300	PVC	1995	75	2070	39,739	55	1,198	-
Mount Forest: - Sanitary Mains	CORK ST	89	300	PVC	1995	75	2070	46,162	55	1,391	-
Mount Forest: - Sanitary Mains	CORK ST	92	300	PVC	1995	75	2070	48,038	55	1,448	-
Mount Forest: - Sanitary Mains	CORK ST	95	200	PVC	1995	75	2070	43,924	55	1,324	-
Mount Forest: - Sanitary Mains	CORK ST	107	300	PVC	1995	75	2070	56,004	55	1,688	-
Mount Forest: - Sanitary Mains	CORK ST	108	200	PVC	1995	75	2070	50,041	55	1,508	-
Mount Forest: - Sanitary Mains	Cork Street (MF)	50	150	AC	1948	100	2048	23,169	33	966	-
Mount Forest: - Sanitary Mains	Cork Street (MF)	1,023	150	HDPE	1948	50	2015	474,041	0	in capital budget	474,041
Mount Forest: - Sanitary Mains	DUBLIN ST	11	200	AC	1975	50	2025	5,236	10	583	-
Mount Forest: - Sanitary Mains	DUBLIN ST	34	200	AC	1975	50	2025	15,579	10	1,734	-
Mount Forest: - Sanitary Mains	DUBLIN ST	65	200	AC	1975	50	2025	30,055	10	3,346	-
Mount Forest: - Sanitary Mains	DUBLIN ST	93	200	AC	1975	50	2025	43,002	10	4,787	-
Mount Forest: - Sanitary Mains	DUBLIN ST	103	200	AC	1975	50	2025	47,863	10	5,328	-
Mount Forest: - Sanitary Mains	DUBLIN ST	104	200	AC	1975	50	2025	48,400	10	5,388	-
Mount Forest: - Sanitary Mains	DUBLIN ST	123	200	AC	1975	50	2025	56,811	10	6,325	-
Mount Forest: - Sanitary Mains	DURHAM ST	4	250	PVC	1995	75	2070	1,968	55	59	-
Mount Forest: - Sanitary Mains	DURHAM ST	4	200	AC	1975	50	2025	1,830	10	204	-
Mount Forest: - Sanitary Mains	DURHAM ST	8	200	AC	1975	50	2025	3,749	10	417	-
Mount Forest: - Sanitary Mains	DURHAM ST	14	250	PVC	1995	75	2070	7,088	55	214	-
Mount Forest: - Sanitary Mains	DURHAM ST	29	200	AC	1975	50	2025	13,318	10	1,483	-
Mount Forest: - Sanitary Mains	DURHAM ST	43	200	AC	1975	50	2025	20,051	10	2,232	-
Mount Forest: - Sanitary Mains	DURHAM ST	56	250	PVC	1995	75	2070	27,791	55	838	-
Mount Forest: - Sanitary Mains	DURHAM ST	57	200	AC	1975	50	2025	26,575	10	2,959	-
Mount Forest: - Sanitary Mains	DURHAM ST	60	250	PVC	1995	75	2070	29,903	55	901	-
Mount Forest: - Sanitary Mains	DURHAM ST	61	250	PVC	1995	75	2070	30,312	55	914	-
Mount Forest: - Sanitary Mains	DURHAM ST	62	250	PVC	1995	75	2070	30,805	55	929	-
Mount Forest: - Sanitary Mains	DURHAM ST	73	250	PVC	1995	75	2070	36,319	55	1,095	-
Mount Forest: - Sanitary Mains	DURHAM ST	77	250	PVC	1995	75	2070	38,571	55	1,163	-
Mount Forest: - Sanitary Mains	DURHAM ST	79	200	AC	1975	50	2025	36,552	10	4,069	-
Mount Forest: - Sanitary Mains	DURHAM ST	79	200	AC	1975	50	2025	36,621	10	4,077	-
Mount Forest: - Sanitary Mains	DURHAM ST	81	200	AC	1975	50	2025	37,372	10	4,160	-
Mount Forest: - Sanitary Mains	DURHAM ST	83	250	PVC	1995	75	2070	41,136	55	1,240	-
Mount Forest: - Sanitary Mains	DURHAM ST	86	250	PVC	1995	75	2070	42,790	55	1,290	-
Mount Forest: - Sanitary Mains	DURHAM ST	87	200	AC	1975	50	2025	40,124	10	4,467	-
Mount Forest: - Sanitary Mains	DURHAM ST	94	200	AC	1975	50	2025	43,400	10	4,832	-
Mount Forest: - Sanitary Mains	DURHAM ST	96	250	PVC	1995	75	2070	47,896	55	1,444	-
Mount Forest: - Sanitary Mains	DURHAM ST	96	250	PVC	1995	75	2070	47,971	55	1,446	-
Mount Forest: - Sanitary Mains	DURHAM ST	106	250	PVC	1995	75	2070	52,573	55	1,585	-
Mount Forest: - Sanitary Mains	DURHAM ST	117	200	AC	1975	50	2025	54,193	10	6,033	-
Mount Forest: - Sanitary Mains	DURHAM ST	167	200	AC	1975	50	2025	77,292	10	8,605	-
Mount Forest: - Sanitary Mains	Durham Street (MF)	50	200	AC	1948	100	2048	23,169	33	966	-
Mount Forest: - Sanitary Mains	Durham Street (MF)	487	150	HDPE	1998	50	2048	225,667	33	9,407	-

Appendix B-4
Township of Wellington-North
Mt Forest Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Sanitary Mains	EASEMENT	74	250	PVC	1995	75	2070	36,862	55	1,111	-
Mount Forest: - Sanitary Mains	EASEMENT	74	250	PVC	1995	75	2070	36,862	55	1,111	-
Mount Forest: - Sanitary Mains	EASEMENT	122	250	PVC	1995	75	2070	60,857	55	1,834	-
Mount Forest: - Sanitary Mains	EGREMONT ST	12	200	AC	1975	50	2025	5,723	10	637	-
Mount Forest: - Sanitary Mains	EGREMONT ST	40	200	AC	1975	50	2025	18,396	10	2,048	-
Mount Forest: - Sanitary Mains	EGREMONT ST	46	200	AC	1975	50	2025	21,116	10	2,351	-
Mount Forest: - Sanitary Mains	EGREMONT ST	57	200	AC	1975	50	2025	26,214	10	2,918	-
Mount Forest: - Sanitary Mains	EGREMONT ST	57	200	AC	1975	50	2025	26,492	10	2,949	-
Mount Forest: - Sanitary Mains	EGREMONT ST	60	200	AC	1975	50	2025	27,775	10	3,092	-
Mount Forest: - Sanitary Mains	EGREMONT ST	73	200	AC	1975	50	2025	33,873	10	3,771	-
Mount Forest: - Sanitary Mains	EGREMONT ST	74	200	AC	1975	50	2025	34,337	10	3,823	-
Mount Forest: - Sanitary Mains	EGREMONT ST	74	200	AC	1975	50	2025	34,337	10	3,823	-
Mount Forest: - Sanitary Mains	EGREMONT ST	86	200	PVC	1995	75	2070	40,055	55	1,207	-
Mount Forest: - Sanitary Mains	EGREMONT ST	92	200	AC	1975	50	2025	42,613	10	4,744	-
Mount Forest: - Sanitary Mains	EGREMONT ST	92	200	AC	1975	50	2025	42,742	10	4,758	-
Mount Forest: - Sanitary Mains	EGREMONT ST	93	200	AC	1975	50	2025	42,914	10	4,777	-
Mount Forest: - Sanitary Mains	EGREMONT ST	93	200	AC	1975	50	2025	43,285	10	4,819	-
Mount Forest: - Sanitary Mains	EGREMONT ST	96	200	AC	1975	50	2025	44,540	10	4,959	-
Mount Forest: - Sanitary Mains	EGREMONT ST	97	200	AC	1975	50	2025	44,939	10	5,003	-
Mount Forest: - Sanitary Mains	EGREMONT ST	99	200	AC	1975	50	2025	45,889	10	5,109	-
Mount Forest: - Sanitary Mains	ELGIN ST	3	250	PVC	1995	75	2070	1,714	55	52	-
Mount Forest: - Sanitary Mains	ELGIN ST	13	250	PVC	1995	75	2070	6,650	55	200	-
Mount Forest: - Sanitary Mains	ELGIN ST	33	200	AC	1975	50	2025	15,412	10	1,716	-
Mount Forest: - Sanitary Mains	ELGIN ST	61	200	AC	1975	50	2025	28,489	10	3,172	-
Mount Forest: - Sanitary Mains	ELGIN ST	75	200	AC	1975	50	2025	34,971	10	3,893	-
Mount Forest: - Sanitary Mains	ELGIN ST	92	200	AC	1975	50	2025	42,738	10	4,758	-
Mount Forest: - Sanitary Mains	ELGIN ST	94	200	AC	1975	50	2025	43,544	10	4,848	-
Mount Forest: - Sanitary Mains	ELGIN ST	101	200	AC	1975	50	2025	46,867	10	5,217	-
Mount Forest: - Sanitary Mains	ELGIN ST	102	200	AC	1975	50	2025	47,084	10	5,242	-
Mount Forest: - Sanitary Mains	FERGUS ST	4	200	AC	1975	50	2025	1,923	10	214	-
Mount Forest: - Sanitary Mains	FERGUS ST	5	375	PVC	1995	75	2070	2,838	55	86	-
Mount Forest: - Sanitary Mains	FERGUS ST	7	375	PVC	1995	75	2070	3,798	55	114	-
Mount Forest: - Sanitary Mains	FERGUS ST	86	375	PVC	1995	75	2070	48,965	55	1,476	-
Mount Forest: - Sanitary Mains	FERGUS ST	89	375	PVC	1995	75	2070	50,571	55	1,524	-
Mount Forest: - Sanitary Mains	FERGUS ST	95	200	AC	1975	50	2025	44,068	10	4,906	-
Mount Forest: - Sanitary Mains	FERGUS ST	95	200	AC	1975	50	2025	44,123	10	4,912	-
Mount Forest: - Sanitary Mains	FERGUS ST	95	200	AC	1975	50	2025	44,239	10	4,925	-
Mount Forest: - Sanitary Mains	FERGUS ST	96	200	AC	1975	50	2025	44,526	10	4,957	-
Mount Forest: - Sanitary Mains	FERGUS ST	96	200	AC	1975	50	2025	44,628	10	4,968	-
Mount Forest: - Sanitary Mains	FERGUS ST	98	200	AC	1975	50	2025	45,407	10	5,055	-
Mount Forest: - Sanitary Mains	FERGUS ST	101	375	PVC	1995	75	2070	57,105	55	1,721	-
Mount Forest: - Sanitary Mains	FERGUS ST	105	200	AC	1975	50	2025	48,845	10	5,438	-
Mount Forest: - Sanitary Mains	FERGUS ST	107	200	AC	1975	50	2025	49,410	10	5,501	-
Mount Forest: - Sanitary Mains	FERGUS ST	108	200	AC	1975	50	2025	49,846	10	5,549	-
Mount Forest: - Sanitary Mains	FERGUS ST	108	200	AC	1975	50	2025	50,231	10	5,592	-
Mount Forest: - Sanitary Mains	FOREST GLEN CRES	92	200	AC	1975	50	2025	42,543	10	4,736	-
Mount Forest: - Sanitary Mains	FOREST GLEN CRES	100	200	AC	1975	50	2025	46,125	10	5,135	-

Appendix B-4
Township of Wellington-North
Mt Forest Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Sanitary Mains	FOREST GLEN DR	28	200	AC	1975	50	2025	12,984	10	1,445	-
Mount Forest: - Sanitary Mains	FOREST GLEN DR	59	200	AC	1975	50	2025	27,534	10	3,065	-
Mount Forest: - Sanitary Mains	FOREST GLEN DR	76	200	AC	1975	50	2025	35,310	10	3,931	-
Mount Forest: - Sanitary Mains	FOREST GLEN DR	98	200	AC	1975	50	2025	45,374	10	5,051	-
Mount Forest: - Sanitary Mains	FOSTER ST	6	450	PVC	1995	75	2070	3,650	55	110	-
Mount Forest: - Sanitary Mains	FOSTER ST	10	450	PVC	1995	75	2070	5,591	55	169	-
Mount Forest: - Sanitary Mains	FOSTER ST	12	450	PVC	1995	75	2070	6,982	55	210	-
Mount Forest: - Sanitary Mains	FOSTER ST	30	450	PVC	1995	75	2070	16,887	55	509	-
Mount Forest: - Sanitary Mains	FOSTER ST	31	450	PVC	1995	75	2070	17,597	55	530	-
Mount Forest: - Sanitary Mains	FOSTER ST	81	450	PVC	1995	75	2070	45,798	55	1,380	-
Mount Forest: - Sanitary Mains	FOSTER ST	86	450	PVC	1995	75	2070	48,687	55	1,468	-
Mount Forest: - Sanitary Mains	FOSTER ST	87	450	PVC	1995	75	2070	49,391	55	1,489	-
Mount Forest: - Sanitary Mains	HENRY ST	79	200	PVC	1995	75	2070	36,617	55	1,104	-
Mount Forest: - Sanitary Mains	HENRY ST	80	200	PVC	1995	75	2070	36,857	55	1,111	-
Mount Forest: - Sanitary Mains	HOMEWOOD ST	131	200	AC	1975	50	2025	60,763	10	6,765	-
Mount Forest: - Sanitary Mains	INDUSTRIAL RD	4	300	PVC	1995	75	2070	2,002	55	60	-
Mount Forest: - Sanitary Mains	INDUSTRIAL RD	8	300	PVC	1995	75	2070	3,910	55	118	-
Mount Forest: - Sanitary Mains	INDUSTRIAL RD	9	200	PVC	1995	75	2070	4,045	55	122	-
Mount Forest: - Sanitary Mains	INDUSTRIAL RD	36	200	PVC	1995	75	2070	16,686	55	503	-
Mount Forest: - Sanitary Mains	INDUSTRIAL RD	66	200	PVC	1995	75	2070	30,606	55	923	-
Mount Forest: - Sanitary Mains	INDUSTRIAL RD	100	300	PVC	1995	75	2070	51,990	55	1,567	-
Mount Forest: - Sanitary Mains	IRWIN LYTLE DR	1	200	PVC	1995	75	2070	440	55	13	-
Mount Forest: - Sanitary Mains	IRWIN LYTLE DR	9	200	PVC	1995	75	2070	4,004	55	121	-
Mount Forest: - Sanitary Mains	IRWIN LYTLE DR	10	200	PVC	1995	75	2070	4,476	55	135	-
Mount Forest: - Sanitary Mains	IRWIN LYTLE DR	10	200	PVC	1995	75	2070	4,620	55	139	-
Mount Forest: - Sanitary Mains	IRWIN LYTLE DR	91	200	PVC	1995	75	2070	41,964	55	1,265	-
Mount Forest: - Sanitary Mains	IRWIN LYTLE DR	95	200	PVC	1995	75	2070	44,086	55	1,329	-
Mount Forest: - Sanitary Mains	JAMES ST	34	200	AC	1975	50	2025	15,528	10	1,729	-
Mount Forest: - Sanitary Mains	JAMES ST	76	200	AC	1975	50	2025	35,171	10	3,915	-
Mount Forest: - Sanitary Mains	JAMES ST	115	200	AC	1975	50	2025	53,414	10	5,946	-
Mount Forest: - Sanitary Mains	JAMES ST	154	200	AC	1975	50	2025	71,152	10	7,921	-
Mount Forest: - Sanitary Mains	JEREMYS CRES	65	200	PVC	1995	75	2070	30,152	55	909	-
Mount Forest: - Sanitary Mains	JEREMYS CRES	65	200	PVC	1995	75	2070	30,277	55	913	-
Mount Forest: - Sanitary Mains	JEREMYS CRES	65	200	PVC	1995	75	2070	30,338	55	914	-
Mount Forest: - Sanitary Mains	JEREMYS CRES	87	200	PVC	1995	75	2070	40,175	55	1,211	-
Mount Forest: - Sanitary Mains	JOHN ST	80	200	AC	1975	50	2025	37,279	10	4,150	-
Mount Forest: - Sanitary Mains	JOHN ST	82	200	AC	1975	50	2025	37,803	10	4,208	-
Mount Forest: - Sanitary Mains	JOHN ST	149	200	AC	1975	50	2025	68,924	10	7,673	-
Mount Forest: - Sanitary Mains	JUSTINS PL	69	200	PVC	1995	75	2070	31,978	55	964	-
Mount Forest: - Sanitary Mains	KING ST	11	250	PVC	1995	75	2070	5,634	55	170	-
Mount Forest: - Sanitary Mains	KING ST	12	200	AC	1975	50	2025	5,658	10	630	-
Mount Forest: - Sanitary Mains	KING ST	13	200	AC	1975	50	2025	5,936	10	661	-
Mount Forest: - Sanitary Mains	KING ST	68	200	AC	1975	50	2025	31,501	10	3,507	-
Mount Forest: - Sanitary Mains	KING ST	79	200	AC	1975	50	2025	36,566	10	4,071	-
Mount Forest: - Sanitary Mains	KING ST	79	200	AC	1975	50	2025	36,751	10	4,091	-
Mount Forest: - Sanitary Mains	KING ST	84	200	AC	1975	50	2025	38,957	10	4,337	-
Mount Forest: - Sanitary Mains	KING ST	86	200	AC	1975	50	2025	39,842	10	4,435	-

Appendix B-4
Township of Wellington-North
Mt Forest Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Sanitary Mains	KING ST	88	200	AC	1975	50	2025	40,838	10	4,546	-
Mount Forest: - Sanitary Mains	KING ST	92	200	AC	1975	50	2025	42,418	10	4,722	-
Mount Forest: - Sanitary Mains	KING ST	100	200	AC	1975	50	2025	46,287	10	5,153	-
Mount Forest: - Sanitary Mains	KING ST	105	200	AC	1975	50	2025	48,841	10	5,437	-
Mount Forest: - Sanitary Mains	KING ST	120	200	AC	1975	50	2025	55,569	10	6,186	-
Mount Forest: - Sanitary Mains	LONDON RD	10	200	PVC	1995	75	2070	4,606	55	139	-
Mount Forest: - Sanitary Mains	LONDON RD	12	200	PVC	1995	75	2070	5,380	55	162	-
Mount Forest: - Sanitary Mains	LONDON RD	41	200	PVC	1995	75	2070	18,795	55	567	-
Mount Forest: - Sanitary Mains	LONDON RD	83	200	PVC	1995	75	2070	38,262	55	1,153	-
Mount Forest: - Sanitary Mains	LONDON RD	87	200	PVC	1995	75	2070	40,379	55	1,217	-
Mount Forest: - Sanitary Mains	LONDON RD	89	200	PVC	1995	75	2070	41,463	55	1,250	-
Mount Forest: - Sanitary Mains	LONDON RD	99	200	PVC	1995	75	2070	45,717	55	1,378	-
Mount Forest: - Sanitary Mains	MAIN	6	300	CLAY	1950	75	2025	3,039	10	338	-
Mount Forest: - Sanitary Mains	MAIN	7	300	CLAY	1950	75	2025	3,566	10	397	-
Mount Forest: - Sanitary Mains	MAIN	7	300	CLAY	1950	75	2025	3,795	10	422	-
Mount Forest: - Sanitary Mains	MAIN	7	300	CLAY	1950	75	2025	3,879	10	432	-
Mount Forest: - Sanitary Mains	MAIN	9	300	CLAY	1950	75	2025	4,457	10	496	-
Mount Forest: - Sanitary Mains	MAIN	10	300	CLAY	1950	75	2025	5,291	10	589	-
Mount Forest: - Sanitary Mains	MAIN	14	300	CLAY	1950	75	2025	7,147	10	796	-
Mount Forest: - Sanitary Mains	MAIN	16	300	CLAY	1950	75	2025	8,409	10	936	-
Mount Forest: - Sanitary Mains	MAIN	18	300	CLAY	1950	75	2025	9,436	10	1,050	-
Mount Forest: - Sanitary Mains	MAIN	20	300	CLAY	1950	75	2025	10,212	10	1,137	-
Mount Forest: - Sanitary Mains	MAIN	20	300	CLAY	1950	75	2025	10,426	10	1,161	-
Mount Forest: - Sanitary Mains	MAIN	25	300	CLAY	1950	75	2025	13,095	10	1,458	-
Mount Forest: - Sanitary Mains	MAIN	33	300	CLAY	1950	75	2025	17,427	10	1,940	-
Mount Forest: - Sanitary Mains	MAIN	39	300	CLAY	1950	75	2025	20,545	10	2,287	-
Mount Forest: - Sanitary Mains	MAIN	53	300	CLAY	1950	75	2025	27,624	10	3,075	-
Mount Forest: - Sanitary Mains	MAIN	56	300	CLAY	1950	75	2025	29,021	10	3,231	-
Mount Forest: - Sanitary Mains	MAIN	56	300	CLAY	1950	75	2025	29,131	10	3,243	-
Mount Forest: - Sanitary Mains	MAIN	56	300	CLAY	1950	75	2025	29,224	10	3,253	-
Mount Forest: - Sanitary Mains	MAIN	59	300	CLAY	1950	75	2025	30,663	10	3,414	-
Mount Forest: - Sanitary Mains	MAIN	66	300	CLAY	1950	75	2025	34,448	10	3,835	-
Mount Forest: - Sanitary Mains	MAIN	67	300	CLAY	1950	75	2025	34,729	10	3,866	-
Mount Forest: - Sanitary Mains	MAIN	75	300	CLAY	1950	75	2025	38,884	10	4,329	-
Mount Forest: - Sanitary Mains	MAIN	82	300	CLAY	1950	75	2025	42,716	10	4,755	-
Mount Forest: - Sanitary Mains	MAIN	85	300	CLAY	1950	75	2025	44,467	10	4,950	-
Mount Forest: - Sanitary Mains	MAIN	86	300	CLAY	1950	75	2025	44,780	10	4,985	-
Mount Forest: - Sanitary Mains	MAIN	86	300	CLAY	1950	75	2025	44,926	10	5,001	-
Mount Forest: - Sanitary Mains	MAIN	87	300	CLAY	1950	75	2025	45,182	10	5,030	-
Mount Forest: - Sanitary Mains	MAIN	88	300	CLAY	1950	75	2025	45,625	10	5,079	-
Mount Forest: - Sanitary Mains	MAIN	91	300	CLAY	1950	75	2025	47,428	10	5,280	-
Mount Forest: - Sanitary Mains	MAIN	95	300	CLAY	1950	75	2025	49,404	10	5,500	-
Mount Forest: - Sanitary Mains	MAIN	95	300	CLAY	1950	75	2025	49,482	10	5,509	-
Mount Forest: - Sanitary Mains	MAIN	95	300	CLAY	1950	75	2025	49,649	10	5,527	-
Mount Forest: - Sanitary Mains	MAIN	96	300	CLAY	1950	75	2025	50,176	10	5,586	-
Mount Forest: - Sanitary Mains	MAIN	99	300	CLAY	1950	75	2025	51,432	10	5,726	-
Mount Forest: - Sanitary Mains	MAIN	100	300	CLAY	1950	75	2025	52,308	10	5,823	-

Appendix B-4
Township of Wellington-North
Mt Forest Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Sanitary Mains	MAIN	101	300	CLAY	1950	75	2025	52,626	10	5,859	-
Mount Forest: - Sanitary Mains	MAIN	106	300	CLAY	1950	75	2025	55,211	10	6,147	-
Mount Forest: - Sanitary Mains	MAIN	108	300	CLAY	1950	75	2025	56,494	10	6,289	-
Mount Forest: - Sanitary Mains	MAIN	112	300	CLAY	1950	75	2025	58,146	10	6,473	-
Mount Forest: - Sanitary Mains	MAIN ST	6	375	PVC	1995	75	2070	3,179	55	96	-
Mount Forest: - Sanitary Mains	MAIN ST	18	375	PVC	1995	75	2070	10,325	55	311	-
Mount Forest: - Sanitary Mains	MAIN ST.	101	300	AC	1975	50	2025	52,464	10	5,841	-
Mount Forest: - Sanitary Mains	MELISSA CRES	70	200	PVC	1995	75	2070	32,511	55	980	-
Mount Forest: - Sanitary Mains	MELISSA CRES	73	200	PVC	1995	75	2070	34,040	55	1,026	-
Mount Forest: - Sanitary Mains	MELISSA CRES	94	200	PVC	1995	75	2070	43,716	55	1,318	-
Mount Forest: - Sanitary Mains	MELISSA CRES	95	200	PVC	1995	75	2070	44,100	55	1,329	-
Mount Forest: - Sanitary Mains	MILLER ST	31	200	AC	1975	50	2025	14,254	10	1,587	-
Mount Forest: - Sanitary Mains	MILLER ST	34	200	AC	1975	50	2025	15,755	10	1,754	-
Mount Forest: - Sanitary Mains	MILLER ST	112	200	AC	1975	50	2025	51,690	10	5,755	-
Mount Forest: - Sanitary Mains	MILLER ST	123	200	AC	1975	50	2025	57,195	10	6,367	-
Mount Forest: - Sanitary Mains	MIOUNT FOREST DR	16	200	PVC	1995	75	2070	7,488	55	226	-
Mount Forest: - Sanitary Mains	MIOUNT FOREST DR	76	200	PVC	1995	75	2070	35,087	55	1,058	-
Mount Forest: - Sanitary Mains	MIOUNT FOREST DR	131	200	PVC	1995	75	2070	60,527	55	1,824	-
Mount Forest: - Sanitary Mains	NEWFOUNDLAND ST	12	200	PVC	1995	75	2070	5,561	55	168	-
Mount Forest: - Sanitary Mains	NORMANBY ST	4	600	PVC	1995	75	2070	2,623	55	79	-
Mount Forest: - Sanitary Mains	NORMANBY ST	27	600	PVC	1995	75	2070	16,123	55	486	-
Mount Forest: - Sanitary Mains	NORMANBY ST	43	200	AC	1975	50	2025	20,129	10	2,241	-
Mount Forest: - Sanitary Mains	NORMANBY ST	54	200	AC	1975	50	2025	25,018	10	2,785	-
Mount Forest: - Sanitary Mains	NORMANBY ST	96	200	AC	1975	50	2025	44,332	10	4,935	-
Mount Forest: - Sanitary Mains	NORMANBY ST	96	200	AC	1975	50	2025	44,378	10	4,940	-
Mount Forest: - Sanitary Mains	NORMANBY ST	96	200	AC	1975	50	2025	44,684	10	4,975	-
Mount Forest: - Sanitary Mains	NORMANBY ST	117	600	PVC	1995	75	2070	69,379	55	2,091	-
Mount Forest: - Sanitary Mains	NORTH WATER ST	17	200	PVC	1995	75	2070	7,942	55	239	-
Mount Forest: - Sanitary Mains	NORTH WATER ST	62	200	PVC	1995	75	2070	28,920	55	872	-
Mount Forest: - Sanitary Mains	NORTH WATER ST	63	200	PVC	1995	75	2070	28,989	55	874	-
Mount Forest: - Sanitary Mains	NORTH WATER ST	72	200	PVC	1995	75	2070	33,493	55	1,010	-
Mount Forest: - Sanitary Mains	NORTH WATER ST	135	200	PVC	1995	75	2070	62,552	55	1,886	-
Mount Forest: - Sanitary Mains	NORTH WATER/ARTHUR	7	600	PVC	1995	75	2070	4,136	55	125	-
Mount Forest: - Sanitary Mains	NORTH WATER/ARTHUR	66	600	PVC	1995	75	2070	38,763	55	1,168	-
Mount Forest: - Sanitary Mains	NORTH WATER/ARTHUR	110	600	PVC	1995	75	2070	65,025	55	1,960	-
Mount Forest: - Sanitary Mains	NORTH WATER/ARTHUR	185	600	PVC	1995	75	2070	109,312	55	3,295	-
Mount Forest: - Sanitary Mains	OAKVIEW CRES	86	200	AC	1975	50	2025	39,763	10	4,427	-
Mount Forest: - Sanitary Mains	OAKVIEW CRES	117	200	AC	1975	50	2025	54,234	10	6,038	-
Mount Forest: - Sanitary Mains	OAKVIEW CRES	133	200	AC	1975	50	2025	61,838	10	6,884	-
Mount Forest: - Sanitary Mains	PARKSIDE ST	35	200	PVC	1995	75	2070	16,177	55	488	-
Mount Forest: - Sanitary Mains	PARKSIDE ST	41	200	PVC	1995	75	2070	18,925	55	570	-
Mount Forest: - Sanitary Mains	PARKSIDE ST	53	200	PVC	1995	75	2070	24,341	55	734	-
Mount Forest: - Sanitary Mains	PARKSIDE ST	82	200	PVC	1995	75	2070	38,085	55	1,148	-
Mount Forest: - Sanitary Mains	PEEL ST	35	200	PVC	1995	75	2070	16,005	55	482	-
Mount Forest: - Sanitary Mains	PEEL ST	129	200	PVC	1995	75	2070	59,762	55	1,801	-
Mount Forest: - Sanitary Mains	PERTH ST	11	200	AC	1975	50	2025	5,306	10	591	-
Mount Forest: - Sanitary Mains	PERTH ST	73	200	AC	1975	50	2025	33,808	10	3,764	-

Appendix B-4
Township of Wellington-North
Mt Forest Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Sanitary Mains	PERTH ST	74	200	AC	1975	50	2025	34,476	10	3,838	-
Mount Forest: - Sanitary Mains	PERTH ST	97	200	AC	1975	50	2025	44,943	10	5,003	-
Mount Forest: - Sanitary Mains	PERTH ST	104	200	AC	1975	50	2025	48,410	10	5,389	-
Mount Forest: - Sanitary Mains	PERTH ST	116	200	AC	1975	50	2025	53,766	10	5,986	-
Mount Forest: - Sanitary Mains	PRINCE CHARLES ST	113	200	AC	1975	50	2025	52,274	10	5,820	-
Mount Forest: - Sanitary Mains	PRINCESS ANN ST	97	200	AC	1975	50	2025	45,092	10	5,020	-
Mount Forest: - Sanitary Mains	PRINCESS ST	80	200	PVC	1995	75	2070	37,214	55	1,122	-
Mount Forest: - Sanitary Mains	PRINCESS ST	85	200	PVC	1995	75	2070	39,216	55	1,182	-
Mount Forest: - Sanitary Mains	PRINCESS ST	110	200	PVC	1995	75	2070	51,065	55	1,539	-
Mount Forest: - Sanitary Mains	QUEEN ST	56	200	AC	1975	50	2025	25,741	10	2,866	-
Mount Forest: - Sanitary Mains	QUEEN ST	72	200	AC	1975	50	2025	33,466	10	3,726	-
Mount Forest: - Sanitary Mains	QUEEN ST	74	200	AC	1975	50	2025	34,313	10	3,820	-
Mount Forest: - Sanitary Mains	QUEEN ST	76	200	AC	1975	50	2025	35,027	10	3,899	-
Mount Forest: - Sanitary Mains	QUEEN ST	78	200	AC	1975	50	2025	36,186	10	4,028	-
Mount Forest: - Sanitary Mains	QUEEN ST	82	200	AC	1975	50	2025	38,039	10	4,235	-
Mount Forest: - Sanitary Mains	QUEEN ST	82	200	AC	1975	50	2025	38,206	10	4,253	-
Mount Forest: - Sanitary Mains	QUEEN ST	88	200	AC	1975	50	2025	40,903	10	4,554	-
Mount Forest: - Sanitary Mains	QUEEN ST	91	200	AC	1975	50	2025	42,168	10	4,694	-
Mount Forest: - Sanitary Mains	QUEEN ST	106	200	AC	1975	50	2025	48,901	10	5,444	-
Mount Forest: - Sanitary Mains	QUEEN ST	121	200	AC	1975	50	2025	56,134	10	6,249	-
Mount Forest: - Sanitary Mains	QUEEN ST	132	200	AC	1975	50	2025	61,278	10	6,822	-
Mount Forest: - Sanitary Mains	QUEEN ST	137	200	AC	1975	50	2025	63,405	10	7,059	-
Mount Forest: - Sanitary Mains	QUEEN/NORMANBY	18	600	PVC	1995	75	2070	10,587	55	319	-
Mount Forest: - Sanitary Mains	QUEEN/NORMANBY	29	600	PVC	1995	75	2070	17,063	55	514	-
Mount Forest: - Sanitary Mains	QUEEN/WELLINGTON	71	200	PVC	1995	75	2070	32,923	55	992	-
Mount Forest: - Sanitary Mains	QUEEN/WELLINGTON	74	200	PVC	1995	75	2070	34,392	55	1,037	-
Mount Forest: - Sanitary Mains	QUEEN/WELLINGTON	77	200	PVC	1995	75	2070	35,745	55	1,077	-
Mount Forest: - Sanitary Mains	SILVERBIRCH ST	31	200	AC	1975	50	2025	14,305	10	1,592	-
Mount Forest: - Sanitary Mains	SILVERBIRCH ST	71	200	AC	1975	50	2025	32,849	10	3,657	-
Mount Forest: - Sanitary Mains	SILVERBIRCH ST	80	200	AC	1975	50	2025	36,918	10	4,110	-
Mount Forest: - Sanitary Mains	SLIGO RD	10	375	PVC	1995	75	2070	5,750	55	173	-
Mount Forest: - Sanitary Mains	SLIGO RD	13	375	PVC	1995	75	2070	7,379	55	222	-
Mount Forest: - Sanitary Mains	SLIGO RD	15	375	PVC	1995	75	2070	8,395	55	253	-
Mount Forest: - Sanitary Mains	SLIGO RD	18	200	AC	1975	50	2025	8,369	10	932	-
Mount Forest: - Sanitary Mains	SLIGO RD	69	375	PVC	1995	75	2070	38,980	55	1,175	-
Mount Forest: - Sanitary Mains	SLIGO RD	72	375	PVC	1995	75	2070	40,973	55	1,235	-
Mount Forest: - Sanitary Mains	SLIGO RD	78	375	PVC	1995	75	2070	43,992	55	1,326	-
Mount Forest: - Sanitary Mains	SLIGO RD	78	375	PVC	1995	75	2070	44,191	55	1,332	-
Mount Forest: - Sanitary Mains	SLIGO RD	80	375	PVC	1995	75	2070	45,156	55	1,361	-
Mount Forest: - Sanitary Mains	SLIGO RD	83	375	PVC	1995	75	2070	47,234	55	1,424	-
Mount Forest: - Sanitary Mains	SLIGO RD	84	200	AC	1975	50	2025	38,966	10	4,338	-
Mount Forest: - Sanitary Mains	SLIGO RD	89	375	PVC	1995	75	2070	50,577	55	1,525	-
Mount Forest: - Sanitary Mains	SLIGO RD	93	375	PVC	1995	75	2070	52,507	55	1,583	-
Mount Forest: - Sanitary Mains	SLIGO RD	102	375	PVC	1995	75	2070	58,087	55	1,751	-
Mount Forest: - Sanitary Mains	SLIGO RD	109	375	PVC	1995	75	2070	62,151	55	1,873	-
Mount Forest: - Sanitary Mains	SLIGO RD	116	200	AC	1975	50	2025	53,688	10	5,977	-
Mount Forest: - Sanitary Mains	SLIGO RD	116	375	PVC	1995	75	2070	65,943	55	1,988	-

Appendix B-4
Township of Wellington-North
Mt Forest Sewer Inventory

Location	Street	Length (m)	Diameter (mm)	Material	Year Installed	Estimated Life	Replacement Year	Total Main Replacement Costs	Years until Replacement	Annual Lifecycle Contribution	Amount to be included in 6 year Forecast
Mount Forest: - Sanitary Mains	SLIGO RD	116	200	AC	1975	50	2025	53,924	10	6,003	-
Mount Forest: - Sanitary Mains	WATERLOO ST	8	200	AC	1975	50	2025	3,786	10	421	-
Mount Forest: - Sanitary Mains	WATERLOO ST	19	200	AC	1975	50	2025	8,990	10	1,001	-
Mount Forest: - Sanitary Mains	WATERLOO ST	67	200	PVC	1995	75	2070	31,251	55	942	-
Mount Forest: - Sanitary Mains	WATERLOO ST	68	200	PVC	1995	75	2070	31,278	55	943	-
Mount Forest: - Sanitary Mains	WATERLOO ST	79	200	AC	1975	50	2025	36,376	10	4,050	-
Mount Forest: - Sanitary Mains	WATERLOO ST	94	200	AC	1975	50	2025	43,739	10	4,869	-
Mount Forest: - Sanitary Mains	WATERLOO ST	94	200	AC	1975	50	2025	43,753	10	4,871	-
Mount Forest: - Sanitary Mains	WATERLOO ST	99	200	AC	1975	50	2025	45,949	10	5,115	-
Mount Forest: - Sanitary Mains	WATERLOO ST	133	200	AC	1975	50	2025	61,769	10	6,877	-
Mount Forest: - Sanitary Mains	WATERLOO ST	134	200	AC	1975	50	2025	61,954	10	6,897	-
Mount Forest: - Sanitary Mains	WATERLOO ST	134	200	AC	1975	50	2025	61,996	10	6,902	-
Mount Forest: - Sanitary Mains	WEBER ST	107	200	AC	1975	50	2025	49,401	10	5,500	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	6	300	PVC	1995	75	2070	3,243	55	98	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	9	200	AC	1975	50	2025	4,045	10	450	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	12	300	PVC	1995	75	2070	6,256	55	189	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	13	300	PVC	1995	75	2070	6,918	55	209	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	13	300	PVC	1995	75	2070	6,928	55	209	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	14	200	AC	1975	50	2025	6,622	10	737	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	70	200	AC	1975	50	2025	32,395	10	3,606	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	70	300	PVC	1995	75	2070	36,544	55	1,102	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	72	300	PVC	1995	75	2070	37,518	55	1,131	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	73	300	PVC	1995	75	2070	38,118	55	1,149	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	74	300	PVC	1995	75	2070	38,368	55	1,157	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	77	200	AC	1975	50	2025	35,592	10	3,962	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	77	200	AC	1975	50	2025	35,736	10	3,978	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	79	300	PVC	1995	75	2070	41,100	55	1,239	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	80	300	PVC	1995	75	2070	41,882	55	1,262	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	86	300	PVC	1995	75	2070	44,619	55	1,345	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	89	300	PVC	1995	75	2070	46,240	55	1,394	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	90	300	PVC	1995	75	2070	46,813	55	1,411	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	96	300	PVC	1995	75	2070	50,202	55	1,513	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	96	300	PVC	1995	75	2070	50,254	55	1,515	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	98	300	PVC	1995	75	2070	51,083	55	1,540	-
Mount Forest: - Sanitary Mains	WELLINGTON ST	100	300	PVC	1995	75	2070	52,350	55	1,578	-
Mount Forest: - Sanitary Mains	WENDYS LN	62	200	PVC	1995	75	2070	28,781	55	868	-
Mount Forest: - Sanitary Mains	WENDYS LN	77	200	PVC	1995	75	2070	35,676	55	1,075	-
Mount Forest: - Sanitary Mains	WILLIAM ST	60	200	AC	1975	50	2025	27,937	10	3,110	-
Mount Forest: - Sanitary Mains	WILLIAM ST	142	200	AC	1975	50	2025	65,967	10	7,344	-
Mount Forest: - Sanitary Mains	YORK ST	20	200	PVC	1995	75	2070	9,133	55	275	-
Mt. Forest	Mt. Forest	68	150	PVC	1992	75	2067	31,510	52	980	-
Mt. Forest	Mt. Forest	4,411	200	PVC	1992	75	2067	2,043,981	52	63,586	-
Mt. Forest	Mt. Forest	1,567	250	PVC	1992	75	2067	780,580	52	24,283	-
Mt. Forest	Mt. Forest	1,493	300	PVC	1992	75	2067	778,309	52	24,212	-
Mt. Forest	Mt. Forest	805	375	PVC	1992	75	2067	456,953	52	14,215	-
Mt. Forest	Mt. Forest	880	450	PVC	1992	75	2067	499,527	52	15,540	-
Mt. Forest	Mt. Forest	102	150	Clay Tile	1952	75	2027	47,265	12	4,469	-

Appendix B-4
Township of Wellington-North
Mt Forest Sewer Inventory

Location	*Street*	*Length (m)*	*Diameter (mm)*	*Material*	*Year Installed*	*Estimated Life*	*Replacement Year*	*Total Main Replacement Costs*	*Years until Replacement*	*Annual Lifecycle Contribution*	*Amount to be included in 6 year Forecast*
Mt. Forest	Mt. Forest	8,850	200	Clay Tile	1952	75	2027	4,100,937	12	387,783	-
Mt. Forest	Mt. Forest	1,486	200	Clay Tile	1972	75	2047	688,587	32	29,341	-
Mt. Forest	Mt. Forest	1,227	250	Clay Tile	1952	75	2027	611,213	12	57,796	-
Mt. Forest	Mt. Forest	1,229	300	Clay Tile	1952	75	2027	640,685	12	60,583	-
Mt. Forest	Mt. Forest	555	375	Clay Tile	1952	75	2027	315,042	12	29,790	-
Mt. Forest	Mt. Forest	3,008	200	AC	1972	50	2022	1,393,855	7	215,367	-
Mt. Forest	Mt. Forest	222	375	AC	1972	50	2022	126,017	7	19,471	-
Mt. Forest	Mt. Forest	27	250	AC	1972	50	2022	13,450	7	2,078	-
Mt. Forest	Mt. Forest	50	200	PVC	1995	75	2070	23,169	55	698	-
Mt. Forest	Mt. Forest	290	600	Concrete	1970	50	2020	171,336	5	in capital budget	171,336
Total		**60,178**						**29,261,440**		**2,035,933**	**645,376**

Appendix C – Detailed Water Rate Calculations

Appendix C-1
Township of Wellington-North
Water Service
Capital Budget Forecast
Inflated $

Description	Total	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Capital Expenditures								
SCADA Backup Generators (2)	-	-	-	-	-	-	-	-
MF & AV Energy Retrofits	-	-	-	-	-	-	-	-
King St W (Main- Queen St W) eng & const	134,000	17,000	117,000	-	-	-	-	-
Eliza St. (Frederick St E-Bellefield Cr) eng. & const	212,000	27,000	185,000	-	-	-	-	-
2007 Pick Up Truck Replacement	35,000	35,000	-	-	-	-	-	-
Water System Scada upgrades	182,000	182,000	-	-	-	-	-	-
Francis St (Charles St W- George St) eng & construction	241,000	-	30,000	211,000	-	-	-	-
James St (Queen St W - North Water St) eng & const	300,000	-	38,000	262,000	-	-	-	-
Elgin St (Wellington St- King St W) eng & const	136,000	-	17,000	119,000	-	-	-	-
2008 Pick Up Truck Replacement	36,000	-	36,000	-	-	-	-	-
Cork St. (Waterloo- Princess St)	121,000	-	121,000	-	-	-	-	-
Charles St E (George St-Isabella St) eng & const	151,000	-	-	19,000	132,000	-	-	-
Fergus St (King St E- Wellington St E)eng & const	151,000	-	-	19,000	132,000	-	-	-
Williams St (Queen St- N. Water St) eng & const	336,000	-	-	-	42,000	294,000	-	-
Walton St (Clark St- Tucker St) eng & const	134,000	-	-	-	17,000	117,000	-	-
New Trunk Line to MF Water Tower	424,000	-	-	-	424,000	-	-	-
Water Meters	1,380,000	-	-	-	1,380,000	-	-	-
2010 Pick Up Truck Replacement	37,000	-	-	-	37,000	-	-	-
Isabella St (Frederick St- John Eliza) eng	47,000	-	-	-	-	47,000	-	-
John St. (Queen-Waterloo St) eng	21,000	-	-	-	-	21,000	-	-
	-	-	-	-	-	-	-	-
Growth Related:	-	-	-	-	-	-	-	-
MF Water Tower/Booster station - Standpipe/Southend	2,165,000	-	-	-	-	2,165,000	-	-
AV Frederick St.(Joint Project with County)	537,000	537,000	-	-	-	-	-	-
Miller/John/North Water St.	487,000	487,000	-	-	-	-	-	-
Wells St. (Domville St. to Eliza St.)	746,000	-	-	-	-	-	746,000	-
Sligo Road (Church St. to London Rd.)	293,000	-	-	-	-	-	293,000	-
London Road (Sligo Rd. to Wellington St.)	348,000	-	-	-	-	-	348,000	-
Durham St. (London Road Westerly)	40,000	-	-	-	-	-	40,000	-
Murphy Lands (Bristol St./Bentley St.)	568,000	-	270,000	-	-	-	-	298,000
	-	-	-	-	-	-	-	-
Studies:	-	-	-	-	-	-	-	-
Water and Wastewater Rate Study	35,000	17,000	-	-	-	-	18,000	-
	-	-	-	-	-	-	-	-
Lifecycle:	-	-	-	-	-	-	-	-
Water Facilities	2,372,000	-	-	-	-	775,000	791,000	806,000
Arthur Water Distribution	2,256,000	-	-	-	-	737,000	752,000	767,000
Mt Forest Water Distribution	3,171,000	-	-	-	-	1,036,000	1,057,000	1,078,000
Total Capital Expenditures	17,096,000	1,302,000	814,000	630,000	2,164,000	5,192,000	4,045,000	2,949,000
Capital Financing								
Provincial/Federal Grants	-							
Unused Capital	358,232	358,232						
Development Charges Reserve Fund	856,733	163,733	243,000	-	-	400,000	50,000	-
Non-Growth Related Debenture Requirements	3,991,450	-	-	-	-	477,550	1,983,100	1,530,800
Growth Related Debenture Requirements	1,544,550	-	-	-	-	314,450	961,900	268,200
Operating Contributions	-	-	-	-	-	-	-	-
Lifecycle Reserve Fund	2,200,000	-	-	-	-	1,900,000	150,000	150,000
Water Reserve	8,145,035	780,035	571,000	630,000	2,164,000	2,100,000	900,000	1,000,000
Total Capital Financing	17,096,000	1,302,000	814,000	630,000	2,164,000	5,192,000	4,045,000	2,949,000

Appendix C-2
Township of Wellington-North
Water Service
Schedule of Non-Growth Related Debenture Repayments
Inflated $

Debenture Year	Principal (Inflated)	Forecast						
		2015	2016	2017	2018	2019	2020	2021
2015	-		-	-	-	-	-	-
2016	-			-	-	-	-	-
2017	-				-	-	-	-
2018	-					-	-	-
2019	477,550						41,463	41,463
2020	1,983,100							172,183
2021	1,530,800							
Total Annual Debt Charges	**3,991,450**	-	-	-	-	-	41,463	213,646

Appendix C-3
Township of Wellington-North
Water Service
Schedule of Growth Related Debenture Repayments
Inflated $

Debenture Year	Principal (Inflated)	Forecast						
		2015	2016	2017	2018	2019	2020	2021
2015	-		-	-	-	-	-	-
2016	-			-	-	-	-	-
2017	-				-	-	-	-
2018	-					-	-	-
2019	314,450						27,302	27,302
2020	961,900							83,517
2021	268,200							
Total Annual Debt Charges	**1,544,550**	-	-	-	-	-	27,302	110,819

Appendix C-4
Township of Wellington-North
Water Service
Water Reserves/ Reserve Funds Continuity
Inflated $

Description	2015	2016	2017	2018	2019	2020	2021
Opening Balance	2,579,093	2,639,658	2,898,541	3,087,244	1,774,110	557,661	680,272
Transfer from Operating	840,600	829,883	818,702	850,866	883,551	1,022,612	886,387
Transfer to Capital	780,035	571,000	630,000	2,164,000	2,100,000	900,000	1,000,000
Transfer to Operating	-	-	-	-	-	-	-
Closing Balance	2,639,658	2,898,541	3,087,244	1,774,110	557,661	680,272	566,659

Appendix C-5
Township of Wellington-North
Water Service
Water Development Charges Reserve Fund Continuity

Inflated $

Description	2015	2016	2017	2018	2019	2020	2021
Opening Balance	329,415	259,703	115,059	216,862	322,206	25,184	53,341
Development Charge Proceeds	90,183	96,655	98,598	100,583	102,605	104,671	122,242
Transfer to Capital	163,733	243,000	-	-	400,000	50,000	
Transfer to Operating	-	-	-	-	-	27,302	110,819
Closing Balance	255,865	113,358	213,657	317,444	24,812	52,553	64,763
Interest	3,838	1,700	3,205	4,762	372	788	971
Required from Development Charges	163,733	243,000	-	-	714,450	1,011,900	268,200

Appendix C-6
Township of Wellington-North
Water Service
Water Lifecycle Reserve Fund Continuity

Inflated $

Description	2015	2016	2017	2018	2019	2020	2021
Opening Balance	513,018	808,974	1,109,368	1,414,269	1,723,743	109,359	110,999
Transfer from Operating	284,000	284,000	284,000	284,000	284,000	150,000	150,000
Transfer to Capital	-	-	-	-	1,900,000	150,000	150,000
Transfer to Operating	-	-	-	-	-	-	-
Closing Balance	797,018	1,092,974	1,393,368	1,698,269	107,743	109,359	110,999
Interest	11,955	16,395	20,901	25,474	1,616	1,640	1,665

Appendix C-7
Township of Wellington-North
Water Services
Operating Budget Forecast
Inflated $

Description	Forecast						
	2015	2016	2017	2018	2019	2020	2021
Expenditures							
Salaries & Benefits	-	-	-	-	-	-	-
WW-Salaries - Supt.	22,400	22,800	23,300	23,800	24,300	24,800	25,300
WW-ADM Salaries/Wages	153,000	156,100	159,200	162,400	165,600	168,900	172,300
WW-Training Salaries/Wages	13,300	13,600	13,900	14,200	14,500	14,800	15,100
WW-Locates Salaries/Wages	81,600	83,200	84,900	86,600	88,300	90,100	91,900
WW-Well Operation Salaries/Wages	122,400	124,800	127,300	129,800	132,400	135,000	137,700
WW-Main/Service/Mtce Salaries/Wages	14,300	14,600	14,900	15,200	15,500	15,800	16,100
WW-Hydrant Mtce Salaries/Wages	10,200	10,400	10,600	10,800	11,000	11,200	11,400
WW-LEAD TESTING	-	-	-	-	-	-	-
WW-Benefits	109,100	111,300	113,500	115,800	118,100	120,500	122,900
	-	-	-	-	-	-	-
Expenditures	-	-	-	-	-	-	-
WW-Salaries (Works Employees)	13,300	13,600	13,900	14,200	14,500	14,800	15,100
WW-Materials & Supplies	126,000	132,300	138,900	145,800	153,100	160,800	168,800
WW-Meters & Hardware	3,000	3,100	3,200	3,300	3,400	3,500	3,600
WW-Testing/Sampling	25,500	26,000	26,500	27,000	27,500	28,100	28,700
WW - Water Tower Inspection & Mtce	32,600	33,300	34,000	34,700	35,400	36,100	36,800
WW-Backflow Preventer Testing	25,000	25,500	26,000	26,500	27,000	27,500	28,100
WW-Utilities	-	-	-	-	-	-	-
WW - Meter/Backflow preventer maintenance	9,200	9,400	9,600	9,800	10,000	10,200	10,400
WW-Water Testing (Lead)	500	500	500	500	500	500	500
WW - Leak Detection	3,200	3,300	3,400	3,500	3,600	3,700	3,800
WW - Property Expense	12,200	12,400	12,600	12,900	13,200	13,500	13,800
WW - Well Mainenance	51,000	52,000	53,000	54,100	55,200	56,300	57,400
WW - Advertising	500	500	500	500	500	500	500
WW - Audit Fee	2,000	2,000	2,000	2,000	2,000	2,000	2,000
WW-Insurance	13,400	13,700	14,000	14,300	14,600	14,900	15,200
WW - Insurance Claims Deductible	2,400	2,400	2,400	2,400	2,400	2,400	2,400
WW-Consulting/Engineering	35,700	36,400	37,100	37,800	38,600	39,400	40,200
WW - Drinking Water Quality Management Standards	5,100	5,200	5,300	5,400	5,500	5,600	5,700
WW - Memberships	1,000	1,000	1,000	1,000	1,000	1,000	1,000
WW-Conferences, training & travel	16,000	16,300	16,600	16,900	17,200	17,500	17,900
WW-Safety Clothing Allowance	1,200	1,200	1,200	1,200	1,200	1,200	1,200
WW-Telephone	9,100	9,300	9,500	9,700	9,900	10,100	10,300
WW-Services & Rents(HEC Billings)	54,100	55,200	56,300	57,400	58,500	59,700	60,900
WW - Bad Debts	1,600	1,600	1,600	1,600	1,600	1,600	1,600
WW - NON-TCA Expenses	-	-	-	-	-	-	-
WW - Amortization Expense	-	-	-	-	-	-	-
WW-Truck Mtce/Mileage	27,000	27,500	28,100	28,700	29,300	29,900	30,500
MF WW-Well #3 (Mtce & hydro)	13,100	13,800	14,500	15,200	16,000	16,800	17,600
MF WW-Well #4 (Mtce & hydro)	7,700	8,100	8,500	8,900	9,300	9,800	10,300
MF WW-Well #5 (Mtce & hydro)	17,700	18,600	19,500	20,500	21,500	22,600	23,700
MF WW-Well #6 (Mtce & hydro)	8,100	8,500	8,900	9,300	9,800	10,300	10,800
AV WW-Well #1(Mtce & hydro)	2,600	2,700	2,800	2,900	3,000	3,200	3,400
AV WW-Well #5 (Mtce & hydro)	3,500	3,700	3,900	4,100	4,300	4,500	4,700
AV WW-Well #7 & 7B(Mtce & hydro)	10,900	11,400	12,000	12,600	13,200	13,900	14,600
WW - AV WW - Well #8A & 8B Mtce/Utilities	20,500	20,900	21,300	21,700	22,100	22,500	23,000
Sub Total Operating	1,081,000	1,108,200	1,136,200	1,165,000	1,194,600	1,225,500	1,257,200

Appendix C-7
Township of Wellington-North
Water Services
Operating Budget Forecast
Inflated $

Description	Forecast						
	2015	2016	2017	2018	2019	2020	2021
Capital-Related							
Existing Debt (Principal) - Growth Related							
Existing Debt (Interest) - Growth Related							
New Growth Related Debt (Principal)	-	-	-	-	-	16,296	66,717
New Growth Related Debt (Interest)	-	-	-	-	-	11,006	44,102
Existing Debt (Principal) - Non-Growth Related	14,976	15,392	16,120	16,848	17,888	6,580	6,811
Existing Debt (Interest) - Non-Growth Related	9,228	8,628	7,962	7,232	6,433	4,444	4,214
New Non-Growth Related Debt (Principal)	-	-	-	-	-	24,749	128,390
New Non-Growth Related Debt (Interest)	-	-	-	-	-	16,714	85,257
Transfer to Capital	-	-	-	-	-	-	-
Transfer to Capital Reserve	840,600	829,883	818,702	850,866	883,551	1,022,612	886,387
Sub Total Capital Related	864,804	853,904	842,784	874,946	907,872	1,102,401	1,221,877
Total Expenditures	1,945,804	1,962,104	1,978,984	2,039,946	2,102,472	2,327,901	2,479,077
Revenues							
Base Charge	-	-	-	-	-	-	-
WW-Interfunctional Transfer	15,800	15,800	15,800	15,800	15,800	15,800	15,800
WW - Meter & Backflow Fee	50,000	50,000	50,000	50,000	50,000	50,000	50,000
WW - Misc Revenue	-	-	-	-	-	-	-
WW-Service Connection Fees	9,500	9,500	9,500	9,500	9,500	9,500	9,500
WW - Connection Rate(Admin Fee)	-	-	-	-	-	-	-
WW-Meters & Hardware	500	500	500	500	500	500	500
Contributions from Development Charges Reserve Fund	-	-	-	-	-	27,302	110,819
Contributions from Reserves / Reserve Funds	-	-	-	-	-	-	-
Total Operating Revenue	75,800	75,800	75,800	75,800	75,800	103,102	186,619
Water Billing Recovery - Operating	1,870,004	1,886,304	1,903,184	1,964,146	2,026,672	2,224,799	2,292,458
Lifecycle Reserve Contribution ($)	284,000	284,000	284,000	284,000	284,000	150,000	150,000
Water Billing Recovery - Total	**2,154,004**	**2,170,304**	**2,187,184**	**2,248,146**	**2,310,672**	**2,374,799**	**2,442,458**

Appendix C-8
Township of Wellington-North
Water Services
Water Rate Forecast
Inflated $

Residential & Mom-Residential (I.C.I.) Flat Rates

Description	2015	2016	2017	2018	2019	2020	2021
Total Water Billing Recovery	1,554,128	1,570,428	1,587,308	1,636,273	1,686,561	1,738,206	1,793,133
Total Consumption (m^3)	516,383	521,481	526,762	532,042	537,322	542,603	548,429
Constant Rate	**3.01**	**3.01**	**3.01**	**3.08**	**3.14**	**3.20**	**3.27**
Annual Percentage Change	**0%**	**0%**	**0%**	**2%**	**2%**	**2%**	**2%**
Residential Flat Rate - Annual (rounded)	**548**	**548**	**549**	**560**	**572**	**583**	**595**
Non-Residential (I.C.I.) Flat Rate - Annual (rounded)	**657**	**657**	**658**	**671**	**685**	**699**	**714**

Non-Residential (I.C.I.) Volume Rates

Description	2015	2016	2017	2018	2019	2020	2021
Total Water Billing Recovery	599,876	599,876	599,876	611,873	624,111	636,593	649,325
Total Billable Volumes (m^3)	298,446	298,446	298,446	298,446	298,446	298,446	298,446
Constant Rate for Metered Customers	**2.01**	**2.01**	**2.01**	**2.05**	**2.09**	**2.13**	**2.18**
Annual Percentage Change	**0%**	**0%**	**0%**	**2%**	**2%**	**2%**	**2%**

Appendix D – Detailed Wastewater Rate Calculations

Appendix D-1
Township of Wellington-North
Wastewater Service
Capital Budget Forecast
Inflated $

Description	Total	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Capital Expenditures								
Miller/John/North Water St	368,000	368,000	-	-	-	-	-	-
King St W (Main- Queen St W) eng & const	150,000	19,000	131,000	-	-	-	-	-
Eliza St. (Frederick St E-Bellefield Cr) eng. & const	239,000	30,000	209,000	-	-	-	-	-
2007 Pick Up Truck Replacement	5,000	5,000	-	-	-	-	-	-
Francis St (Charles St W- George St) eng & construction	270,000	-	34,000	236,000	-	-	-	-
James St (Queen St W - North Water St) eng & const	336,000	-	42,000	294,000	-	-	-	-
Elgin St (Wellington St- King St W) eng & const	152,000	-	19,000	133,000	-	-	-	-
2008 Pick Up Truck Replacement	5,000	-	5,000	-	-	-	-	-
Cork St. (Waterloo- Princess St)	35,000	-	35,000	-	-	-	-	-
South Water St PS/Sanitary Main	810,000	-	-	810,000	-	-	-	-
Charles St E (George St-Isabella St) eng & const	169,000	-	-	21,000	148,000	-	-	-
Durham St E	68,000	-	-	68,000	-	-	-	-
Fergus St (King St E- Wellington St E)eng & const	169,000	-	-	21,000	148,000	-	-	-
Scada Upgrades at MFWWTP	175,000	-	-	175,000	-	-	-	-
Williams St (Queen St- N. Water St) eng & const	376,000	-	-	-	47,000	329,000	-	-
Walton St (Clark St- Tucker St) eng & const	150,000	-	-	-	19,000	131,000	-	-
2010 Pick Up Truck Replacement	5,000	-	-	-	5,000	-	-	-
Isabella St (Frederick St- John Eliza) eng	53,000	-	-	-	-	53,000	-	-
John St. (Queen-Waterloo St) eng	24,000	-	-	-	-	24,000	-	-
	-	-	-	-	-	-	-	-
Growth Related:	-	-	-	-	-	-	-	-
Wastewater Facilities	-	-	-	-	-	-	-	-
Re-Rating of Arthur WPCP Including Lagoon Expansion	10,067,000	-	3,290,000	3,355,000	3,422,000	-	-	-
	-	-	-	-	-	-	-	-
Arthur:	-	-	-	-	-	-	-	-
AV Frederick St.(Joint Project with County)	639,000	639,000	-	-	-	-	-	-
Wells St. (McCauley to Domville)	680,000	-	-	-	-	-	-	680,000
	-	-	-	-	-	-	-	-
Mount Forest:	-	-	-	-	-	-	-	-
Sligo Road (Chruch St. to London Road)	516,000	-	-	-	-	-	516,000	-
London Road (Sligo Rd. to Wellington St.)	764,000	-	-	-	-	-	764,000	-
Durham St. (London Rd. Westerly)	51,000	-	-	-	-	-	51,000	-
Bentley St.	746,000	-	-	-	-	-	-	746,000
Bristol St	720,000	-	-	-	-	-	-	720,000
	-	-	-	-	-	-	-	-
Studies:	-	-	-	-	-	-	-	-
Water & Wastewater Rate Study	21,000	10,000	-	-	-	-	11,000	-
	-	-	-	-	-	-	-	-
Lifecycle:	-	-	-	-	-	-	-	-
Wastewater Facilities	391,000	-	-	-	-	128,000	130,000	133,000
Arthur Lagoons	-	-	-	-	-	-	-	-
Arthur Sewer Inventory	-	-	-	-	-	-	-	-
Mt Forest Sewer Inventory	-	-	-	-	-	-	-	-
Total Capital Expenditures	18,154,000	1,071,000	3,765,000	5,113,000	3,789,000	665,000	1,472,000	2,279,000

Appendix D-1
Township of Wellington-North
Wastewater Service
Capital Budget Forecast
Inflated $

Description	Total	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Capital Financing								
Provincial/Federal Grants	319,434	319,434	-	-	-	-	-	-
Unused Capital	617,034	617,034	-	-	-	-	-	-
Development Charges Reserve Fund	9,556,409	70,014	2,796,500	2,851,750	1,919,444	-	820,300	1,098,401
Non-Growth Related Debenture Requirements	-	-	-	-	-	-	-	-
Growth Related Debenture Requirements	1,968,855	-	-	-	989,256	-	-	979,599
Operating Contributions	-	-	-	-	-	-	-	-
Lifecycle Reserve Fund	1,672,250	-	-	561,250	720,000	128,000	130,000	133,000
Wastewater Reserve	4,020,018	64,518	968,500	1,700,000	160,300	537,000	521,700	68,000
Total Capital Financing	18,154,000	1,071,000	3,765,000	5,113,000	3,789,000	665,000	1,472,000	2,279,000

Appendix D-2
Township of Wellington-North
Wastewater Service
Schedule of Non-Growth Related Debenture Repayments
Inflated $

Debenture Year	Principal (Inflated)	Forecast						
		2015	2016	2017	2018	2019	2020	2021
2015	-		-	-	-	-	-	-
2016	-			-	-	-	-	-
2017	-				-	-	-	-
2018	-					-	-	-
2019	-						-	-
2020	-							-
2021	-							
Total Annual Debt Charges	**-**	-	-	-	-	-	-	-

Appendix D-3
Township of Wellington-North
Wastewater Service
Schedule of Growth Related Debenture Repayments
Inflated $

Debenture Year	Principal (Inflated)	Forecast						
		2015	2016	2017	2018	2019	2020	2021
2015	-		-	-	-	-	-	-
2016	-			-	-	-	-	-
2017	-				-	-	-	-
2018	989,256					85,892	85,892	85,892
2019	-						-	-
2020	-							-
2021	979,599							
Total Annual Debt Charges	**1,968,855**	-	-	-	-	85,892	85,892	85,892

Appendix D-4
Township of Wellington-North
Wastewater Service
Wastewater Reserves/ Reserve Funds Continuity
Inflated $

Description	2015	2016	2017	2018	2019	2020	2021
Opening Balance	5,611,000	6,217,601	4,709,214	1,196,553	208,382	419,162	927,665
Transfer from Operating	671,119	665,649	658,472	703,337	747,780	1,217,744	1,268,823
Loan to Development Charges	-	1,205,536	2,471,133	1,531,209		187,541	712,646
Transfer to Capital	64,518	968,500	1,700,000	160,300	537,000	521,700	68,000
Transfer to Operating	-	-	-	-	-	-	-
Closing Balance	6,217,601	4,709,214	1,196,553	208,382	419,162	927,665	1,415,842

Appendix D-5
Township of Wellington-North
Wastewater Service
Wastewater Development Charges Reserve Fund Continuity
Inflated $

Description	2015	2016	2017	2018	2019	2020	2021
Opening Balance	921,653	1,217,806	-	-	-	314,748	-
Development Charge Proceeds	348,170	373,158	380,617	388,235	395,989	403,903	471,648
Loan from Wastewater Reserve	-	1,205,536	2,471,133	1,531,209	-	187,541	712,646
Transfer to Capital	70,014	2,796,500	2,851,750	1,919,444		820,300	1,098,401
Transfer to Operating	-	-	-	-	85,892	85,892	85,892
Closing Balance	1,199,809	-	-	-	310,096	-	-
Interest	17,997	-	-	-	4,651	-	-
Required from Development Charges	70,014	2,796,500	2,851,750	2,908,700	-	820,300	2,078,000

Appendix D-6
Township of Wellington-North
Wastewater Service
Wastewater Lifecycle Reserve Fund Continuity
Inflated $

Description	2015	2016	2017	2018	2019	2020	2021
Opening Balance	467,544	707,594	951,244	628,881	140,551	245,777	350,550
Transfer from Operating	229,593	229,593	229,593	229,593	229,593	229,593	229,593
Transfer to Capital	-	-	561,250	720,000	128,000	130,000	133,000
Transfer to Operating	-	-	-	-	-	-	-
Closing Balance	697,137	937,187	619,587	138,474	242,144	345,370	447,143
Interest	10,457	14,058	9,294	2,077	3,632	5,181	6,707

Appendix D-7
Township of Wellington-North
Wastewater Services
Operating Budget Forecast
Inflated $

Description	Forecast						
	2015	2016	2017	2018	2019	2020	2021
Expenditures							
Operating Costs							
SS-Salaries Corey, Ed, Supt.	41,400	42,200	43,000	43,900	44,800	45,700	46,600
SS-WNP Labour/Mtce	200	200	200	200	200	200	200
SS-Benefits	10,300	10,500	10,700	10,900	11,100	11,300	11,500
SS-Materials/Supplies/Rent	36,800	38,600	40,500	42,500	44,600	46,800	49,100
SS-Testing/Sampling	5,100	5,200	5,300	5,400	5,500	5,600	5,700
SS - Sewer Inspections (Camera)	5,100	5,200	5,300	5,400	5,500	5,600	5,700
SS-Pumping Stn -Utilities & Mtce - A & MF	55,600	56,700	57,800	59,000	60,200	61,400	62,600
SS- Property Expense	37,700	38,500	39,300	40,100	40,900	41,700	42,500
SS-Arthur Disposal Mtce	219,300	223,700	228,200	232,800	237,500	242,300	247,100
SS-MF New Disposal/Storage/Utilities/Mtce	193,700	197,600	201,600	205,600	209,700	213,900	218,200
SS - Audit Fee	1,000	1,000	1,000	1,000	1,000	1,000	1,000
SS-Insurance	13,800	14,100	14,400	14,700	15,000	15,300	15,600
SS-Consultants Fees	12,200	12,400	12,600	12,900	13,200	13,500	13,800
SS - Environmental Assessment	102,000	104,000	106,100	108,200	110,400	112,600	114,900
SS - Memberships	200	200	200	200	200	200	200
SS-Conferances, training & travel	7,700	7,900	8,100	8,300	8,500	8,700	8,900
SS-Safety Clothing Allowance	1,000	1,000	1,000	1,000	1,000	1,000	1,000
SS-Telephone	9,200	9,400	9,600	9,800	10,000	10,200	10,400
SS-Services (WNP Billing only)	42,200	43,000	43,900	44,800	45,700	46,600	47,500
SS - Bad Debts	-	-	-	-	-	-	-
SS - NON-TCA Expenses	-	-	-	-	-	-	-
SS - Amortization Expense	-	-	-	-	-	-	-
SS-Truck Mtce/Mileage	9,000	9,200	9,400	9,600	9,800	10,000	10,200
SS-Salaries (Works Employees)	2,300	2,300	2,300	2,300	2,300	2,300	2,300
SS-Arthur MOE Operating (OCWA)	204,000	208,100	212,300	216,500	220,800	225,200	229,700
SS-MF MOE Operating (OCWA)	219,500	223,900	228,400	233,000	237,700	242,500	247,400
SS-Interfunctional Transfer	11,700	11,700	11,700	11,700	11,700	11,700	11,700
Sub Total Operating	1,241,000	1,266,600	1,292,900	1,319,800	1,347,300	1,375,300	1,403,800

Appendix D-7
Township of Wellington-North
Wastewater Services
Operating Budget Forecast
Inflated $

Description	Forecast						
	2015	2016	2017	2018	2019	2020	2021
Capital-Related							
Existing Debt (Principal) - Growth Related							
Existing Debt (Interest) - Growth Related							
New Growth Related Debt (Principal)	-	-	-	-	51,268	53,063	54,920
New Growth Related Debt (Interest)	-	-	-	-	34,624	32,830	30,972
Existing Debt (Principal) - Non-Growth Related	248,577	260,083	274,236	288,932	306,337		
Existing Debt (Interest) - Non-Growth Related	173,124	160,359	146,630	131,922	116,161		
New Non-Growth Related Debt (Principal)	-	-	-	-	-	-	-
New Non-Growth Related Debt (Interest)	-	-	-	-	-	-	-
Transfer to Capital	-	-	-	-	-	-	-
Transfer to Capital Reserve	671,119	665,649	658,472	703,337	747,780	1,217,744	1,268,823
Sub Total Capital Related	1,092,820	1,086,092	1,079,338	1,124,191	1,256,171	1,303,636	1,354,715
Total Expenditures	2,333,820	2,352,692	2,372,238	2,443,991	2,603,471	2,678,936	2,758,515
Revenues							
Base Charge	-	-	-	-	-	-	-
Other Revenue	-	-	-	-	-	-	-
SS - Misc Revenue	2,000	2,000	2,000	2,000	2,000	2,000	2,000
SS-Service Connection Fees	9,000	9,000	9,000	9,000	9,000	9,000	9,000
SS - Connection Rate (Admin Fee)	-	-	-	-	-	-	-
Contributions from Development Charges Reserve Fund	-	-	-	-	85,892	85,892	85,892
Contributions from Reserves / Reserve Funds	-	-	-	-	-	-	-
Total Operating Revenue	11,000	11,000	11,000	11,000	96,892	96,892	96,892
Wastewater Billing Recovery - Operating	2,322,820	2,341,692	2,361,238	2,432,991	2,506,578	2,582,044	2,661,623
Lifecycle Reserve Contribution ($)	229,593	229,593	229,593	229,593	229,593	229,593	229,593
Wastewater Billing Recovery - Total	**2,552,413**	**2,571,285**	**2,590,831**	**2,662,584**	**2,736,171**	**2,811,637**	**2,891,216**

Appendix D-8
Township of Wellington-North
Wastewater Services
Wastewater Rate Forecast
Inflated $

Residential and Non-Residential (I.C.I.) Flat Rates

Description	2015	2016	2017	2018	2019	2020	2021
Total Wastewater Billing Recovery	1,844,738	1,863,610	1,883,156	1,940,756	1,999,907	2,060,647	2,125,206
Total Consumption (m^3)	498,357	503,455	508,736	514,016	519,296	524,577	530,403
Annual Percentage Change	**0%**	**0%**	**0%**	**2%**	**2%**	**2%**	**2%**
Residential Flat Rate - Annual (rounded)	**674**	**674**	**674**	**687**	**701**	**715**	**730**
Non-Residential (I.C.I.) Flat Rate - Annual (rounded)	**808**	**808**	**808**	**824**	**841**	**857**	**875**

Non-Residential (I.C.I.) Volume Rates

Description	2015	2016	2017	2018	2019	2020	2021
Total Wastewater Billing Recovery	707,675	707,675	707,675	721,828	736,265	750,990	766,010
Total Billable Volume (m^3)	286,508	286,508	286,508	286,508	286,508	286,508	286,508
Constant Rate	**2.47**	**2.47**	**2.47**	**2.52**	**2.57**	**2.62**	**2.67**
Annual Percentage Change	**0%**	**0%**	**0%**	**2%**	**2%**	**2%**	**2%**

Township of Wellington North

Water
Ontario Regulation 453/07 Financial Plan

Financial Plan #113-301A

January 15, 2016

Watson & Associates ECONOMISTS LTD.

Plaza Three
101–2000 Argentia Rd.
Mississauga, Ontario
Canada L5N 1V9

Phone: (905) 272-3600

Fax: (905) 272-3602

e-mail: info@watson-econ.ca

www.watson-econ.ca

Planning for growth

Contents

Page

List of Acronyms

O.Reg.	Ontario Regulation
P.S.A.B.	Public Sector Accounting Board
S.D.W.A.	Safe Drinking Water Act
S.W.S.S.A.	Sustainable Water and Sewage Systems Act

1. Introduction

1.1 Study Purpose

Watson & Associates Economists Ltd. (Watson) was retained by the Township of Wellington North (the Township) to prepare a water financial plan as part of the five submission requirements for the purposes of obtaining a municipal drinking water license as per the Safe Drinking Water Act, 2002. In general, a financial plan requires an in-depth analysis of capital and operating needs, a review of current and future demand versus supply, and consideration of available funding sources. This detailed financial planning and forecasting in regards to the Township's water systems has already been completed and documented by Watson within the "2015 Township of Wellington North Water and Wastewater Rate Study" (2015 Rate Study). The objective of the report provided herein is to convert the findings of the 2015 Rate Study into the prescribed reporting requirements for a financial plan as defined by Ontario Regulation 453/07 (O.Reg. 453/07).

1.2 Background

The Safe Drinking Water Act (S.D.W.A.) was passed in December, 2002 in order to address some of the recommendations made by the Walkerton Inquiry Part II report. One of the main requirements of the Act is the mandatory licensing of municipal water providers. Section 31 (1) specifically states,

> "No person shall,
>
> a) establish a new municipal drinking water system or replace or carry out an alteration to a municipal drinking water system except under the authority of and in accordance with an approval under this Part or a drinking water works permit; or
> b) use or operate a municipal drinking water system that was established before or after this section comes into force except under the authority of and in accordance with an approval under this Part or municipal drinking water licence."

In order to become licensed, a municipality must satisfy five key requirements as per Section 44 (1):

1. Obtain a drinking water works permit;

2. Acceptance of the operational plan for the system based on the Drinking Water Quality Management Standard;
3. Accreditation of the Operating Authority;
4. Prepare and provide a financial plan; and
5. Obtain permit to take water.

The preparation of a financial plan is a key requirement for licensing and as such, must be undertaken by all water providers.

1.2.1 Financial Plan Defined

Section 30 (1) of the S.D.W.A. provides the following definition of financial plans:

> "'financial plans' means,
>
> a) financial plans that satisfy the requirements of subsection (2), but only if,
> (i) Bill 175 (Sustainable Water and Sewage Systems Act, 2002, introduced on September 23, 2002) receives Royal Assent, and
> (ii) sections 3 and 9 of Bill 175 (Sustainable Water and Sewage Systems Act, 2002) are in force, or
>
> b) financial plans that satisfy the requirements prescribed by the Minister, in any other case. 2002, c. 32, s. 30 (1)."

As of time of writing, the Sustainable Water and Sewage Systems Act, 2002 cited above has been repealed (see Section 2.2 of this report); however, the standards that it directs underpin the specific requirements of s.30 (1) part b as they are outlined in O.Reg. 453/07 and which will be examined in detail below.

1.2.2 Financial Plan Requirements – New System

O.Reg. 453/07 provides the following parameters with regard to s.30 (1) part b of the S.D.W.A. for <u>new</u> water systems:

- Financial plans must be approved by Council resolution (or governing body) indicating that the drinking water system is financially viable;
- Financial plans must include a statement that the financial impacts have been considered and apply for a minimum six-year period (commencing when the system first serves the public);
- Financial plans must include detail regarding proposed or projected financial operations itemized by total revenues, total expenses, annual surplus/deficit and

accumulated surplus/deficit (i.e. the components of a "Statement of Operations" as per the Public Sector Accounting Board (P.S.A.B.) for each year in which the financial plans apply;

- Financial plans applicable to two or more solely-owned drinking water systems can be prepared as if they are for one drinking water system;
- Financial plans are to be made available to the public upon request and at no charge;
- If a website is maintained, financial plans are to be made available to the public through publication on the Internet at no charge;
- Notice of the availability of the financial plans is to be given to the public; and
- Financial plans are to be submitted to the Ministry of Municipal Affairs and Housing.

1.2.3 Financial Plan Requirements – Existing System

O.Reg. 453/07 also provides details with regard to s.30 (1) part b of the S.D.W.A. for existing water systems. The requirements for existing systems are summarized as follows:

- Financial plans must be approved by Council resolution (or governing body);
- Financial plans must include a statement that the financial impacts have been considered and apply for a minimum six-year period (commencing in the year of licence expiry);
- Financial plans must include detail regarding proposed or projected financial operations itemized by total revenues, total expenses, annual surplus/deficit and accumulated surplus/deficit (i.e. the components of a "Statement of Operations" as per the P.S.A.B.) for each year in which the financial plans apply;
- Financial plans must present financial position itemized by total financial assets, total liabilities, net debt, non-financial assets, and tangible capital assets (i.e. the components of a "Statement of Financial Position" as per the P.S.A.B.) for each year in which the financial plans apply;
- Gross cash receipts/payments itemized by operating transactions, capital transactions, investing transactions and financial transactions (i.e. the components of a "Statement of Cash Flow" as per the P.S.A.B.) for each year in which the financial plans apply;
- Financial plans applicable to two or more solely-owned drinking water systems can be prepared as if they are for one drinking water system;

- Financial plans are to be made available to the public upon request and at no charge;
- If a website is maintained, financial plans are to be made available to the public through publication on the Internet at no charge;
- Notice of the availability of the financial plans is to be given to the public; and
- Financial plans are to be submitted to the Ministry of Municipal Affairs and Housing.

1.2.4 Financial Plan Requirements - General

Given that the legislation falls under the S.D.W.A., a financial plan is mandatory for water systems and encouraged for wastewater systems. The financial plans shall be for a forecast period of at least six years but longer planning horizons are encouraged. The financial plan is to be completed, approved and submitted at the time of licence renewal (i.e. six months prior to licence expiry). Financial plans may be amended and additional information beyond what is prescribed can be included if deemed necessary.

The financial plans must contain, on the front page, the appropriate financial plan number as set out in Schedule A of the Municipal Drinking Water Licence document.

1.2.5 Public Sector Accounting Board (P.S.A.B.) Requirements

The components of the financial plans indicated by the regulation are consistent with the requirements for financial statement presentation as set out in section PS1200 of the Chartered Professional Accountants Canada (previously Canadian Institute of Chartered Accountants) Public Sector Accounting Handbook:

> "Financial statements should include a Statement of Financial Position, a Statement of Operations, a Statement of Change in Net Debt, and a Statement of Cash Flow."

Both the Statement of Financial Position and the Statement of Operations were required for financial reporting purposes in pre-2009 reporting years; however, the format changed in 2009 to conform to the requirements of PS1200 and PS3150 (see Figures 1-1 and 1-2). Financial statements are now reported on a full accrual accounting basis, which will continue in future years. The accrual accounting method recognizes revenues and expenses in the same period as the activities that give rise to them regardless of when they are actually paid for. Since an exchange of cash is not necessary to report a financial transaction, the accrual method is meant to provide a more accurate picture of financial position. Before 2009, financial results were reported on a modified cash basis of accounting, whereby revenues and expenses are

recognized when cash is paid or received and only certain accrual-type items such as payables and receivables are recognized at year-end. The difference between the methods is in the timing of when transactions are reported. This timing difference has impacted the presentation of the statements in that various accounts have been added or deleted in order to properly report the transactions.

Moreover, since the 2009 fiscal year, additional information relating to the accounting treatment of tangible capital assets is included in annual reporting, as indicated by the requirements under section PS3150. Pre-2009, the costs to acquire, develop and/or construct capital assets were expensed in the year in which they occur. Going forward, tangible capital assets are capitalized so as to create an inventory of the assets owned and to account for their ability to provide future benefits. The reporting of tangible capital assets required further changes to the format of existing financial statements. From a financial planning perspective, this change is significant for water assets as they can represent a significant portion of the Township's total assets.

The Statement of Cash Flow and the Statement of Change in Net Financial Assets/Debt (which is a new statement as of 2009) are required statements going forward. The Statement of Change in Net Financial Assets/Debt reports on whether enough revenue was generated in a period to cover the expenses in the period and whether sufficient resources have been generated to support current and future activities (see Figure 1-3). The Statement of Cash Flow reports on how activities were financed for a given period providing a measure of the changes in cash for that period (see Figure 1-4).

It should be noted that the Statement of Reserves and Reserve Funds and the Statement of Capital, as used by the public sector pre-2009, have been eliminated by the new reporting format. The balances and transactions that make up these two statements have been transferred to either the Statement of Operations or the Statement of Financial Position depending on the nature of the account.

Figure 1-1
Statement of Financial Position

OLD FORMAT (PRE-2009)	2009 AND FUTURE
Assets	**Financial Assets**
Financial Assets	
Cash	Cash
Accounts Receivable	Accounts Receivable
Investments	Investments
Inventory for resale	Inventory for resale
Other Assets	Other Assets
Total Financial Assets	Total Financial Assets
Non-Financial Assets	
Inventory of Supplies	
Prepaid Expenses	
Total Non-Financial Assets	
Liabilities	**Liabilities**
Accounts Payable & Accrued Liabilities	Accounts Payable & Accrued Liabilities
Debt (Principal only)	Debt (Principal only)
Other (DC Reserves-Deferred Revenue)	Other (DC Reserves-Deferred Revenue)
Total Liabilities	Total Liabilities
NET ASSETS	**NET FINANCIAL ASSETS/(DEBT)**
Municipal Position	**Non-Financial Assets**
Fund Balances	Tangible Capital Assets
Current Fund	Inventory of Supplies
Capital Fund	Prepaid Expenses
Reserves and Reserve Funds	Total Non-Financial Assets
Amounts to be Recovered	
From Future Revenues	
From Reserves & Reserve Funds	
TOTAL MUNICIPAL POSITION	**ACCUMULATED SURPLUS/(DEFICIT)**

Figure 1-2
Statement of Operations

OLD FORMAT (PRE-2009)	2009 AND FUTURE
Revenues	**Revenue**
Base Charge Revenue	Base Charge Revenue
Rate Based Revenue	Rate Based Revenue
Transfers from Reserves	Earned DC Revenue
Other Revenue	Other Revenue
Total Revenues	**Total Revenue**
Expenditures	**Expenses**
Operating Expenses	Operating Expenses
	Interest on Debt
	Amortization
Capital	Other
Total Expenditures	**Total Expenses**
Net Revenues for the year	**Annual Surplus/(Deficit)**
Increase (decrease) in amounts to be recovered	**Accum. Surplus/(Deficit), beg. of year**
Change in fund balances	**Accum. Surplus/(Deficit), end of year**

Figure 1-3
Statement of Change in Net Financial Assets/Debt

2009 AND FUTURE

Annual Surplus/(Deficit) Less: Acquisition of tangible capital assets Add: Amortization of tangible capital assets (Gain)/Loss on disposal of tangible capital assets Add: Proceeds on sale of tangible capital assets Add: Write-downs of tangible capital assets
Sub-total
Less: Acquisition of supplies inventory Less: Acquisition of prepaid expenses Add: Consumption of supplies inventory Add: Use of prepaid expenses
Sub-total
(Increase)/Decrease in net financial assets/net debt
Net financial assets/(net debt), beginning of year
Net financial assets/(net debt), end of year

Figure 1-4
Statement of Cash Flow[1]

DIRECT METHOD	INDIRECT METHOD
Operating Transactions	**Operating Transactions**
Cash received from:	Annual Surplus/(Deficit)
Water Operations	Add: Amortization of Tangible Capital Assets
Less: Cash paid for:	Loss/(Gain) on sale of Tangible Capital Assets
Operating expenses	Decrease/(Increase) in Accounts Receivable
Finance charges	Increase/(Decrease) in Accounts Payable
	Decrease/(Increase) in Inventories for sale
	Other items
Cash provided by operating transactions	**Cash provided by operating transactions**
Capital Transactions	**Capital Transactions**
Proceeds on sale of tangible capital assets	Proceeds on sale of tangible capital assets
Less: Cash used to acquire tangible capital assets	Less: Cash used to acquire tangible capital assets
Cash applied to capital transactions	**Cash applied to capital transactions**
Investing Transactions	**Investing Transactions**
Proceeds from investments	Proceeds from investments
Less: Cash used to acquire investments	Less: Cash used to acquire investments
Cash provided by (applied to) investing transactions	**Cash provided by (applied to) investing transactions**
Financing Transactions	**Financing Transactions**
Proceeds from debt issue	Proceeds from debt issue
Less: Debt repayment (Principal only)	Less: Debt repayment (Principal only)
Cash applied to financing transactions	**Cash applied to financing transactions**
Increase in cash and cash equivalents	**Increase in cash and cash equivalents**
Cash and cash equivalents, beginning of year	**Cash and cash equivalents, beginning of year**
Cash and cash equivalents, end of year	**Cash and cash equivalents, end of year**

[1] The statement of cash flow can be prepared using either the direct or indirect methods. The indirect method derives cash flow by making adjustments to the net surplus/deficit reported on the statement of operations. The direct method calculates cash flow identifying the direct sources and uses of cash.

2. Sustainable Financial Planning

2.1 Introduction

In general, sustainability refers to the ability to maintain a certain position over time. While the S.D.W.A. requires a declaration of the financial plan's sustainability, it does not give a clear definition of what would be considered sustainable. Instead, the Ministry of the Environment released a guideline ("Towards Financially Sustainable Drinking-Water and Wastewater Systems") that provides possible approaches to achieving sustainability. The Province's Principles of Financially Sustainable Water and Wastewater Services are provided below:

Principle #1: Ongoing public engagement and transparency can build support for, and confidence in, financial plans and the system(s) to which they relate.

Principle #2: An integrated approach to planning among water, wastewater, and 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: Lifecycle planning with mid-course corrections is preferable to planning over the short term, or not planning at all.

Principle #5: An asset management plan is a key input to the development of a financial plan.

Principle #6: A sustainable level of revenue allows for reliable service that meets or exceeds environmental protection standards, while providing sufficient resources for future rehabilitation and replacement needs.

Principle #7: Ensuring users pay for the services they are provided leads to equitable outcomes and can improve conservation. In general, metering and the use of rates can help ensure users pay for services received.

Principle #8: Financial plans are "living" documents that require continuous improvement. Comparing the accuracy of financial projections with actual results can lead to improved planning in the future.

Principle #9: Financial plans benefit from the close collaboration of various groups, including engineers, accountants, auditors, utility staff and municipal Council.

2.2 Sustainable Water and Sewage Systems Act

The Sustainable Water and Sewage Systems Act (S.W.S.S.A.) was passed on December 13, 2002. The intent of the Act was to introduce the requirement for municipalities to undertake an assessment of the "full cost" of providing their water and the wastewater services. In total, there were 40 areas within the Act to which the Minister could have made regulations. It is noted that, the regulations, which accompany the Act, were not issued and the Act was repealed on December 31, 2012.

2.3 Water Opportunities Act, 2010 (Bill 72)

Since the passage of the Safe Drinking Water Act, changes and refinements to the legislation have been introduced, including Bill 72. Bill 72 was introduced into legislation on May 18, 2010 and received Royal Assent on November 29, 2010 as the Water Opportunities Act.

The purposes of the Water Opportunities Act are to foster innovative water, wastewater and storm water technologies, services and practices; to create opportunities for economic development and clean-technology jobs; and to conserve and sustain water resources. To achieve this, Bill 72 provides for the creation of performance targets (financial, operational and maintenance related) which will vary by service type and location, and the required submission of conservation and sustainability plans for water, wastewater and storm water.

The sustainability plan in Bill 72 expands on interim legislation for financial plans included in O.Reg 453/07, to include the following:

- an asset management plan for the physical infrastructure;
- financial plan;
- water conservation plan (for water service only);
- a risk assessment;
- a strategy for maintaining and improving the services; and
- additional information considered advisable.

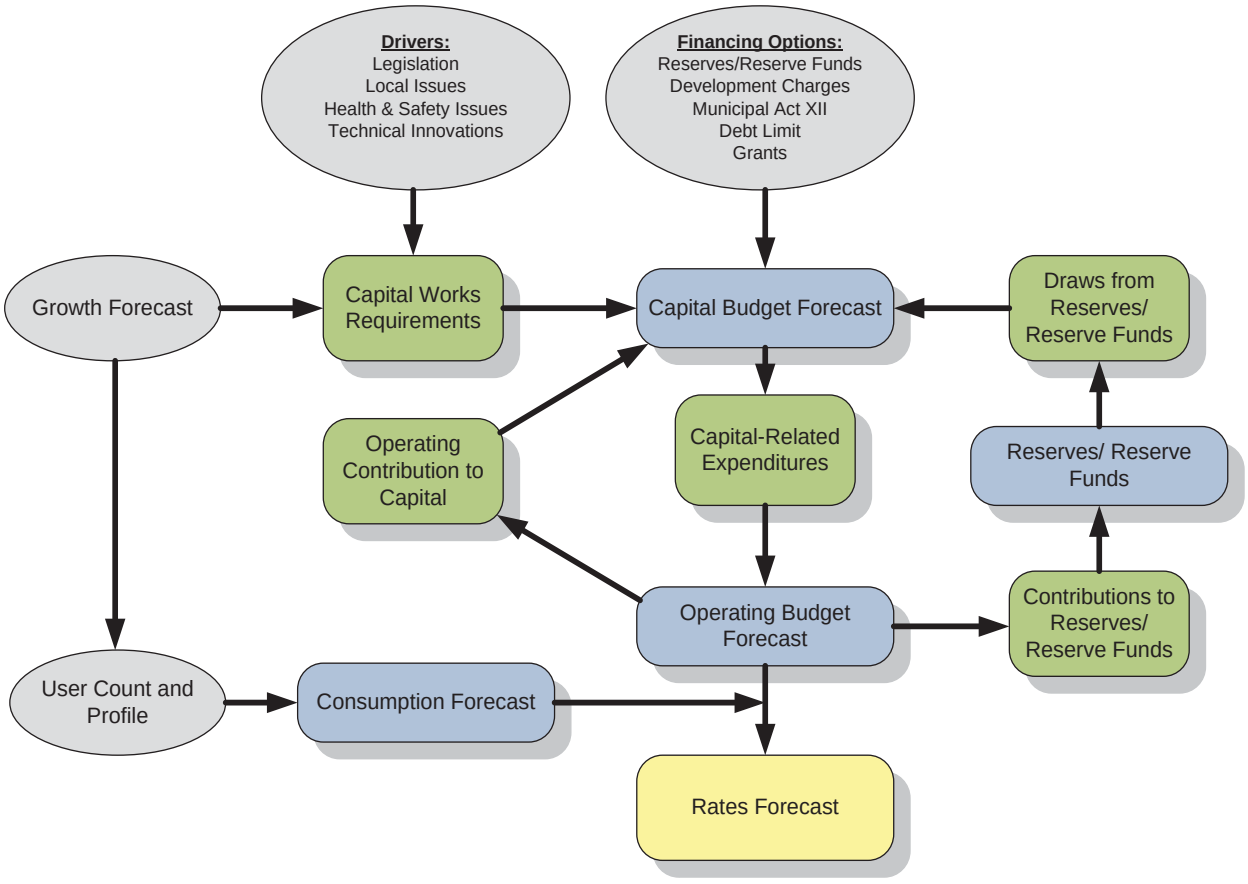
Where a Board has jurisdiction over a service, the plan (and any plan amendments) must be approved by the municipality in which the municipal service is provided, before submission to the Minister. The Minister may also direct preparation of joint or partially joint plans.

Regulations (still forthcoming) will prescribe details with regard to any time periods or time limits, contents of the plans, identifying which portions of the plan will require certification, the public consultation process (if required), limitations updates and refinements.

2.4 Water and Wastewater Rate Study

As noted above, Watson has already completed extensive financial planning as documented in the 2015 Rate Study conducted on behalf of the Township. The study process was designed to address "full cost" principles and reflect the guiding principles toward sustainable financial planning. Figure 2-1 below summarizes the process.

Figure 2-1
Water and Wastewater Rate Calculation Process



As a result of employing this process, the 2015 Rate Study provides a sound financial plan for the Township's water systems by providing:

- A detailed assessment of current and future capital needs including an analysis of potential funding sources*;*
- An analysis of fixed and variable operating costs in order to determine how they will be impacted by evolving infrastructure needs and system growth*;*
- A review and recommendation on rate structures that ensure revenues are equitable and sufficient to meet system needs*;* and
- A public process that involves ongoing consultation with the main stakeholders including the Township staff, Council, the general public (specifically the users of the systems) and others, with the aim of gaining input and collaboration on the sustainability of the financial plan*.*

The details of the financial plan arising from the 2015 Rate Study are contained in Appendix A.

3. Approach

3.1 Overview

The 2015 Rate Study was prepared on a modified cash basis; therefore, a conversion was required in order to present a full accrual financial plan for the purposes of this report. The conversion process used will help to establish the structure of the financial plan along with the opening balances that will underpin the forecast. This chapter outlines the conversion process utilized and summarizes the adjustments made to prepare the financial plan.

3.2 Conversion Process

The conversion from the existing modified cash basis financial plan to the full accrual reporting format required under O.Reg. 453/07 can be summarized in the following steps:

1. Calculate Tangible Capital Asset Balances;
2. Convert Statement of Operations;
3. Convert Statement of Financial Position;
4. Convert Statement of Cash Flow and Net Assets/Debt; and
5. Verification and Note Preparation.

3.2.1 Calculate Tangible Capital Asset Balances

In calculating tangible capital asset balances, existing and future purchased, developed, and/or contributed assets will need to be considered. For existing water assets, an inventory has already been compiled and summarized within the 2015 Rate Study as well as part of the Township's annual P.S.A.B. 3150 compliance processes. Given the prospective nature of the 2015 Rate Study, replacement cost is provided for each asset; however, historical cost (which is the original cost to purchase, develop or construct each asset) is required for financial reporting purposes. Once historical cost is established, the following calculations are made to determine net book value:

- Accumulated amortization up to the year prior to the first forecast year;
- Amortization expense on existing assets for each year of the forecast period;
- Acquisition of new assets for each year of the forecast period; and
- Disposals and related gains or losses for each year of the forecast period.

Future water capital needs have also been determined and summarized within the 2015 Rate Study. These estimates, however, only represent future assets that the Township anticipates purchasing or constructing without consideration for assets that are contributed by developers and other parties (at no cost or partial cost to the Township). These contributed assets could form a significant part of the infrastructure going forward in terms of the sustainability of the systems as a whole and despite their non-monetary nature; the financial plan may need to be adjusted in order to properly account for these transactions. Once the sequence and total asset acquisition has been determined for the forecast period, annual amortization of these assets for each year is calculated in a similar manner as that used for existing assets.

Once the historical cost, accumulated amortization and amortization expenses are calculated as described above, the total net book value of the tangible capital assets can be determined and recorded on the Statement of Financial Position.

3.2.2 Convert Statement of Operations

As per subsection 1.2.5 above, the new Statement of Operations eliminates and/or adds certain transactions that have been reported differently by municipalities since 2009 (see Figure 3-1). A wide range of adjustments will be considered and will depend on the size and complexity of the systems. For example, the revenues and expenses associated with the now obsolete Statement of Capital and Statement of Reserves and Reserve Funds (see subsection 1.2.5) will need to be adjusted for and included within the Statement of Operations. This includes all non-tangible capital asset costs previously included in the capital statement (i.e. expenses related to various studies) while at the same time eliminating all expenditures incurred to acquire tangible capital assets which will now form part of the tangible capital asset balance discussed in subsection 3.2.1. Transfers to and from reserves are no longer explicitly reported on the Statement of Operations. Instead, these transactions are represented by changes in cash and accumulated surplus. Also, debt repayment costs relating to the principal payment portion only need to be removed, as they no longer qualify as an expense for reporting purposes. Principal payments will now be reported as a decrease in debt liability on the Statement of Financial Position. Finally, expenses relating to tangible capital assets, such as amortization, write-offs and (gain)/loss on disposal of assets, will be reported on the Statement of Operations in order to capture the allocation of the cost of these assets to operating activities over their useful lives.

Figure 3-1
Conversion Adjustments
Statement of Operations (Water)

Modified Cash Basis	Budget 2015	Adjustments DR	Adjustments CR	Full Accrual Budget 2015	Accrual Basis
Revenues					**Revenues**
Rate Based Revenue	2,154,004			2,154,004	Rate Based Revenue
			163,733	163,733	Earned Development Charges Revenue
Other Revenue	75,800		11,955	87,755	Other Revenue
Total Revenues	**2,229,804**			**2,405,492**	**Total Revenues**
Expenditures					**Expenses**
Operating	1,081,000	17,000		1,098,000	Operating Expenses
Capital					
Transfers to Reserves	1,124,600		1,124,600		
Debt Repayment (Principal & Interest)	24,204		14,976	9,228	Interest on Debt
		456,042		456,042	Amortization
Total Expenditures	**2,229,804**			**1,563,270**	**Total Expenses**
Net Expenditures	**-**			**842,222**	**Annual Surplus/(Deficit)**
Increase (decrease) in amounts to be recovered	**-**			17,686,323	Accumulated Surplus/(Deficit), beginning of year
Change in Fund Balances	**-**	**842,222**		**18,528,545**	**Accumulated Surplus/(Deficit), end of year**

TOTAL ADJUSTMENTS	**1,315,264**	**1,315,264**

Note: The combined adjustments above should be balanced and net to $0 (i.e. Total DR = Total CR)

3.2.3 Convert Statement of Financial Position

Once the Statement of Operations has been converted and the net book value of tangible capital assets has been recorded, balances for the remaining items on the Statement of Financial Position are determined and recorded (see Figure 3-2). As noted earlier, the applicable balances from the Statement of Capital and the Statement of Reserve and Reserve Funds will need to be transferred to this statement. The opening/actual balances for the remaining accounts, such as accounts receivable, inventory, accounts payable and outstanding debt (principal only), are recorded and classified according to the structure of the Statement of Financial Position as outlined in PS1200.

It is acknowledged that some of the balances required on the Statement of Financial Position will be consolidated across the Township and, as such, will be difficult to isolate the information that is relevant to water. An example of this is accounts receivable which may be administered centrally by the Finance Department. Ontario Regulation 453/07 allows for the exclusion of these numbers if they are not known at the time of preparing the financial plan. Please refer to the Financial Plan Notes in Chapter 4 for more details.

3.2.4 Convert Statement of Cash Flow and Net Financial Assets/Debt

The Statement of Cash Flow summarizes how the Township financed its activities or, in other words, how the costs of providing services were recovered. The statement is derived using comparative Statement of Financial Position, the current Statement of Operations and other available transaction data.

The Statement of Change in Net Financial Assets/Debt is a new statement which reconciles the difference between the surplus or deficit from current operations and the change in net financial assets/debt for the year. This is significant, as net debt provides an indication of future revenue requirements. In order to complete the Statement of Net Financial Assets/Debt, additional information regarding any gains/losses on disposals of assets, asset write-downs, acquisition/use of supplies inventory and the acquisition use of prepaid expenses, is necessary (if applicable). Although the Statement of Change in Net Financial Assets/Debt is not required under O.Reg. 453/07, it has been included in this report as a further indicator of financial viability.

Figure 3-2
Conversion Adjustments
Statements of Financial Position (Water)

Modified Cash Basis	Budget 2015	Adjustments DR	Adjustments CR	Full Accrual Budget 2015	Accrual Basis
ASSETS					**ASSETS**
Financial Assets					**Financial Assets**
Cash	3,420,232			3,420,232	Cash
Accounts Receivable	445,281			445,281	Accounts Receivable
Total Financial Assets	*3,865,513*			*3,865,513*	*Total Financial Assets*
LIABILITIES					**Liabilities**
Accounts Payable & Accrued Liabilities	157,179			157,179	Accounts Payable & Accrued Liabilities
Gross Long-term Liabilities	190,216			190,216	Debt (Principal only)
Deferred Revenue	259,703			259,703	Deferred Revenue
Total Liabilities	*607,098*			*607,098*	*Total Liabilities*
Net Assets/(Debt)	**3,258,415**			**3,258,415**	**Net Financial Assets/(Debt)**
		15,287,130	17,000	15,270,130	**Non-Financial Assets** Tangible Capital Assets
				15,270,130	**Total Non-Financial Assets**
Municipal Position					
Water Reserves	3,448,631	3,448,631			
Development Charge Reserve Fund	259,703	259,703			
Amounts to be Recovered	(449,919)		449,919		
Total Municipal Position	**3,258,415**		18,528,545	**18,528,545**	**Accumulated Surplus/(Deficit), end of year**

TOTAL ADJUSTMENTS	**18,995,464**	**18,995,464**

Note: The combined adjustments above should be balanced and net to $0 (i.e. Total DR = Total CR)

3.2.5 Verification and Note Preparation

The final step in the conversion process is to ensure that all of the statements created by the previous steps are in balance. The Statement of Financial Position summarizes the resources and obligations of the Township at a set point in time. The Statement of Operations summarizes how these resources and obligations changed over the reporting period. To this end, the accumulated surplus/deficit reported on the Statement of Financial Position should equal the accumulated surplus/deficit reported on the Statement of Operations.

The Statement of Change in Net Financial Assets/Debt and the Statement of Financial Position are also linked in terms of reporting on net financial assets/debt. On the Statement of Financial Position, net financial assets/debt is equal to the difference between financial assets and liabilities and should equal net financial assets/debt as calculated on the Statement of Net Financial Assets/Debt.

While not part of the financial plan, the accompanying notes are important to summarize the assumptions and estimates made in preparing the financial plan. Some of the significant assumptions that need to be addressed within the financial plan are as follows:

a) Opening cash balances – Opening cash balances are necessary to complete the Statement of Cash Flows and balance the Statement of Financial Position. Preferably, opening cash balances should be derived from actual information contained within the Township's ledgers. It may not be possible, however, to extract this information from the ledgers for water alone; therefore, a reasonable proxy will be needed. One approach is to assume that opening cash balances equal ending reserve and reserve fund balances from the previous year adjusted for accrual-based transactions reflected by accounts receivable/payable balances. The following equation outlines this approach:

    Ending Reserve/Reserve Fund Balance
    Plus: Ending Accounts Payable Balance
    Less: Ending Accounts Receivable Balance
    Equals: Approximate Ending Cash Balance

b) Amortization Expense – The method and timing of amortization should be based on the Township's amortization policy. Otherwise, an assumption will need to be made and applied consistently throughout the financial plan.

c) Accumulated Amortization – Will be based on the culmination of accumulated amortization expenses throughout the life of each asset however derived, along with information on construction/acquisition date and useful life obtained from the 2015 Rate Study.

d) Contributed Assets – As noted earlier, contributed assets could represent a significant part of the Township's infrastructure acquisitions. As such, a reasonable estimate of value and timing of acquisition/donation may be required in order to adequately capture these assets. In the case where contributed assets are deemed to be insignificant or unknown, an assumption of "no contributed assets within the forecast period" will be made.

e) Accumulated Surplus – The magnitude of the surplus in this area may precipitate the need for additional explanation especially in the first year of reporting. This Accumulated Surplus captures the historical infrastructure investment which has not been reported in the past but has accumulated to significant levels. It also includes all water reserve and reserve fund balances.

f) Other Revenues – Will represent the recognition of revenues previously deferred (i.e. development charge revenues) and/or accrued revenues (developer contributions) and/or other minor miscellaneous revenues.

4. Financial Plan

4.1 Introduction

The following tables provide the complete financial plan for the Township's water systems. A brief description and analysis of each table is provided below. It is important to note that the financial plan that follows is a forward look at the financial position of the Township's water systems. It is not an audited document[1] and contains various estimates as detailed in the "Notes to the Financial Plan" section below.

4.2 Water Financial Plan

4.2.1 Statement of Financial Position (Table 4-1)

The Statement of Financial Position provides information that describes the assets, liabilities, and accumulated surplus of the Township's water systems. The first important indicator is net financial assets/(debt), which is defined as the difference between financial assets and liabilities. This indicator provides an estimation of the systems' "future revenue requirement." A net financial asset position is where financial assets are greater than liabilities and implies that the systems have the resources to finance future operations. Conversely, a net debt position implies that the future revenues generated by the systems will be needed to finance past transactions as well as future operations. Table 4-1 indicates that at the end of 2015, the Township's water systems will be in a net financial asset position of approximately $3.3 million. From 2016 to 2018, the financial plan forecasts a continuing net financial asset position. However, in 2019 to 2021 the forecast indicates a projected net debt position ranging from approximately $250,000 in 2019 to $4.7 million by 2021. The net debt position during these years are due to the use of significant reserve/reserve fund amounts, as well as debt, to pay for anticipated capital projects.

Another important indicator on the Statement of Financial Position is the tangible capital asset balance. As noted earlier, providing this information is a requirement for municipalities as part of PS3150 compliance and is significant from a financial planning perspective for the following reasons:

- Tangible capital assets such as water mains are imperative to water service delivery;

[1] O.Reg. 453/07 does not require an audited financial plan.

- These assets represent significant economic resources in terms of their historical and replacement costs; therefore, ongoing capital asset management is essential to managing significant replacements and repairs; and
- The annual maintenance required by these assets has an enduring impact on water operational budgets.

In general terms, an increase in the tangible capital asset balance indicates that assets may have been acquired either through purchase by the municipality or donation/ contribution by a third party. A decrease in the tangible capital asset balance can indicate a disposal, write down, or use of assets. A use of assets is usually represented by an increase in accumulated amortization due to annual amortization expenses arising as a result of allocating the cost of the asset to operations over the asset's useful life. Table 4-1 shows tangible capital assets are expected to grow approximately $13.2 million over the forecast period. This indicates that the Township has plans to invest in tangible capital assets in excess of the anticipated use of existing assets over the forecast period.

4.2.2 Statement of Operations (Table 4-2)

The Statement of Operations summarizes the revenues and expenses generated by the water systems for a given period. The annual surplus/deficit measures whether the revenues generated were sufficient to cover the expenses incurred and, in turn, whether net financial assets have been maintained or depleted. Table 4-2 illustrates the ratio of expenses to revenues, although fluctuating to some extent, generally increasing from 65% in 2015 to 81% in 2021. As a result, annual surplus decreases from just over $842,000 in 2015 to just over $497,000 by 2021. This is due to fluctuating earned development charge revenue annually as well as a general increasing trend in amortization expense (from planned asset acquisitions). It is important to note that an annual surplus is beneficial to ensure funding is available to non-expense costs such as tangible capital asset acquisitions, reserve/reserve fund transfers and debt principal payments.

Another important indicator on this statement is accumulated surplus/deficit. An accumulated surplus indicates that the available net resources are sufficient to provide future water services. An accumulated deficit indicates that resources are insufficient to provide future services and that borrowing or rate increases are required to finance annual deficits. From Table 4-2, the financial plan proposes to add approximately $5.2 million to a 2014 accumulated surplus of approximately $17.7 million over the forecast period. This accumulated surplus, as indicated in Table 4-2, is predominantly made up

of reserve and reserve fund balances as well as historical investments in tangible capital assets.

4.2.3 Statement of Change in Net Financial Assets/Debt (Table 4-3)

The Statement of Change in Net Financial Assets/Debt indicates whether revenue generated was sufficient to cover operating and non-financial asset costs (i.e. inventory supplies, prepaid expenses, tangible capital assets, etc.) and in so doing, explains the difference between the annual surplus/deficit and the change in net financial assets/ debt for the period. Table 4-3 indicates that from 2015 to 2017, the forecasted annual surplus/(deficit) exceeds the forecasted tangible capital asset acquisitions (net of amortization for the year) resulting in an increase to net financial assets each year. In each of the other forecast years (i.e. 2018 to 2021), forecasted tangible capital asset acquisitions (net of amortization for the year) exceeds annual surplus resulting in annual decreases in net financial assets. This is a result of more significant capital asset acquisitions forecasted in those years. This reveals the impact of a long-term plan of funding capital through accumulated surplus (i.e. reserves). This is evidenced by the ratio of cumulative annual surplus before amortization to cumulative tangible capital asset acquisitions, increasing from 1.01 in 2015 to 1.40 in 2017, and then decreasing to 0.53 by 2021.[1]

4.2.4 Statement of Cash Flow (Table 4-4)

The Statement of Cash Flow summarizes how water systems are expected to generate and use cash resources during the forecast period. The transactions that provide/use cash are classified as operating, capital, investing and financing activities as shown in Table 4-4. This statement focuses on the cash aspect of these transactions and thus is the link between cash and accrual based reporting. Table 4-4 indicates that cash from operations will be used to fund capital transactions (i.e. tangible capital asset acquisitions), make debt principal payments and build internal reserves and reserve funds over the forecast period. The financial plan projects the cash position of the Township's water systems to reduce from a balance of just over $3.4 million in 2015 to approximately $423,000 by 2021. For further discussions on projected cash balances, please refer to the Notes to the Financial Plan.

[1] A desirable ratio is 1:1 or better.

Table 4-1
Statement of Financial Position: Water Services
UNAUDITED: For Financial Planning Purposes Only
2015-2021

	Notes	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Financial Assets								
Cash	1	3,420,232	3,835,451	4,431,438	3,524,708	388,231	531,876	422,944
Accounts Receivable	1	445,281	448,650	452,140	464,742	477,667	490,924	504,910
Total Financial Assets		3,865,513	4,284,101	4,883,578	3,989,450	865,898	1,022,800	927,854
Liabilities								
Accounts Payable & Accrued Liabilities	1	157,179	161,134	165,205	169,392	173,696	178,189	182,798
Debt (Principal only)	2	190,216	174,824	158,704	141,856	915,968	3,813,342	5,410,424
Deferred Revenue	3	259,703	115,058	216,861	322,206	25,183	53,340	65,733
Total Liabilities		607,098	451,016	540,770	633,454	1,114,847	4,044,871	5,658,955
Net Financial Assets/(Debt)		**3,258,415**	**3,833,085**	**4,342,808**	**3,355,996**	**(248,949)**	**(3,022,071)**	**(4,731,101)**
Non-Financial Assets								
Tangible Capital Assets	4	15,270,130	15,652,413	15,865,464	17,543,158	22,124,659	25,458,905	27,665,123
Total Non-Financial Assets		15,270,130	15,652,413	15,865,464	17,543,158	22,124,659	25,458,905	27,665,123
Accumulated Surplus/(Deficit)	5	**18,528,545**	**19,485,498**	**20,208,272**	**20,899,154**	**21,875,710**	**22,436,834**	**22,934,022**

Financial Indicators	Total Change	2015	2016	2017	2018	2019	2020	2021
1) Increase/(Decrease) in Net Financial Assets	(7,976,252)	13,264	574,670	509,723	(986,812)	(3,604,945)	(2,773,122)	(1,709,030)
2) Increase/(Decrease) in Tangible Capital Assets	13,223,951	828,958	382,283	213,051	1,677,694	4,581,501	3,334,246	2,206,218
3) Increase/(Decrease) in Accumulated Surplus	5,247,699	842,222	956,953	722,774	690,882	976,556	561,124	497,188

Table 4-2
Statement of Operations: Water Services
UNAUDITED: For Financial Planning Purposes Only
2015-2021

	Notes	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Water Revenue								
Rate Based Revenue		2,154,004	2,170,304	2,187,184	2,248,146	2,310,672	2,374,799	2,442,458
Earned Development Charges Revenue	3	163,733	243,000	-	-	400,000	77,302	110,819
Other Revenue	6	87,755	92,194	96,701	101,274	77,416	77,441	77,465
Total Revenues		2,405,492	2,505,498	2,283,885	2,349,420	2,788,088	2,529,542	2,630,742
Water Expenses								
Operating Expenses	Sch. 4-1	1,098,000	1,108,200	1,136,200	1,165,000	1,194,600	1,243,500	1,257,200
Interest on Debt	2	9,228	8,628	7,962	7,232	6,433	32,164	133,572
Amortization	4	456,042	431,717	416,949	486,306	610,499	692,754	742,782
Total Expenses		1,563,270	1,548,545	1,561,111	1,658,538	1,811,532	1,968,418	2,133,554
Annual Surplus/(Deficit)		**842,222**	**956,953**	**722,774**	**690,882**	**976,556**	**561,124**	**497,188**
Accumulated Surplus/(Deficit), beginning of year	5	17,686,323	18,528,545	19,485,498	20,208,272	20,899,154	21,875,710	22,436,834
Accumulated Surplus/(Deficit), end of year		18,528,545	19,485,498	20,208,272	20,899,154	21,875,710	22,436,834	22,934,022

Note 5:

Accumulated Surplus/(Deficit) Reconciliation:		**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**
Reserve Balances								
Reserves: Development Charges		259,703	115,058	216,861	322,206	25,183	53,340	65,733
Reserves: Capital/Other		3,448,631	4,007,909	4,501,512	3,497,852	667,019	791,271	679,323
Total Reserves Balance		**3,708,334**	**4,122,967**	**4,718,373**	**3,820,058**	**692,202**	**844,611**	**745,056**
Less: Debt Obligations and Deferred Revenue		(449,919)	(289,882)	(375,565)	(464,062)	(941,151)	(3,866,682)	(5,476,157)
Add: Tangible Capital Assets	4	15,270,130	15,652,413	15,865,464	17,543,158	22,124,659	25,458,905	27,665,123
Total Ending Balance		**18,528,545**	**19,485,498**	**20,208,272**	**20,899,154**	**21,875,710**	**22,436,834**	**22,934,022**

Financial Indicators	**Total Change**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**
1) Expense to Revenue Ratio		65%	62%	68%	71%	65%	78%	81%
2) Increase/(Decrease) in Accumulated Surplus	5,247,699	842,222	956,953	722,774	690,882	976,556	561,124	497,188

Schedule 4-1
Statement of Operating Expenses: Water Services
UNAUDITED: For Financial Planning Purposes Only
2015-2021

	Notes	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Operating Expenses								
Salaries & Benefits								
WW-Salaries - Supt.		22,400	22,800	23,300	23,800	24,300	24,800	25,300
WW-ADM Salaries/Wages		153,000	156,100	159,200	162,400	165,600	168,900	172,300
WW-Training Salaries/Wages		13,300	13,600	13,900	14,200	14,500	14,800	15,100
WW-Locates Salaries/Wages		81,600	83,200	84,900	86,600	88,300	90,100	91,900
WW-Well Operation Salaries/Wages		122,400	124,800	127,300	129,800	132,400	135,000	137,700
WW-Main/Service/Mtce Salaries/Wages		14,300	14,600	14,900	15,200	15,500	15,800	16,100
WW-Hydrant Mtce Salaries/Wages		10,200	10,400	10,600	10,800	11,000	11,200	11,400
WW-Benefits		109,100	111,300	113,500	115,800	118,100	120,500	122,900
Expenditures								
WW-Salaries (Works Employees)		13,300	13,600	13,900	14,200	14,500	14,800	15,100
WW-Materials & Supplies		126,000	132,300	138,900	145,800	153,100	160,800	168,800
WW-Meters & Hardware		3,000	3,100	3,200	3,300	3,400	3,500	3,600
WW-Testing/Sampling		25,500	26,000	26,500	27,000	27,500	28,100	28,700
WW - Water Tower Inspection & Mtce		32,600	33,300	34,000	34,700	35,400	36,100	36,800
WW-Backflow Preventer Testing		25,000	25,500	26,000	26,500	27,000	27,500	28,100
WW - Meter/Backflow preventer maintenance		9,200	9,400	9,600	9,800	10,000	10,200	10,400
WW-Water Testing (Lead)		500	500	500	500	500	500	500
WW - Leak Detection		3,200	3,300	3,400	3,500	3,600	3,700	3,800
WW - Property Expense		12,200	12,400	12,600	12,900	13,200	13,500	13,800
WW - Well Mainenance		51,000	52,000	53,000	54,100	55,200	56,300	57,400
WW - Advertising		500	500	500	500	500	500	500
WW - Audit Fee		2,000	2,000	2,000	2,000	2,000	2,000	2,000
WW-Insurance		13,400	13,700	14,000	14,300	14,600	14,900	15,200
WW - Insurance Claims Deductible		2,400	2,400	2,400	2,400	2,400	2,400	2,400
WW-Consulting/Engineering		35,700	36,400	37,100	37,800	38,600	39,400	40,200
WW - Drinking Water Quality Management Standards		5,100	5,200	5,300	5,400	5,500	5,600	5,700
WW - Memberships		1,000	1,000	1,000	1,000	1,000	1,000	1,000
WW-Conferences, training & travel		16,000	16,300	16,600	16,900	17,200	17,500	17,900
WW-Safety Clothing Allowance		1,200	1,200	1,200	1,200	1,200	1,200	1,200
WW-Telephone		9,100	9,300	9,500	9,700	9,900	10,100	10,300
WW-Services & Rents(HEC Billings)		54,100	55,200	56,300	57,400	58,500	59,700	60,900
WW - Bad Debts		1,600	1,600	1,600	1,600	1,600	1,600	1,600
WW-Truck Mtce/Mileage		27,000	27,500	28,100	28,700	29,300	29,900	30,500
MF WW-Well #3 (Mtce & hydro)		13,100	13,800	14,500	15,200	16,000	16,800	17,600
MF WW-Well #4 (Mtce & hydro)		7,700	8,100	8,500	8,900	9,300	9,800	10,300
MF WW-Well #5 (Mtce & hydro)		17,700	18,600	19,500	20,500	21,500	22,600	23,700
MF WW-Well #6 (Mtce & hydro)		8,100	8,500	8,900	9,300	9,800	10,300	10,800
AV WW-Well #1(Mtce & hydro)		2,600	2,700	2,800	2,900	3,000	3,200	3,400
AV WW-Well #5 (Mtce & hydro)		3,500	3,700	3,900	4,100	4,300	4,500	4,700
AV WW-Well #7 & 7B(Mtce & hydro)		10,900	11,400	12,000	12,600	13,200	13,900	14,600
WW - AV WW - Well #8A & 8B Mtce/Utilities		20,500	20,900	21,300	21,700	22,100	22,500	23,000
Non TCA - Expenses from Capital Budget	7	17,000	-	-	-	-	18,000	-
TOTAL OPERATING EXPENSES		**1,098,000**	**1,108,200**	**1,136,200**	**1,165,000**	**1,194,600**	**1,243,500**	**1,257,200**

Table 4-3
Statement of Changes in Net Financial Assets/Debt: Water Services
UNAUDITED: For Financial Planning Purposes Only
2015-2021

	Notes	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Annual Surplus/(Deficit)		842,222	956,953	722,774	690,882	976,556	561,124	497,188
Less: Acquisition of Tangible Capital Assets	4	(1,285,000)	(814,000)	(630,000)	(2,164,000)	(5,192,000)	(4,027,000)	(2,949,000)
Add: Amortization of Tangible Capital Assets	4	456,042	431,717	416,949	486,306	610,499	692,754	742,782
(Gain)/Loss on disposal of Tangible Capital Assets		-	-	-	-	-	-	-
Add: Proceeds on Sale of Tangible Capital Assets		-	-	-	-	-	-	-
Add: Write-downs of Tangible Capital Assets		-	-	-	-	-	-	-
		(828,958)	(382,283)	(213,051)	(1,677,694)	(4,581,501)	(3,334,246)	(2,206,218)
Increase/(Decrease) in Net Financial Assets/(Net Debt)		13,264	574,670	509,723	(986,812)	(3,604,945)	(2,773,122)	(1,709,030)
Net Financial Assets/(Net Debt), beginning of year		3,245,151	3,258,415	3,833,085	4,342,808	3,355,996	(248,949)	(3,022,071)
Net Financial Assets/(Net Debt), end of year		**3,258,415**	**3,833,085**	**4,342,808**	**3,355,996**	**(248,949)**	**(3,022,071)**	**(4,731,101)**

Financial Indicators	2015	2016	2017	2018	2019	2020	2021
1) Acquisition of Tangible Capital Assets (Cumulative)	1,285,000	2,099,000	2,729,000	4,893,000	10,085,000	14,112,000	17,061,000
2) Annual Surplus/Deficit before Amortization (Cumulative)	1,298,264	2,686,934	3,826,657	5,003,845	6,590,900	7,844,778	9,084,748
3) Ratio of Annual Surplus before Amortization to Acquisition of TCA's (Cumulative)	1.01	1.28	1.40	1.02	0.65	0.56	0.53

Table 4-4
Statement of Cash Flow – Indirect Method: Water Services
UNAUDITED: For Financial Planning Purposes Only
2015-2021

	Notes	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Operating Transactions								
Annual Surplus/Deficit		842,222	956,953	722,774	690,882	976,556	561,124	497,188
Add: Amortization of TCA's	4	456,042	431,717	416,949	486,306	610,499	692,754	742,782
Less: Earned Deferred Revenue	3	(163,733)	(243,000)	-	-	(400,000)	(77,302)	(110,819)
Add: Deferred Revenue Proceeds		94,021	98,355	101,803	105,345	102,977	105,459	123,213
Change in A/R (Increase)/Decrease		6,602	(3,369)	(3,490)	(12,602)	(12,925)	(13,257)	(13,987)
Change in A/P Increase/(Decrease)		11,745	3,955	4,071	4,187	4,304	4,493	4,609
Less: Interest Proceeds		(11,955)	(16,395)	(20,901)	(25,474)	(1,616)	(1,640)	(1,665)
Cash Provided by Operating Transactions		1,234,944	1,228,216	1,221,206	1,248,644	1,279,795	1,271,631	1,241,321
Capital Transactions								
Proceeds on sale of Tangible Capital Assets		-	-	-	-	-	-	-
Less: Cash Used to acquire Tangible Capital Assets	4	(1,285,000)	(814,000)	(630,000)	(2,164,000)	(5,192,000)	(4,027,000)	(2,949,000)
Cash Applied to Capital Transactions		(1,285,000)	(814,000)	(630,000)	(2,164,000)	(5,192,000)	(4,027,000)	(2,949,000)
Investing Transactions								
Proceeds from Investments		11,955	16,395	20,901	25,474	1,616	1,640	1,665
Less: Cash Used to Acquire Investments		-	-	-	-	-	-	-
Cash Provided by (applied to) Investing Transactions		11,955	16,395	20,901	25,474	1,616	1,640	1,665
Financing Transactions								
Proceeds from Debt Issue	2	-	-	-	-	792,000	2,945,000	1,799,000
Less: Debt Repayment (Principal only)	2	(14,976)	(15,392)	(16,120)	(16,848)	(17,888)	(47,626)	(201,918)
Cash Applied to Financing Transactions		(14,976)	(15,392)	(16,120)	(16,848)	774,112	2,897,374	1,597,082
Increase in Cash and Cash Equivalents		(53,077)	415,219	595,987	(906,730)	(3,136,477)	143,645	(108,932)
Cash and Cash Equivalents, beginning of year	1	3,473,309	3,420,232	3,835,451	4,431,438	3,524,708	388,231	531,876
Cash and Cash Equivalents, end of year	1	**3,420,232**	**3,835,451**	**4,431,438**	**3,524,708**	**388,231**	**531,876**	**422,944**

Water
Notes to Financial Plan

The financial plan format, as outlined in Chapter 4, closely approximates the full accrual format used by municipalities (2009 onward) on their audited financial statements. The financial plan, however, is not an audited document and contains various estimates. In this regard, Section 3 (2) of O.Reg. 453/07 states the following:

> "Each of the following sub-subparagraphs applies only if the information referred to in the sub-subparagraph is known to the owner at the time the financial plans are prepared:
>
> 1. Sub-subparagraphs 4 i A, B and C of subsection (1)
> 2. Sub-subparagraphs 4 iii A, C, E and F of subsection (1)."

The information referred to in sub-subparagraphs 4 i A, B and C of subsection (1) includes:

A. Total financial assets (i.e. cash and receivables);
B. Total liabilities (i.e. payables, debt and deferred revenue); and
C. Net debt (i.e. the difference between A and B above).

The information referred to in sub-subparagraphs 4 iii A, C, E and F of subsection (1) includes:

A. Operating transactions that are cash received from revenues, cash paid for operating expenses and finance charges;
B. Investing transactions that are acquisitions and disposal of investments;
C. Change in cash and cash equivalents during the year; and
D. Cash and cash equivalents at the beginning and end of the year.

In order to show a balanced financial plan in a full accrual format for the Township of Wellington North, some of the items listed above have been estimated given that the Township does not maintain all financial asset and liability data separately for water. Usually, this type of data is combined with the financial assets and liabilities of other departments and services given that there is not a current obligation to disclose this data separately (as there is with revenue and expenses). The assumptions used have been documented below:

1. Cash, Receivables and Payables

It is assumed that the opening cash balances required to complete the financial plan are equal to:

Ending Reserve/Reserve Fund Balance
Plus: Ending Accounts Payable Balance
Less: Ending Accounts Receivable Balance
Equals: Approximate Ending Cash Balance

Receivable and payable balances were estimated for each year of the forecast based on the following factors:

a) Receivables: Based on historical levels of Township-wide water and wastewater receivables and accrued receivables as a percentage of annual revenues, applied to projected water revenues (source: prior years' audited financial statements);

b) Payables: Based on historical levels of Township-wide payables as a percentage of annual expenses incurred, applied to projected water expenses (source: prior years' audited financial statements).

2. Debt

Outstanding water related debt at the end of 2014 was $205,192. It is anticipated that debt proceeds will be required over the forecast period. *Principal* repayments over the forecast period are estimated as follows:

Year	Principal Payments
2015	14,976
2016	15,392
2017	16,120
2018	16,848
2019	17,888
2020	47,626
2021	201,918
Total	$ 330,768

For financial reporting purposes, debt principal payments represent a decrease in debt liability and the interest payments represent a current year operating expense.

3. Deferred Revenue

   Deferred revenue is made up of water development charge reserve fund balances which are considered to be a liability for financial reporting purposes until the funds are used to emplace the works for which they have been collected.

4. Tangible Capital Assets

   - Opening net book value of tangible capital assets includes water-related assets in the following categories:
     i. Infrastructure;
     ii. Vehicles;
     iii. Equipment;
     iv. Land; and
     v. Facilities.
   - 2015 opening balances are reported in accordance with the 2014 Financial Information Return Schedule 51A closing tangible capital asset balances for water.
   - Amortization is calculated based on the straight-line approach, and utilizes detailed tangible capital asset records supplied by Township staff.
   - Given the planned asset replacement forecast in the 2015 Rate Study, useful life on acquisitions is assumed to be equal to typical values assigned by the Township for each asset category.
   - Write-offs are assumed to equal $0 for each year in the forecast period.
   - Tangible capital assets are shown on a net basis. It is assumed that disposals occur when the asset is being replaced, unless the asset is documented as a new asset. The value of each asset disposal is calculated by estimating the original purchase/construction date and deflating current replacement cost values to those estimated dates in order to calculate original historical cost.
   - Gains/losses on disposals are assumed to be $0 (it is assumed that historical cost is equal to accumulated amortization for all disposals).
   - Residual value is assumed to be $0 for all assets contained within the forecast period.

- Contributed Assets, as described in subsection 3.2.1, are shown as Developer Contributions, a revenue, on the Statement of Operations in the year of contribution, if applicable.
- The Township is unaware of any specific lead service piping in the Township water systems.

The balance of tangible capital assets is summarized as follows:

Asset Historical Cost	2015	2016	2017	2018	2019	2020	2021
Opening Tangible Capital Asset Balance	21,953,691	23,057,010	23,820,499	24,422,772	25,078,252	29,974,728	33,699,262
Acquisitions	1,285,000	814,000	630,000	2,164,000	5,192,000	4,027,000	2,949,000
Disposals	181,681	50,511	27,727	1,508,520	295,524	302,466	349,786
Closing Tangible Capital Asset Balance	**23,057,010**	**23,820,499**	**24,422,772**	**25,078,252**	**29,974,728**	**33,699,262**	**36,298,476**
Opening Accumulated Amortization	7,512,519	7,786,880	8,168,086	8,557,308	7,535,094	7,850,069	8,240,357
Amortization Expense	456,042	431,717	416,949	486,306	610,499	692,754	742,782
Amortization on Disposal	181,681	50,511	27,727	1,508,520	295,524	302,466	349,786
Ending Accumulated Amortization	**7,786,880**	**8,168,086**	**8,557,308**	**7,535,094**	**7,850,069**	**8,240,357**	**8,633,353**
Net Book Value	**15,270,130**	**15,652,413**	**15,865,464**	**17,543,158**	**22,124,659**	**25,458,905**	**27,665,123**

5. Accumulated Surplus

Opening accumulated surplus for the forecast period is reconciled as follows:

Water	2015 Opening Accumulated Surplus
Reserve Balances	
Reserves: Development Charges	329,415
Reserves: Capital/Other	3,450,343
Total Reserves Balance	**3,779,758**
Less: Debt Obligations and Deferred Revenue	(534,607)
Add: Tangible Capital Assets	14,441,172
Total Opening Balance	**17,686,323**

Note that the Reserve for Capital/Other was adjusted to reflect an additional $358,232 in the opening balance to account for excess capital funding at year end 2014. Correspondingly, this excess capital funding was transferred to capital in 2015 to fund approved capital expenditures.

The accumulated surplus reconciliation for all years within the forecast period is contained in Table 4-2.

6. Other Revenue

Other revenue includes revenues from meter and backflow fees, meter & hardware fees, service connection fees and inter-functional transfers.

7. Operating Expenses

Capital expenditures for items not meeting the definition of tangible capital assets have been reclassified as operating expenses and have been expensed in the year in which they occur.

5. Process for Financial Plan Approval and Submission to the Province

As mentioned in Section 1.2, the requirement to prepare the financial plan is provided in Section 32 (5) 2 ii of the S.D.W.A. Proof of the preparation of a financial plan is one of the submission requirements for municipal drinking water licensing and, upon completion, must be submitted to the Ministry of the Environment. As part of O.Reg. 453/07, the process established for plan approval, public circulation and filing is set out as follows:

1. The financial plan must be approved by resolution of the municipality who owns the drinking water system or the governing body of the owner. (O.Reg. 453/07, Section 3 (1) 1)

2. The owner of the drinking water system must provide notice advertising the availability of the financial plan. The plans will be made available to the public upon request and without charge. The plans must also be made available to the public on the municipality's website. (O.Reg. 453/07, Section 3 (1) 5)

3. The owner of the drinking water system must provide a copy of the financial plan to the Director of Policy Branch, Ministry of Municipal Affairs and Housing. (O.Reg. 453/07, Section 3 (1) 6)

4. The owner of the drinking water system must provide proof satisfactory to the Ministry of the Environment that the financial plans for the system satisfy the requirements under the Safe Drinking Water Act. (S.D.W.A. Section 32 (5) 2 ii)

6. Recommendations

This report presents the water financial plan for the Township of Wellington North in accordance with the mandatory reporting formats for water systems as detailed in O.Reg. 453/07. It is important to note that, while mandatory, the financial plan is provided for Council's interest and approval; however, for decision making purposes, it may be more informative to rely on the information contained within the 2015 Rate Study. Nevertheless, Council is required to pass certain resolutions with regard to this plan and regulations and it is recommended that:

1. The Township of Wellington North Water Financial Plan prepared by Watson & Associates Economists Ltd. dated January 15, 2016 be approved.

2. Notice of availability of the Financial Plan be advertised.

3. The Financial Plan, the Council Resolution approving the Financial Plan, and the Water and Wastewater Rate Study underpinning the Financial Plan be submitted to the Ministry of Municipal Affairs and Housing. (O.Reg. 453/07, Section 3 (1) 6).

4. The Financial Plan, the Council Resolution approving the Financial Plan, and the Water and Wastewater Rate Study underpinning the Financial Plan be submitted to the Ministry of the Environment, satisfying the requirements under the Safe Drinking Water Act. (S.D.W.A. Section 32 (5) 2 ii)).

Appendix A – 2015 Water and Wastewater Rate Study – Summary Tables

Table A-1
Township of Wellington-North
Water Service
Capital Budget Forecast
Inflated $

Description	Total	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Capital Expenditures								
King St W (Main- Queen St W) eng & const	134,000	17,000	117,000	-	-	-	-	-
Eliza St. (Frederick St E-Bellefield Cr) eng. & const	212,000	27,000	185,000	-	-	-	-	-
2007 Pick Up Truck Replacement	35,000	35,000	-	-	-	-	-	-
Water System Scada upgrades	182,000	182,000	-	-	-	-	-	-
Francis St (Charles St W- George St) eng & construction	241,000	-	30,000	211,000	-	-	-	-
James St (Queen St W - North Water St) eng & const	300,000	-	38,000	262,000	-	-	-	-
Elgin St (Wellington St- King St W) eng & const	136,000	-	17,000	119,000	-	-	-	-
2008 Pick Up Truck Replacement	36,000	-	36,000	-	-	-	-	-
Cork St. (Waterloo- Princess St)	121,000	-	121,000	-	-	-	-	-
Charles St E (George St-Isabella St) eng & const	151,000	-	-	19,000	132,000	-	-	-
Fergus St (King St E- Wellington St E)eng & const	151,000	-	-	19,000	132,000	-	-	-
Williams St (Queen St- N. Water St) eng & const	336,000	-	-	-	42,000	294,000	-	-
Walton St (Clark St- Tucker St) eng & const	134,000	-	-	-	17,000	117,000	-	-
New Trunk Line to MF Water Tower	424,000	-	-	-	424,000	-	-	-
Water Meters	1,380,000	-	-	-	1,380,000	-	-	-
2010 Pick Up Truck Replacement	37,000	-	-	-	37,000	-	-	-
Isabella St (Frederick St- John Eliza) eng	47,000	-	-	-	-	47,000	-	-
John St. (Queen-Waterloo St) eng	21,000	-	-	-	-	21,000	-	-
Growth Related:								
MF Water Tower/Booster station - Standpipe/Southend	2,165,000	-	-	-	-	2,165,000	-	-
AV Frederick St.(Joint Project with County)	537,000	537,000	-	-	-	-	-	-
Miller/John/North Water St.	487,000	487,000	-	-	-	-	-	-
Wells St. (Domville St. to Eliza St.)	746,000	-	-	-	-	-	746,000	-
Sligo Road (Church St. to London Rd.)	293,000	-	-	-	-	-	293,000	-
London Road (Sligo Rd. to Wellington St.)	348,000	-	-	-	-	-	348,000	-
Durham St. (London Road Westerly)	40,000	-	-	-	-	-	40,000	-
Murphy Lands (Bristol St./Bentley St.)	568,000	-	270,000	-	-	-	-	298,000
Studies:								
Water and Wastewater Rate Study	35,000	17,000	-	-	-	-	18,000	-
Lifecycle:								
Water Facilities	2,372,000	-	-	-	-	775,000	791,000	806,000
Arthur Water Distribution	2,256,000	-	-	-	-	737,000	752,000	767,000
Mt Forest Water Distribution	3,171,000	-	-	-	-	1,036,000	1,057,000	1,078,000
Total Capital Expenditures	17,096,000	1,302,000	814,000	630,000	2,164,000	5,192,000	4,045,000	2,949,000

Table A-1 Continued
Township of Wellington-North
Water Service
Schedule of Non-Growth Related Debenture Repayments
Inflated $

Description	Total	Forecast						
		2015	2016	2017	2018	2019	2020	2021
Capital Financing								
Unused Capital	358,232	358,232						
Development Charges Reserve Fund	856,733	163,733	243,000	-	-	400,000	50,000	-
Non-Growth Related Debenture Requirements	3,991,450	-	-	-	-	477,550	1,983,100	1,530,800
Growth Related Debenture Requirements	1,544,550	-	-	-	-	314,450	961,900	268,200
Lifecycle Reserve Fund	2,200,000	-	-	-	-	1,900,000	150,000	150,000
Water Reserve	8,145,035	780,035	571,000	630,000	2,164,000	2,100,000	900,000	1,000,000
Total Capital Financing	17,096,000	1,302,000	814,000	630,000	2,164,000	5,192,000	4,045,000	2,949,000

Table A-2
Township of Wellington-North
Water Service
Schedule of Non-Growth Related Debenture Repayments
Inflated $

Debenture Year	Principal (Inflated)	Forecast						
		2015	2016	2017	2018	2019	2020	2021
2015	-		-	-	-	-	-	-
2016	-			-	-	-	-	-
2017	-				-	-	-	-
2018	-					-	-	-
2019	477,550						41,463	41,463
2020	1,983,100							172,183
2021	1,530,800							
Total Annual Debt Charges	**3,991,450**	-	-	-	-	-	41,463	213,646

Table A-3
Township of Wellington-North
Water Service
Schedule of Growth Related Debenture Repayments
Inflated $

Debenture Year	Principal (Inflated)	Forecast						
		2015	2016	2017	2018	2019	2020	2021
2015	-		-	-	-	-	-	-
2016	-			-	-	-	-	-
2017	-				-	-	-	-
2018	-					-	-	-
2019	314,450						27,302	27,302
2020	961,900							83,517
2021	268,200							
Total Annual Debt Charges	**1,544,550**	-	-	-	-	-	27,302	110,819

Table A-4
Township of Wellington-North
Water Service
Water Reserves/ Reserve Funds Continuity
Inflated $

Description	2015	2016	2017	2018	2019	2020	2021
Opening Balance	2,579,093	2,639,658	2,898,541	3,087,244	1,774,110	557,661	680,272
Transfer from Operating	840,600	829,883	818,702	850,866	883,551	1,022,612	886,387
Transfer to Capital	780,035	571,000	630,000	2,164,000	2,100,000	900,000	1,000,000
Transfer to Operating	-	-	-	-	-	-	-
Closing Balance	2,639,658	2,898,541	3,087,244	1,774,110	557,661	680,272	566,659

Table A-5
Township of Wellington-North
Water Service
Water Development Charges Reserve Fund Continuity
Inflated $

Description	2015	2016	2017	2018	2019	2020	2021
Opening Balance	329,415	259,703	115,059	216,862	322,206	25,184	53,341
Development Charge Proceeds	90,183	96,655	98,598	100,583	102,605	104,671	122,242
Transfer to Capital	163,733	243,000	-	-	400,000	50,000	
Transfer to Operating	-	-	-	-	-	27,302	110,819
Closing Balance	255,865	113,358	213,657	317,444	24,812	52,553	64,763
Interest	3,838	1,700	3,205	4,762	372	788	971
Required from Development Charges	163,733	243,000	-	-	714,450	1,011,900	268,200

Table A-6
Township of Wellington-North
Water Service
Water Lifecycle Reserve Fund Continuity
Inflated $

Description	2015	2016	2017	2018	2019	2020	2021
Opening Balance	513,018	808,974	1,109,368	1,414,269	1,723,743	109,359	110,999
Transfer from Operating	284,000	284,000	284,000	284,000	284,000	150,000	150,000
Transfer to Capital	-	-	-	-	1,900,000	150,000	150,000
Transfer to Operating	-	-	-	-	-	-	-
Closing Balance	797,018	1,092,974	1,393,368	1,698,269	107,743	109,359	110,999
Interest	11,955	16,395	20,901	25,474	1,616	1,640	1,665

Table A-7
Township of Wellington-North
Water Services
Operating Budget Forecast
Inflated $

Description	Forecast						
	2015	2016	2017	2018	2019	2020	2021
Expenditures							
Salaries & Benefits							
WW-Salaries - Supt.	22,400	22,800	23,300	23,800	24,300	24,800	25,300
WW-ADM Salaries/Wages	153,000	156,100	159,200	162,400	165,600	168,900	172,300
WW-Training Salaries/Wages	13,300	13,600	13,900	14,200	14,500	14,800	15,100
WW-Locates Salaries/Wages	81,600	83,200	84,900	86,600	88,300	90,100	91,900
WW-Well Operation Salaries/Wages	122,400	124,800	127,300	129,800	132,400	135,000	137,700
WW-Main/Service/Mtce Salaries/Wages	14,300	14,600	14,900	15,200	15,500	15,800	16,100
WW-Hydrant Mtce Salaries/Wages	10,200	10,400	10,600	10,800	11,000	11,200	11,400
WW-Benefits	109,100	111,300	113,500	115,800	118,100	120,500	122,900
Expenditures							
WW-Salaries (Works Employees)	13,300	13,600	13,900	14,200	14,500	14,800	15,100
WW-Materials & Supplies	126,000	132,300	138,900	145,800	153,100	160,800	168,800
WW-Meters & Hardware	3,000	3,100	3,200	3,300	3,400	3,500	3,600
WW-Testing/Sampling	25,500	26,000	26,500	27,000	27,500	28,100	28,700
WW - Water Tower Inspection & Mtce	32,600	33,300	34,000	34,700	35,400	36,100	36,800
WW-Backflow Preventer Testing	25,000	25,500	26,000	26,500	27,000	27,500	28,100
WW - Meter/Backflow preventer maintenance	9,200	9,400	9,600	9,800	10,000	10,200	10,400
WW-Water Testing (Lead)	500	500	500	500	500	500	500
WW - Leak Detection	3,200	3,300	3,400	3,500	3,600	3,700	3,800
WW - Property Expense	12,200	12,400	12,600	12,900	13,200	13,500	13,800
WW - Well Mainenance	51,000	52,000	53,000	54,100	55,200	56,300	57,400
WW - Advertising	500	500	500	500	500	500	500
WW - Audit Fee	2,000	2,000	2,000	2,000	2,000	2,000	2,000
WW-Insurance	13,400	13,700	14,000	14,300	14,600	14,900	15,200
WW - Insurance Claims Deductible	2,400	2,400	2,400	2,400	2,400	2,400	2,400
WW-Consulting/Engineering	35,700	36,400	37,100	37,800	38,600	39,400	40,200
WW - Drinking Water Quality Management Standards	5,100	5,200	5,300	5,400	5,500	5,600	5,700
WW - Memberships	1,000	1,000	1,000	1,000	1,000	1,000	1,000
WW-Conferences, training & travel	16,000	16,300	16,600	16,900	17,200	17,500	17,900
WW-Safety Clothing Allowance	1,200	1,200	1,200	1,200	1,200	1,200	1,200
WW-Telephone	9,100	9,300	9,500	9,700	9,900	10,100	10,300
WW-Services & Rents(HEC Billings)	54,100	55,200	56,300	57,400	58,500	59,700	60,900
WW - Bad Debts	1,600	1,600	1,600	1,600	1,600	1,600	1,600
WW-Truck Mtce/Mileage	27,000	27,500	28,100	28,700	29,300	29,900	30,500
MF WW-Well #3 (Mtce & hydro)	13,100	13,800	14,500	15,200	16,000	16,800	17,600
MF WW-Well #4 (Mtce & hydro)	7,700	8,100	8,500	8,900	9,300	9,800	10,300
MF WW-Well #5 (Mtce & hydro)	17,700	18,600	19,500	20,500	21,500	22,600	23,700
MF WW-Well #6 (Mtce & hydro)	8,100	8,500	8,900	9,300	9,800	10,300	10,800
AV WW-Well #1(Mtce & hydro)	2,600	2,700	2,800	2,900	3,000	3,200	3,400
AV WW-Well #5 (Mtce & hydro)	3,500	3,700	3,900	4,100	4,300	4,500	4,700
AV WW-Well #7 & 7B(Mtce & hydro)	10,900	11,400	12,000	12,600	13,200	13,900	14,600
WW - AV WW - Well #8A & 8B Mtce/Utilities	20,500	20,900	21,300	21,700	22,100	22,500	23,000
Sub Total Operating	1,081,000	1,108,200	1,136,200	1,165,000	1,194,600	1,225,500	1,257,200

Table A-7 Continued
Township of Wellington-North
Water Services
Operating Budget Forecast
Inflated $

Description	Forecast						
	2015	2016	2017	2018	2019	2020	2021
Capital-Related							
New Growth Related Debt (Principal)	-	-	-	-	-	16,296	66,717
New Growth Related Debt (Interest)	-	-	-	-	-	11,006	44,102
Existing Debt (Principal) - Non-Growth Related	14,976	15,392	16,120	16,848	17,888	6,580	6,811
Existing Debt (Interest) - Non-Growth Related	9,228	8,628	7,962	7,232	6,433	4,444	4,214
New Non-Growth Related Debt (Principal)	-	-	-	-	-	24,749	128,390
New Non-Growth Related Debt (Interest)	-	-	-	-	-	16,714	85,257
Transfer to Capital Reserve	840,600	829,883	818,702	850,866	883,551	1,022,612	886,387
Sub Total Capital Related	864,804	853,904	842,784	874,946	907,872	1,102,401	1,221,877
Total Expenditures	1,945,804	1,962,104	1,978,984	2,039,946	2,102,472	2,327,901	2,479,077
Revenues							
WW-Interfunctional Transfer	15,800	15,800	15,800	15,800	15,800	15,800	15,800
WW - Meter & Backflow Fee	50,000	50,000	50,000	50,000	50,000	50,000	50,000
WW-Service Connection Fees	9,500	9,500	9,500	9,500	9,500	9,500	9,500
WW-Meters & Hardware	500	500	500	500	500	500	500
Contributions from Development Charges Reserve Fund	-	-	-	-	-	27,302	110,819
Total Operating Revenue	75,800	75,800	75,800	75,800	75,800	103,102	186,619
Water Billing Recovery - Operating	1,870,004	1,886,304	1,903,184	1,964,146	2,026,672	2,224,799	2,292,458
Lifecycle Reserve Contribution ($)	284,000	284,000	284,000	284,000	284,000	150,000	150,000
Water Billing Recovery - Total	**2,154,004**	**2,170,304**	**2,187,184**	**2,248,146**	**2,310,672**	**2,374,799**	**2,442,458**

7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com
519.848.3620
1.866.848.3620 FAX 519.848.3228
Plan to Simply Explore.
www.simplyexplore.ca

TO:	**MAYOR AND MEMBERS OF COUNCIL** **MEETING OF JANUARY 25, 2016**

FROM:	**MATTHEW ASTON, DIRECTOR OF PUBLIC WORKS**

SUBJECT:	**REPORT PW 2016-008 BEING A REPORT ON AUDIBLE PEDESTRIAN SIGNALS IN WELLINGTON NORTH**

RECOMMENDATION

THAT Report PW 2016-008 being a report on audible pedestrian signals in Wellington North be received;

AND FURTHER THAT the Council of the Township of Wellington North request Wellington County share costs for the installation of audible pedestrian signals at intersections George St and Charles St in Arthur and Main St N and Sligo Rd in Mount Forest.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

NA

BACKGROUND

Township of Wellington North installed audible pedestrian signals at the intersections of Main and Wellington in Mount Forest and Smith and Frederick (County Rd 14) in Arthur in 2015. The cost of each installation was $14,000 plus applicable taxes.

The Township completed this work in 2015 in response to resident requests for accessible crossings for the visually impaired within the community. This project also supports Township efforts to make our community accessible as directed in the Assessibility for Ontarians with Disabilities Act, 2005.

The Township still owns traffic signals at three intersections which would benefit from being upgraded to included audible pedestrian signals. These intersections are located

at George St and Charles St (County Rd 12) in Arthur, Main St and Queen St in Mount Forest and Main St and Sligo Rd (County Rd 6) in Mount Forest.

At the January 18th meeting, Admin and Finance Committee discussed asking Wellington County for cost sharing related to the installation of these audible pedestrian signals as they improve community accessibility.

FINANCIAL CONSIDERATIONS

The Township currently receives $10,000 in funding annually for accessibility initative. The ask for audible pedestrian signals would be in addition to this annual funding.

STRATEGIC PLAN

Do the report's recommendations advance the Strategy's implementation?

X Yes ☐ No ☐ N/A

Which pillars does this report support?

☐ Community Growth Plan
☐ Human Resource Plan
☐ Brand and Identity
☐ Strategic Partnerships
X Community Service Review
☐ Corporate Communication Plan
☐ Positive Healthy Work Environment

Community assessibility is important to support growth within the Township.

PREPARED BY:	RECOMMENDED BY:
Matthew Aston	*Michael Givens, CAO*
MATTHEW ASTON **DIRECTOR OF PUBLIC WORKS**	**MICHAEL GIVENS** **CHIEF ADMINISTRATIVE OFFICER**

THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH
ADMINISTRATION/FINANCE COMMITTEE MINUTES
MONDAY, JANUARY 18, 2016 AT 4:30 P.M.

The meeting was held in the Municipal Office Council Chambers, Kenilworth

Committee Members: **Sherry Burke, Councillor, Chairperson**
Andy Lennox, Mayor
Lisa Hern, Councillor
Dan Yake, Councillor

Staff: **Michael Givens, CAO**
Karren Wallace, Clerk
Cathy Conrad, Executive Assistant
Mary Jo Marshall, Deputy Treasurer
Matthew Aston, Director of Public Works
Barry Lavers, Director of Recreation Parks and Facilities
Dave Guilbault, Fire Chief

CALL THE MEETING TO ORDER

Chairperson Burke called the meeting to order.

PASSING AND ACCEPTANCE OF AGENDA

RESOLUTION A&F 2016-001
Moved by: Councillor Yake
Seconded by: Mayor Lennox
THAT the Agenda for the January 18, 2016 Administration and Finance Committee meeting be accepted and passed.
CARRIED

DECLARATION OF PECUNIARY INTEREST

No declaration of pecuniary interest.

DELEGATIONS

No delegations

FINANCE

Draft 2016 Budget Open House Presentation

Michael Givens, CAO, reviewed the draft 2016 Budget Open House Presentation with the Committee.

THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH
ADMINISTRATION/FINANCE COMMITTEE MINUTES
MONDAY, JANUARY 18, 2016 AT 4:30 P.M.

RESOLUTION A&F 2016-002
Moved by: Mayor Lennox
Seconded by: Councillor Yake
THAT the Administration and Finance Committee of the Township of Wellington North direct staff to hold a public meeting to present the final operating and capital budget to the public of Wellington North on Thursday, February 18, 2016 at 7:00 p.m.
CARRIED

2016 Capital Budget Summary

RESOLUTION A&F 2016-003
Moved by: Councillor Yake
Seconded by: Mayor Lennox
THAT the Administration and Finance Committee of the Township of Wellington North receive the 2016 Capital Budget Summary presented at the January 18, 2016 Administration and Finance Committee meeting.
CARRIED

RESOLUTION A&F 2016-004
Moved by: Councillor Yake
Seconded by: Mayor Lennox
THAT the Administration and Finance Committee of the Township of Wellington North recommend Council give direction to staff to proceed with preparation of the required tender documents for the below projects:

- *Rick Hopkins Bridge repairs*
- *Structure 2028 replacement*
- *Structure 2058 replacement*
- *Arthur Village Eliza Street reconstruction*

in advance of full budget approval to take advantage of early tender pricing.
CARRIED

Matthew Aston, Director of Public Works; Barry Lavers, Director of Recreation Parks and Facilities; and Dave Guilbault, Fire Chief left the meeting

Report from Michael Givens, CAO

- CAO 2016-004 being a report on Township of Wellington North Grants/Donations/Waiver of Fees 2016

RESOLUTION A&F 2016-005
Moved by: Councillor Yake
Seconded by: Mayor Lennox
THAT the Administration and Finance Committee of the Township of Wellington North receive report CAO 2016-004 being a report regarding Grants/Donations/Waiver of Fees 2016;

THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH
ADMINISTRATION/FINANCE COMMITTEE MINUTES
MONDAY, JANUARY 18, 2016 AT 4:30 P.M.

AND FURTHER THAT the Administration and Finance Committee recommend to Council that they approve the Grants/Donations/Waiver of Fees as per the attached Schedule "A".

GRANTS AND DONATIONS

GROUP/PURPOSE	FUNDS REQUESTED	FUNDS APPROVED
Arthur Agricultural Society	500.00	500.00
Arthur & District Horticultural Society – Flower Beds	1,000.00	600.00
Arthur and Area Horticultural Youth Society	200.00	200.00
Arthur Chamber of Commerce (Producing Wellington North Guide)	2,500.00	0.00
Arthur Chamber of Commerce (metal poppy banners for downtown)	2,500.00	0.00
Arthur Lions Club – Duck Race Plus	1,500.00	0.00
Arthur Opti-Mrs. Club – Santa Claus Parade	500.00	300.00
Crime Stoppers Guelph Wellington	0.00	0.00
Mount Forest Agricultural Society	500.00	500.00
Mount Forest & District Arts Council	250.00	250.00
Mount Forest District Chamber of Commerce - Mount Forest Fireworks Festival	5,250.00	2,500.00
Mount Forest District Chamber of Commerce - Wellington North Business, Community, Visitor Guide	2,500.00	0.00
Mount Forest District Chamber of Commerce - Excellence Awards	265.00	0.00
Mount Forest - Community Pantry	3,600.00	800.00
Mount Forest Homecoming Committee	6,000.00	500.00
Mount Forest Horticultural Society – flower beds	600.00	600.00
Mount Forest Lions Club	300.00	300.00
Scholarships – Wellington Heights Secondary School - includes scholarship for student entering Medical Field and Returning home as Doctor	900.00	900.00
Wellington County Farm and Home Safety	500.00	250.00
Wellington Heights Secondary School – Warm Winter Wishes	0.00	0.00
Wellington North Safe Community	0.00	0.00
Miscellaneous	0.00	600.00
TOTAL GRANTS	29,365	8,800

WAIVER OF FEES

GROUP/PURPOSE	FUNDS REQUESTED	FUNDS APPROVED
Arthur Terry Fox Organization	105.09	105.09
Little Black Dress Affair	1,000.00	500.00
Wellington – Dufferin – Guelph Public Health	664.44	0.00
Miscellaneous	0.00	0.00
TOTAL GRANTS	1,769.53	605.09

CARRIED

BMA Management Consulting Inc.

- Municipal Study 2015

Michael Givens, CAO, gave a verbal update on the study which was commissioned by the County of Wellington. One hundred and five municipalities participated in the study which provides comparisons of fees and taxes as a percentage of income.

ADMINISTRATION

Report from Township of Wellington North Joint Health and Safety Committee

- JHSC 2016-001 being the 2015 Annual Report on the activities of the Wellington North Joint Health & Safety Committee

The Committee members thanked the Joint Health and Safety Committee for their report will formally recognize the committee for the work they do at the January 25, 2016 meeting of Council.

RESOLUTION A&F 2016-006
Moved by: Mayor Lennox
Seconded by: Councillor Hern
THAT the Administration and Finance Committee of the Township of Wellington North receive report JHSC 2016-001 being the 2015 Annual Report on the activities of the Wellington North Joint Health & Safety Committee.
CARRIED

Report from Karren Wallace, Clerk

- CLK 2016-005 being a report on 2015 Clerk's Department year end review

RESOLUTION A&F 2016-007
Moved by: Councillor Hern
Seconded by: Mayor Lennox
THAT the Administration and Finance Committee of the Township of Wellington North receive report CLK 2016-005 being a report on 2015 Clerk's Department year end review.
CARRIED

Report from Karren Wallace, Clerk

- CLK 2016-006 being a report on Canine Control services in the Township of Wellington North

Committee directed staff to bring forward to a future Council meeting information regarding other Wellington County municipalities reception to the Guelph Humane Society proposal, right of entry onto private property by the Humane Society, and service providers and costs for Township of Southgate and Municipality of West Grey.

THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH
ADMINISTRATION/FINANCE COMMITTEE MINUTES
MONDAY, JANUARY 18, 2016 AT 4:30 P.M.

RESOLUTION A&F 2016-008
Moved by: Councillor Hern
Seconded by: Councillor Yake
THAT the Administration and Finance Committee of the Township of Wellington North receive report CLK 2016-006 being a report on Canine Control services in the Township of Wellington North.
CARRIED

Report from Karren Wallace, Clerk

- CLK 2016-007 being a report on 2015 Annual Accessibility Report

RESOLUTION A&F 2016-009
Moved by: Mayor Lennox
Seconded by: Councillor Hern
THAT the Administration and Finance Committee of the Township of Wellington North receive report CLK 2016-007 being a report on 2015 Annual Accessibility Report.
CARRIED

ANNOUNCEMENTS

Green Legacy Tree Distribution Day will be held on May 7, 2016 at the Kenilworth Works Yard between 9:00 a.m. and 11:00 a.m.

NEXT MEETING DATE

The next Administration and Finance Committee meeting to be Wednesday, March 23, 2016 at 4:30 p.m.

ADJOURNMENT

RESOLUTION A&F 2016-010
Moved by:
Seconded by:
THAT the Administration and Finance Committee meeting of January 18, 2016 be adjourned at 6:39 p.m.
CARRIED

From: Cynthia Baltoumas
Sent: January-13-16 3:54 PM
To: Karren Wallace
Subject: Wind Power generation

To: Wellington North Council;
In conjunction with the Township of Wainfleet, a resolution that leverages the Auditor General's report to call on the Provincial Government to not issue any new FIT contracts is attached to this email. Because the Ontario Premier, Minister and Deputy Minister of Energy need to hear from municipalities I am requesting that my Township of Wellington North adopt these resolutions and let the Provincial Government know.

Cynthia Baltoumas
7760 Sideroad 2 E.
RR 2,
Kenilworth, N0G 2E0,
Wellington North.

Resolution Requesting that Ontario Cancel RFP for Added Wind Power Generation

Whereas:
The Independent Electrical System Operator, under Ministerial Directive, issued an RFP for additional renewable energy generation including 300 MW of wind generation and is considering issuing further RFPs for 2016; and,

Whereas:
The December 2015 Auditor General's report confirmed that Ontario is generating surplus electricity with capacity increasing by 19% in the last 8 years while demand fell by 7.5% in the same period. Additional capacity is not required at this time; and,

Whereas:
The Auditor General also reported that the existing Feed In Tariff (FIT) contracts mean that Ontario power consumers will pay a premium of $9.2 billion for renewable power with wind power pricing that is double the prices paid in other jurisdictions; and,

Whereas:
The Ontario Chamber of Commerce reports that the escalating price of electricity is undermining their members' capacity to grow, hire new workers, and attract investment, and that Ontario's electricity costs are among the highest in North America, making the province uncompetitive for business growth; and,

Whereas:
Adding wind to Ontario's grid drives CO_2 emissions higher. The Ontario Society of Professional Engineers estimated that wind and solar, with natural gas backup produces electricity at about 200 grams of CO_2 emissions/kWh compared with the current system average level of 40 grams CO_2 emissions/kWh ; and,

Whereas:
Nature Canada reports that wind power facilities have a substantial negative impact on endangered species including migrating bats and birds as well as destroying habitat for species at risk; and,

Whereas:
Wind power is an intermittent source of electricity generation meaning that it cannot be used to replace generating capacity lost when nuclear plants are removed from the system for retrofitting; and,

Therefore, be it resolved that the Council of the Municipality of Wellington North requests:

1. That the Province of Ontario exercise its rights in Section 4.13 (12) of the current LRP I RFP to 'cancel the process at any stage and for any reason' and not issue any new wind generation contracts;
2. That the Province of Ontario hold off any further renewable procurement process until the capacity is actually required and focus on sources that will actually reduce carbon emissions;
3. That the IESO review the outstanding FIT contracts that have not achieved 'Commercial Operation', and vigorously enforce the terms of the FIT contract with a view to eliminating further expensive wind generation capacity being added to the grid.

_____

Send to: Clerk, Municipality of Wellington-North
Kathleen Wynne, Premier of Ontario – premier@ontario.ca
cc: Bob Chiarelli, Minister of Energy – bob.charelli@ontario.ca
cc: Randy Pettapiece, MPP Perth-Wellington-randy.pettapiececo@pc.ola.org
cc: Association of Municipalities of Ontario - cathiebrown@amo.on.ca

THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH

BY-LAW NUMBER 006-16

BEING A BY-LAW TO REPEAL THE APPOINTMENT BY-LAW OF A TREASURER FOR THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH.

AUTHORITY: Municipal Act, 2001, S.O. 2001, c.25, as amended, Sections 5(3) and 286.

WHEREAS the Municipal Act, 2001, S.O. 2001, c.25, as amended, Section 5(3), provides that the jurisdiction of every council is confined to the municipality that it represents and its powers shall be exercised by by-law.

AND WHEREAS the Municipal Act, 2001, S.O. 2001, c.25, as amended, Section 286 provides that a municipality shall appoint a treasurer who is responsible for handling all of the financial affairs of the municipality on behalf of and in the manner directed by the council of the municipality.

AND WHEREAS the Treasurer appointed by By-law 20-14 has resigned his position effective December 31, 2015.

AND WHEREAS the Municipal Act, 2001, S.O. 2001, c.25, as amended Section 286(2) provides a Deputy Treasurer shall have all the powers and duties of the treasurer under the Municipal Act or any other Act.

AND WHEREAS Mary Jo Marshall was appointed Deputy Treasurer by By-law 4-99.

NOW THEREFORE THE COUNCIL OF THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH HEREBY ENACTS AS FOLLOWS:

That By-law Number 20-14 is hereby repealed.

READ A FIRST, SECOND AND THIRD TIME AND FINALLY PASSED THIS 25TH DAY OF JANUARY, 2016.

_____

ANDREW LENNOX, MAYOR

_____

KARREN WALLACE, CLERK

THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH

BY-LAW NUMBER 007-16

A BY-LAW RESTRICTING THE WEIGHT OF VEHICLES PASSING OVER BRIDGES

AUTHORITY: Highway Traffic Act, R.S.O. 1990, Chapter H.8, as amended, Part VIII, Sections 123, and 125.

WHEREAS Part VIII, Section 123, subsection 2 of the Highway Traffic Act, R.S.O. 1990, as amended provides that the municipal corporation or other authority having jurisdiction over a bridge may by by-law make regulations limiting the weight of any vehicle or combination of vehicles or any class thereof passing over such bridge;

AND WHEREAS it is deemed expedient to limit the weight of vehicles passing over bridges in the Township of Wellington North;

NOW THEREFORE the Council of the Township of Wellington North enacts as follows:

1. THAT no vehicle or combination of vehicles or any class thereof, whether empty or loaded, having a gross weight exceeding that set forth in Schedule A attached, shall be operated over these bridges.

2. THAT the penalties provided in Section 125 of the Highway Traffic Act shall apply to offences against this by-law.

3. THAT this by-law shall not become effective until a notice of the limit of the weight permitted legibly printed has been posted in a conspicuous place at each end of the bridge.

4. THAT By-law Nos. 93-07, 15-14 and 60-14 are hereby repealed in their entirety.

READ A FIRST, SECOND AND THIRD TIME AND FINALLY PASSED THIS 25TH DAY OF JANUARY, 2016

ANDREW LENNOX, MAYOR

KARREN WALLACE, CLERK

SCHEDULE "A"
TO BYLAW NUMBER 007-16

STRUCTURE NO.	MTO SITE NO.	LOCATION	GROSS LOAD TONNES
9	35-17	Sideroad 5 – 3 E 0.3 km East of Concession 6 N	18
33	35-17	East-West Luther Townline 1.7 KM South of Highway 89	12
2051		Concession 8 0.7 KM North of Sideroad 3 East	12
2058		Sideroad 13 0.5 KM South of Highway 89	12
2028		Sideroad 13 0.1 KM South of Highway 89	12
2025		Concession 6 South 0.5 KM South of Sideroad 9 West	12
21	35-80	Sideroad 8 East 1.8 KM East of Highway 6	12

AMO watchfile

January 7, 2016

In This Issue

Provincial Matters

The Ministry of Transportation is accepting applications for grants to support electric vehicles fast-charging stations. Applications are due February 12, 2016.

As part of the *Fighting Fraud and Reducing Automobile Insurance Rates Act*, the government has approved new regulations that will provide provincial oversight of towing and vehicle storage services. Regulations will come into force on January 1, 2017.

Schedule 6 of *Bill 8 The Public Sector and MPP Accountability and Transparency Act, 2014* amends FIPPA/MFIPPA to include new requirements for recordkeeping. Many municipal governments have already established reasonable measures to protect their records. The Information and Privacy Commissioner of Ontario and Ministry of Government and Consumer Services have developed background information that can help those municipalities looking to enhance and improve recordkeeping practices.

Federal Matters

Ontario municipalities will receive $617 million from the federal Gas Tax Fund in 2016 to invest in local infrastructure. Municipal allocations for 2016, 2017 and 2018 are available online.

AMO/LAS Events

2016 AMO Conference Guestroom Booking information is now available online. The 2016 Conference will be held at Caesars Windsor, with guestroom booking at the main hotels opening on **January 12th, 2016 at 10 am**. Please carefully review the guestroom booking policy.

LAS

Don't be a laggard. Ontario municipalities are now in majority phase of the adoption curve for LED streetlights. Find out why 136 of your peers have opted for the LAS program.

For the 6th straight 6-month period, Ontario's Time-of-Use (TOU) rates increased on November 1, 2015. As most municipal accounts reside on TOU pricing, this is cause for concern. The LAS Electricity Program provides cost saving opportunities by offering access to spot market pricing or an annual electricity hedge. Get away from TOU rates today and save!

Municipal Matters*
The Municipality of East Ferris resolution requests that all real estate transactions require the issuance to solicitors of municipal property reports that provide information concerning zoning compliance, and, outstanding work orders with respect to the Fire and Building Codes.

Careers
Chief Administrative Officer - Town of Niagara-on-the-Lake. Please apply online or call Julia Robarts in Odgers Berndtson's Toronto office at 416.366.1990.

Treasurer - Municipality of Brooke-Alvinston. Resumes with a covering letter will be accepted until 12:00 p.m., January 25, 2016 by mail, fax and email to: Municipality of Brooke-Alvinston, Attention: Janet Denkers, Clerk-Administrator. Email: jdenkers@brookealvinston.com. Fax: 519.898.5653.

Policy Intern - AMO. Assisting Senior Advisors and the Director of Policy, the successful candidate will support AMO's policy development process. Please apply in confidence to hr@amo.on.ca by Friday, January 22, 2016 at 12 noon.

About AMO
AMO is a non-profit organization representing almost all of Ontario's 444 municipal governments. AMO supports strong and effective municipal government in Ontario and promotes the value of municipal government as a vital and essential component of Ontario's and Canada's political system. Follow @AMOPolicy on Twitter!

AMO Contacts
AMO Watch File Team, Tel: 416.971.9856
Conferences/Events
Policy and Funding Programs
LAS Local Authority Services
MEPCO Municipal Employer Pension Centre of Ontario
OMKN Ontario Municipal Knowledge Network
Media Inquiries, Tel: 416.729.5425
Municipal Wire, Career/Employment and Council Resolution Distributions

January 14, 2016

In This Issue

- Help AMO help you!
- Rural transit pilot project article.
- Canada Summer Jobs program provides funding for municipalities.
- Space limited in pre-conference Heads of Council Training.
- DIY land use planning course available now.
- Cover Your Assets in 2016.
- All about Capacity, Communication & Collaboration.
- Lower personal insurance costs with LAS.
- Cities of Tomorrow Showcase.
- Careers with OPS, West Grey and AMO.

AMO Matters

Our members are valued contributors to the successful delivery of AMO's Mandate of supporting and enhancing strong and effective municipal government. We want to help you help your constituents. Please help us help you by emailing AMO@amo.on.ca with any changes to your contact information.

AMO assisted TVO in connecting with a number of rural municipal representatives who outlined the creative ways rural municipal governments are addressing transit needs. Using school buses, cost sharing and formalized ride share programs are all approaches showing promise for rural transit.

Federal Matters

Municipalities are eligible to apply for the Canada Summer Jobs program. This program provides funding to create summer job opportunities for young people aged 15 to 30, focusing on local priorities while helping both students and their communities. Application deadline is February 26, 2016.

AMO/LAS Events

Join fellow Heads of Council at AMO's Heads of Council Leadership training pre-ROMA (February 21) and pre-AMO (August 14). Get the information you need to be an effective Head of Council. Learn what skill you need to utilize, the tools you need to lead, manage and collaborate and more. Don't miss out, reserve your space today!

Why do municipalities need to plan? Why is land use planning important? What is zoning? AMO’s online self-directed course in land use planning provides the answers to these and many other questions that members of council should know. Log in today, work at your own pace and get the skills you need!

Cover Your Assets - A Primer on Municipal Asset Management is available as a work-at-your-own-pace online course. Topics include defining asset management (AM), understanding the role of Council in AM, communicating with the public and more. Log in today, work at your own pace and get the skills you need!

Save the date, mark your calendars for April 7-8, 2016 and get ready for the 2016 LAS/MFOA Asset Management Symposium. This year’s event will explore Capacity, Communication and Collaboration. Full program details and registration will be available on our website.

LAS
LAS and Cowan Insurance partner to offer municipal staff and elected officials sizable discounts on their personal home and auto insurance. Save up to 25% off regular rates. Get your free, no obligation quote today.

Municipal Wire*
Join Ontario's Big City Mayors February 2-3, 2016 for the Cities of Tomorrow Showcase, Daniels Spectrum, Toronto. The Showcase will be a celebration of what the cities of tomorrow might look like. A team of expert judges have selected the 3 most promising submissions from each policy category.

Careers
Manager, Outcomes and Assessments - Ontario Public Service. Location: Ministry of Education's Early Years Division, Toronto. Please only apply online by Thursday, January 21, 2016, and follow the instructions to submit your application.

Manager, Health Sector Models, Community Sector - Ontario Public Service. Location: Ministry of Health & Long-term Care, Toronto. Please only apply online by Tuesday, January 26, 2016, and follow the instructions to submit your application.

Director of Infrastructure & Public Works - Municipality of West Grey. Please submit a cover letter, resume and references marked "Private and Confidential - Director of Infrastructure and Public Works" by regular mail, personal delivery or email by no later than noon, Friday, January 29, 2016 to Larry C. Adams, CAO/Deputy Clerk, Municipality of West Grey. Email: ladams@westgrey.com.

Policy Intern - AMO. Assisting Senior Advisors and the Director of Policy, the successful candidate will support AMO's policy development process. Please apply in confidence to hr@amo.on.ca by Friday, January 22, 2016 at 12 noon.

About AMO
AMO is a non-profit organization representing almost all of Ontario's 444 municipal governments. AMO supports strong and effective municipal government in Ontario and promotes the value of municipal government as a vital and essential component of Ontario's and Canada's political system. Follow @AMOPolicy on Twitter!

AMO Contacts
AMO Watch File Team, Tel: 416.971.9856
Conferences/Events
Policy and Funding Programs
LAS Local Authority Services
MEPCO Municipal Employer Pension Centre of Ontario
OMKN Ontario Municipal Knowledge Network
Media Inquiries, Tel: 416.729.5425
Municipal Wire, Career/Employment and Council Resolution Distributions

SAUGEEN VALLEY CONSERVATION AUTHORITY

Conservation through Cooperation

MINUTES

MEETING: **Authority**
DATE: **Thursday, December 10, 2015**
TIME: **1:00pm**
LOCATION: **Administration Office, Formosa**

CHAIR: Luke Charbonneau

MEMBERS PRESENT: John Bell, Robert Buckle, Barbara Dobreen, Brian Gamble, Wilf Gamble, Dan Gieruszak, Stewart Halliday, Steve McCabe, Sue Paterson, Mike Smith, Rob Thompson, Andrew White.

ABSENT WITH REGRET: Maureen Couture, Dan Kerr

OTHERS PRESENT: Wayne Brohman, General Manager/Secretary-Treasurer
Erik Downing, Manager, Environmental Planning & Regulations
Candace Hamm, Environmental Planning Coordinator
Laura Molson, Manager, Accounting
Janice Hagan, Recording Secretary
Members of the Media and the Public

Chair Luke Charbonneau called the meeting to order at 1:04 pm. He introduced and welcomed John Bell and Rob Thompson who were appointed by the Municipality of West Grey to replace John Eccles and Kevin Eccles as Members of the Authority.

1. ADOPTION OF AGENDA

MOTION #G15-61
Moved by Steve McCabe
Seconded by Barbara Dobreen
THAT the agenda be adopted as presented.

Carried

2. DECLARATION OF PECUNIARY INTEREST

No persons declared a pecuniary interest relative to any item on the agenda.

3. MINUTES OF BOARD OF DIRECTORS MEETING – October 22, 2015

MOTION #G15-62

Moved by Robert Buckle
Seconded by Dan Gieruszak
THAT the minutes of the Board of Directors meeting, held on October 22, 2015, be adopted as circulated.

Carried

4. MATTERS ARISING FROM THE MINUTES

a. Financial Reserves Report

The General Manager/Secretary-Treasurer presented the Reserve Schedule that reflected the 2016 Budget. He explained that the December 31, 2016 Reserve balances will differ once the 2015 Audit is completed and funds are re-allocated.

b. Human Resources/Staff Promotion

The GM/S-T reviewed the SVCA Human Resources policies including pay equity, hiring, promotion and remuneration practices and explained that in his opinion the policies and practices have reflected the appropriate legal requirements. He believes that employees are paid fairly and promoted equally. He told the Members that in 2008, a consultant was hired to confirm that the pay equity laws were correctly being observed and there were only minor changes made as a result of their recommendations. Mr. Brohman explained that each employee is moved up the salary grid based on performance. He also explained that he was able to compare SVCA's salary grid structure with other Conservation Authority grid structures. The Chair told the Authority members that there should be a plan in place to review the salary grid structure within the next two years.

5. CORRESPONDENCE

- Letter from the Honourable Kathleen Wynne, Premier of Ontario, responding to the letter from SVCA about the Phragmites issue was **noted and filed**.
- Copy of Letter from Mr. Larry Miller, M.P., Bruce/Grey/Owen Sound Riding written to The Honourable Jane Philpott, Minister of Health, responding to the letter from SVCA about the Phragmites issue was **noted and filed**.
- Letter from the Honourable Jeff Leal, Ontario Minister of Agriculture, Food and Rural Affairs, responding to the letter from SVCA about the Phragmites issue was **noted and filed**.
- Letter from the Township of Wellington North responding to the letter from SVCA about the Phragmites issue was **noted and filed**.
- Letter from Richard Aucoin, Executive Director, Health Canada responding to the letter from SVCA about the Phragmites issue was **noted and filed**

- Letter from the Municipality of Morris-Turnberry indicating that Council had reviewed, and has no objections to, the 2016 SVCA Draft Budget was **noted and filed**.
- Letter from the Township of Chatsworth indicating that a resolution had been passed requesting SVCA to limit staff increases to the current CPI. The GM/S-T explained that he contacted the writer of the letter and determined that Chatsworth Council had no issue with the way salary increases were addressed in the proposed 2016 SVCA budget. The letter was **noted and filed.**
- Letter from Mr. Bill Walker, M.P.P, Bruce/Grey/Owen Sound Riding, regarding a Planning & Regulations complaint received by email from Jack Carleton. A response to this letter was written by Chair Luke Charbonneau and read to the Members. A duplicate of this response is appended to the office copy of these minutes. Both letters were **noted and filed**.
- Copies of letters written to Conservation Ontario from the Sault Ste Marie Conservation Authority and from the Maitland Valley Conservation Authority, regarding governance and attendance at the Conservation Ontario Council meetings were discussed by SVCA Members. The GM/S-T explained the voting procedures at the Council meetings included the General Managers if the Chair or Vice Chair were not available to attend the meetings due to travel issues or other extenuating circumstances. Most of the Conservation Ontario Members who spoke at the December Council meeting opposed the change to voting procedures and were confident that each Authority General Manager would properly represent their Authority Members. These letters were **noted and filed.**
- A letter from the Bruce County Federation of Agriculture had been received after publication of the Agenda package, requesting that the Municipalities withhold levy payments to SVCA due to long & unjustified delays in issuing permits. A response was drafted and presented to the Authority members. The Authority Members discussed the draft response and amended it to more directly answer the concerns of timeliness in getting permit approvals. The Chair has indicated that he will be requesting a meeting to directly communicate intended solutions to the issues raised by the BCFA. The Authority members requested that copies of both the letter from BCFA and the subsequent response be forwarded by email to the Member municipalities. The letter from BCFA and a copy of the response are appended to the office copy of these minutes.

MOTION #G15-63
Moved by John Bell
Seconded by Barbara Dobreen
THAT the draft letter of response to the Bruce County Federation of Agriculture as amended be authorized for signing by the Chair and forwarded to the BCFA and all watershed municipalities.

Carried

6. REPORTS

a. Finance Report #6a

MOTION #G15-64
Moved by Mike Smith
Seconded by Wilf Gamble
THAT the Financial Report to October 31, 2015 be accepted as distributed and further;

THAT the Accounts Payable, totaling $388,822.61 be approved as distributed.

Carried

b. Program Reports #6b

MOTION #G15-65
Moved by Steve McCabe
Seconded by Robert Buckle
THAT the Program Report be adopted as presented.

Carried

c. Planning & Regulations Action Items Report

The GM/S-T reviewed the Planning & Regulations Action Items Report. He reviewed the changes and described the items that had been updated or completed. He explained that the draft Policy document (Item #1) has been a high priority and that there should be a submission to the Authority at the next scheduled meeting. He also told the Authority that progress was being made on the File Tracking System (Item #2). Dan Gieruszak suggested that SVCA communicate progress with the Municipalities. Chair Charbonneau would like Mr. Brohman to provide a summary of SVCA accomplishments and talking points, and forward the summary to each Authority Member and Municipality clerks on a regular basis.

7. PLANNING & REGULATION CUSTOMER SERVICE SURVEY – RESULTS TO DATE

The GM/S-T presented the results from the Planning & Regulations Customer Service Survey tabulated so far. There had been 6 respondents out of 22 invitations to complete the survey in the month of November. The Authority members reviewed the results which showed 5 of the 6 being positive and satisfied overall with SVCA services.

8. BUDGET VOTE

MOTION #G15-66
Moved by Stewart Halliday
Seconded by Mike Smith

THAT the amount of $1,617,370 be raised by General Levy in 2016, and further;

THAT General Levy payments shall be due in two equal instalments on March 31 and June 30 and further;

THAT late payments shall be subject to the Authority's normal late payment charge of 1.50% per month thereafter, and further;

THAT, in accordance with Section 27(4) of the Conservation Authorities Act, R.S.O. 1990, the minimum sum that shall be levied against a participating municipality for administration costs shall be $1,100.00.

A recorded vote was taken for this motion with the following results:

Arran-Elderslie	Dan Kerr	Absent
Brockton	Dan Gieruszak	Yea
Chatsworth	Brian Gamble	Yea
Grey-Highlands	Stewart Halliday	Yea
Hanover	Sue Paterson	Yea
Howick	Robert Buckle	Yea
Huron-Kinloss	Wilf Gamble	Yea
Kincardine	Maureen Couture	Absent
Kincardine	Andrew White	Yea
Minto	Steve McCabe	Yea
Morris-Turnberry	Robert Buckle	Yea
Saugeen Shores	Luke Charbonneau	Yea
Saugeen Shores	Mike Smith	Yea
South Bruce	Robert Buckle	Nay
Southgate	Barbara Dobreen	Yea
Wellington North	Steve McCabe	Yea
West Grey	John Bell	Yea
West Grey	Rob Thompson	Yea

The result of the vote was 94.83 percent of the weighted average of those present in favour. Therefore, **Motion #G15-66 was Carried.**

MOTION #G15-67
Moved by Barbara Dobreen
Seconded by Steve McCabe
THAT the Saugeen Valley Conservation Authority adopt the 2016 Budget as outlined in the document presented at the September 24, 2015 meeting, and further;

THAT the Authority share of the costs will be raised through general revenues, reserves, donations, general surplus and special and general levies in accordance with the Conservation Authorities Act, and further;

THAT the General Manager/Secretary-Treasurer is hereby authorized to forward levy notices to the member municipalities.

A coffee break was called at 2:24pm. Laura Molson left the meeting at this time.
Chair Luke Charbonneau called the meeting back to order at 2:34pm. Erik Downing and Candace Hamm joined the meeting.

9. PRESENTATION: ENVIRONMENTAL PLANNING

Erik Downing gave a presentation to the Authority members regarding the involvement of the Planning & Regulations department in the Planning Act process. His presentation is appended to the office copy of these minutes. He explained to the Members that Planning Services Agreements, for the most part, guide SVCA's participation in the Planning process. He explained the reasons why SVCA is involved in the planning process, in Natural Hazards and in Natural Heritage. He also explained to the Members how SVCA's Regulation fits into the planning process. Finally he gave an example of the process. In conclusion Mr. Downing told the Members that if SVCA were to eliminate participation in the Plan Review role, then the Municipalities would be required to either train their own staff or contract this review to outside agencies.

Candace Hamm then gave a presentation further explaining the Review Process. She explained the role of Environmental Planning Staff, and the types of Review they perform. She presented the Provincial Policy Statement with regard to Natural Heritage and Natural Hazards and gave an example of how the Planning Review Process is carried out. Candace's presentation is also appended to the office copy of these minutes.

A coffee break was called at 4:14pm.
Chair Luke Charbonneau called the meeting back to order at 4:19pm.

Chair Luke Charbonneau made the decision to change the order of the Agenda and move forward to the In Camera Closed session.

10. IN CAMERA CLOSED SESSION: POTENTIAL LITIGATION REGARDING A MATTER RELATING TO ZONING IN THE MUNICIPALITY OF BROCKTON.

MOTION #G15-68
Moved by Brian Gamble
Seconded by Steve McCabe
THAT the Authority Members move to Closed session, In Camera, to discuss a legal matter relating to zoning in the Municipality of Brockton; and further

THAT Wayne Brohman, Erik Downing, Candace Hamm and Janice Hagan remain in the meeting.

Carried

MOTION #G15-71
Moved by Stuart Halliday
Seconded by Sue Paterson
THAT the Authority adjourn from Closed Session, In Camera, and rise and report.

Carried

MOTION #G15-72
Moved by Stuart Halliday
Seconded by Wilf Gamble
THAT the Saugeen Valley Conservation Authority appeal the Corporation of the Municipality of Brockton Zoning By-law No. 2015-085 to the Ontario Municipal Board;

AND FURTHER, THAT Authority staff are authorized to retain the services of legal counsel for this appeal.

Defeated

MOTION #G15-73
Moved by Robert Thompson
Seconded by Stuart Halliday
THAT the Saugeen Valley Conservation Authority appeal Amendment No. 12 to the Walkerton Community Official Plan to the Ontario Municipal Board;

AND FURTHER, THAT Authority staff are authorized to retain the services of legal counsel for this appeal.

Defeated

11. NEW BUSINESS

a. 2016 Authority Meeting Schedule

MOTION #G15-74
Moved by Barbara Dobreen
Seconded by Dan Gieruszak
THAT the 2016 Authority meeting schedule be adopted as presented.

Carried

b. 2016 User Fee Schedule – Forestry

MOTION #G15-75
Moved by Sue Paterson
Seconded by Mike Smith
THAT the 2016 Grey Bruce Forestry Fee Schedule, dated December 1, 2015, be adopted as presented.

Carried

Robert Buckle left the meeting at 5:20pm.

c. Administration Resolutions

It was decided to postpone discussion regarding the draft Administration Resolutions document to the next scheduled Authority Meeting.

d. Local Newspaper articles

The GM/S-T submitted articles from local newspapers regarding the SVCA for the purpose of keeping the Authority members up to date on current events.

Steve McCabe left the meeting at 5:25pm.

11. OTHER BUSINESS

Member Stuart Halliday requested that the complete Authority Agenda package including attachments be uploaded to the SVCA website prior to each meeting. The GM/S-T agreed to make that happen.

There being no further business, the meeting adjourned at 5:32pm on motion of Barbara Dobreen.

_____ _____

Luke Charbonneau
Chair

Janice Hagan
Recording Secretary

PERTH-WELLINGTON
RANDY PETTAPIECE, MPP
NEWS RELEASE

FOR IMMEDIATE RELEASE
January 15, 2016

Province shortchanging area municipalities: MPP Pettapiece

(Perth-Wellington) – Another year, another blow to area municipalities. Eight of ten municipalities in Perth-Wellington that receive transfers from the Ontario Municipal Partnership Fund (OMPF) had their funding cut again for 2016.

“The provincial government continues to shortchange area municipalities,” said Perth-Wellington MPP Randy Pettapiece. “It’s unfair and it’s unacceptable.”

The Ontario Municipal Partnership Fund (OMPF) is the province’s main transfer payment to municipalities. Since 2013, province-wide OMPF grants have been slashed by $70 million, or 12 percent:

	2013	2014	2015	2016
OMPF grant	$575 million	$550 million	$515 million	$505 million

Many local municipalities, however, have taken an even bigger hit. In the same period, the government chopped grants to the counties of Perth and Wellington by a whopping 42 percent.

“We understand the province is in a financial mess, but it is not of municipalities’ making. The numbers are pretty clear: we in Perth-Wellington are paying way more than our fair share to clean up after the Liberals.”

Two years ago, Pettapiece wrote to the Minister of Finance on behalf of both Perth and Wellington counties to demand answers, but none were forthcoming. He intends to continue pressing the issue following the upcoming Rural Ontario Municipal Association (ROMA) and Ontario Good Roads Association (OGRA) conference, where area municipalities have requested meetings with provincial ministers.

Pettapiece also believes the Liberals must come clean with the formula they use to calculate OMPF grants. “It is anything but transparent,” he said.

Gary McNamara, president of the Association of Municipalities of Ontario (AMO), was very critical of the government’s actions. At AMO’s conference in August, McNamara slammed the government’s position:

“What’s $50,000 here? What’s another $50,000 there? Well, it’s far more than they seem to appreciate. Almost half of Ontario’s municipalities have to hike property taxes by at least one full per cent to raise $50,000 dollars.”

In October, MPPs from all parties endorsed a resolution Pettapiece introduced in the legislature. Its intent was to ensure that government-held and opposition-held ridings be given equal and transparent consideration on infrastructure funding.

The 2016 OMPF allocations by municipality are available at:
http://www.fin.gov.on.ca/en/budget/ompf/2016/munlist.html

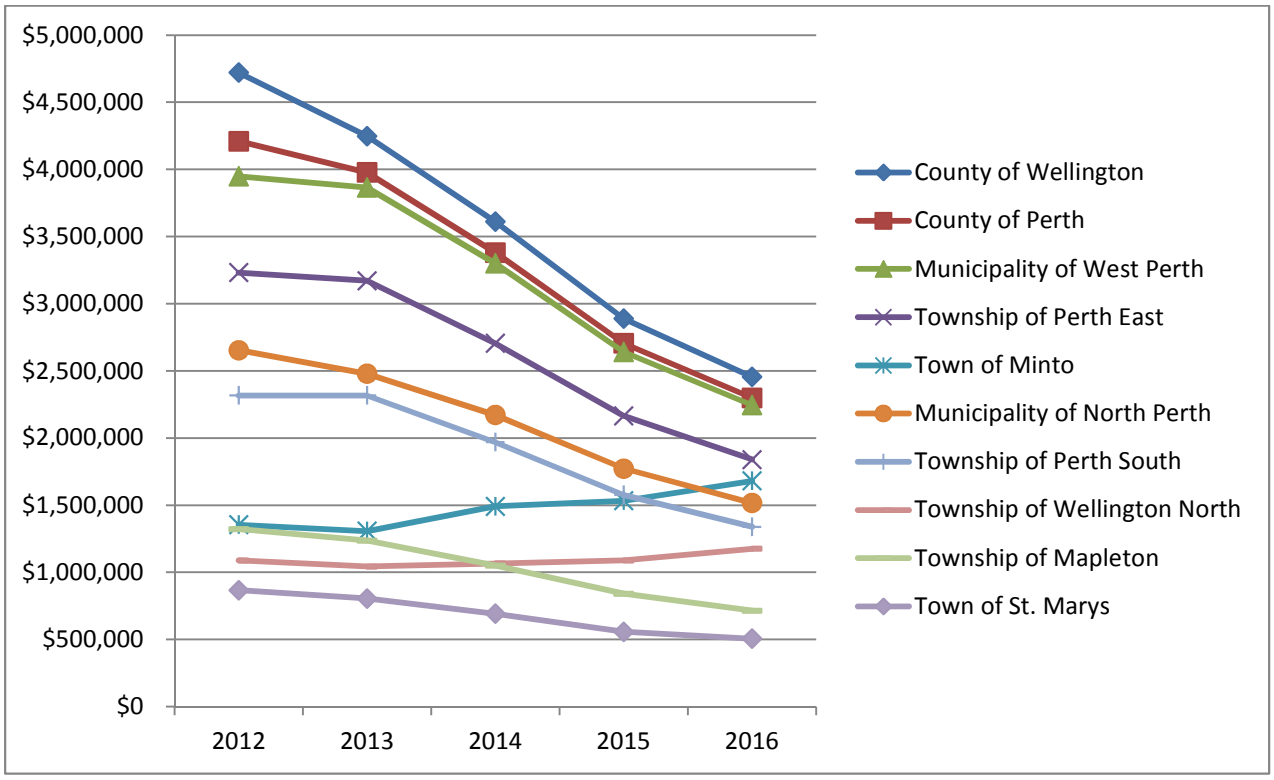
- 30 -

Attached: Ontario Municipal Partnership Fund (OMPF) Allocations to area municipalities, 2012 to 2016

Randy Pettapiece, MPP | 519-272-0660 | www.pettapiece.ca

Ontario Municipal Partnership Fund (OMPF) Allocations, 2012 to 2016

*Based on numbers provided by the Legislative Library and Research Services



Note: The City of Stratford has not received any OMPF funding from 2011 forward.

	2012	2013	2014	2015	2016
County of Wellington	$4,720,200	$4,248,200	$3,611,000	$2,888,800	$2,455,500
County of Perth	$4,209,300	$3,977,800	$3,381,200	$2,705,000	$2,299,300
Municipality of West Perth	$3,948,400	$3,865,500	$3,301,200	$2,641,000	$2,244,900
Township of Perth East	$3,232,100	$3,170,700	$2,704,700	$2,163,800	$1,839,300
Town of Minto	$1,354,300	$1,306,900	$1,491,400	$1,532,500	$1,680,700
Municipality of North Perth	$2,653,800	$2,478,700	$2,171,400	$1,771,900	$1,516,800
Township of Perth South	$2,317,100	$2,317,100	$1,969,600	$1,575,700	$1,339,400
Township of Wellington North	$1,088,600	$1,042,900	$1,066,100	$1,088,700	$1,176,200
Township of Mapleton	$1,321,800	$1,235,900	$1,050,600	$840,500	$714,500
Town of St. Marys	$867,700	$805,300	$691,800	$557,600	$506,700

The Corporation of
THE TOWNSHIP of CARLING
2 West Carling Bay Road, Nobel, ON P0G 1G0
Phone: 705-342-5856 • Fax: 705-342-9527

January 13, 2016

RE: Physician Recruitment

At the regular meeting of Council for the Township of Carling held January 11, 2016, Council considered correspondence from the Township of Madawaska Valley regarding physician recruitment.

Please be advised that the following resolution was passed at the meeting:

16-006 **Moved by Councillor Crookshank**
Seconded by Councillor Gilbert

WHEREAS Ontario's growing and aging population is putting an increasing strain on our publicly-funded health care system;

AND WHEREAS since February 2015, the Ontario government has made an almost 7% unilateral cut to physician services expenditures which cover all the care doctors provide to patients – including cuts to programs which are specifically deigned to act as incentives for physicians to practice in rural areas;

AND WHEREAS the decisions Ontario makes today will impact patients' access to quality care in the years to come and these cuts will threaten access to the quality, patient-focused care Ontarians need and expect;

AND WHEREAS Ontario is experiencing a growing rural population as retirees move to the countryside;

AND WHEREAS many rural municipalities in Ontario have formed physician recruitment and retention committees and strategies to deal with the reality of physician retirements and shortages;

AND WHEREAS rural areas in Ontario are already at a distinct disadvantage in recruiting family physicians due to a number of factors;

NOW THEREFORE BE IT RESOLVED that the Council of the Township of Carling hereby requests that the Minister of Health and Long Term Care reinstate incentives for physicians to practice in rural areas of Ontario, and that the

minister return to the table with Ontario's doctors and work together through mediation-arbitration to reach a fair deal the protects the quality, patient-focused care Ontario's families deserve;

AND BE IT FURTHER REOLVED that copies of this resolution be sent to the Premier of Ontario, the federal and provincial Ministers of Health, the Ontario College of Physicians and Surgeons, and all municipalities in Ontario.

Carried.

If you require further information, please do not hesitate to contact the undersigned at 705-342-5856 ext. 416 or kmcllwain@carlingtownship.ca.

Sincerely,

Kevin McLlwain
CAO/Clerk/Treasurer

Township of Brudenell, Lyndoch and Raglan

RESOLUTION

No. 5

Date: January 6, 2016

Moved by: Sheldon Keller

Seconded by: Wayne Gould

"WHEREAS Ontario's growing and aging population is putting an increasing strain on our publicly-funded health care system;

AND WHEREAS since February 2015, the Ontario government has made an almost 7 per cent unilateral cut to physician services expenditures which cover all the care doctors provide to patients - including cuts to programs which are specifically designed to act as incentives for physicians to practice in rural areas;

AND WHEREAS the decisions Ontario makes today will impact patients' access to quality care in the years to come and these cuts will threaten access to the quality, patient-focused care Ontarians need and expect;

AND WHEREAS Ontario is experiencing a growing rural population as retirees move to the countryside;

AND WHEREAS many rural municipalities in Ontario have formed physician recruitment and retention committees and strategies to deal with the reality of physician retirements and shortages;

AND WHEREAS rural areas in Ontario are already at a distinct disadvantage in recruiting family physicians due to a number of factors;

NOW THEREFORE BE IT RESOLVED THAT, in an effort to retain and attract family physicians to our rural Ontario municipality, the Township of Brudenell, Lyndoch and Raglan hereby requests that; the Minister of Health and Long Term Care reinstate incentives for physicians to practice in rural areas of Ontario; and that the Minister return to the table with Ontario's doctors and work together through mediation-arbitration to reach a fair deal that protects the quality, patient-focused care Ontario's families deserve.

AND THAT copies of this Resolution be sent to the Premier of Ontario, the County of Renfrew and all Renfrew County lower-tier municipalities, MPP John Yakabuski, Federal Minister of Health, Ontario College of Physicians and Surgeons and all municipalities in Ontario.

V
Carried

Defeated

Michelle Maloney
Clerk

Signature of Presiding Officer

Amended by Resolution(s) Number: _____

7490 Sideroad 7 W, PO Box 125,
Kenilworth, ON N0G 2E0
www.wellington-north.com

519.848.3620
1.866.848.3620 FAX 519.848.3228

Plan to Simply Explore.
www.simplyexplore.ca

NOTICE

In accordance with the *Municipal Act, 2001,* as amended, Section 290 and the Notice Provision Policy of the Township of Wellington North.

TAKE NOTICE that the Township of Wellington North intends to pass the 2016 consolidated Budget at the regularly scheduled Council meeting on February 18, 2016 at 7.00 pm in the Council Chambers situated in the municipal office at 7490 Sideroad 7 W, Kenilworth, ON.

Michael Givens, Chief Administrative Officer
Township of Wellington North
7490 Sideroad 7 West
Kenilworth, Ontario N0G 2E0

THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH

BY-LAW NUMBER 008-16

BEING A BY-LAW TO CONFIRM THE PROCEEDINGS OF THE COUNCIL OF THE CORPORATION OF THE TOWNSHIP OF WELLINGTON NORTH AT ITS REGULAR MEETING HELD ON, JANUARY 25, 2016.

WHEREAS Section 5 of the Municipal Act, S.O. 2001 c.25 (hereinafter called "the Act") provides that the powers of a Municipal Corporation shall be exercised by its Council;

AND WHEREAS Section 5(3) of the Act states, a municipal power, including a municipality's capacity, rights, powers and privileges under Section 9, shall be exercised by by-law, unless the municipality is specifically authorized to do otherwise;

NOW THEREFORE the Council of The Corporation of the Township of Wellington North hereby **ENACTS AS FOLLOWS**:

1. The action of the Council of the Corporation of the Township of Wellington North taken at its meeting held on January 25, 2016 in respect of each motion and resolution passed and other action taken by the Council of the Corporation of the Township of Wellington North at its meeting, is hereby adopted and confirmed as if all such proceedings were expressly embodied in this By-law.

2. That the Mayor and the proper officials of the Corporation of the Township of Wellington North are hereby authorized and directed to do all things necessary to give effect to the action of the Council of the Corporation of the Township of Wellington North referred to in the proceeding section hereof.

3. The Mayor and the Clerk are authorized and directed to execute all documents necessary in that behalf and to affix thereto the Seal of the Corporation of the Township of Wellington North.

READ A FIRST, SECOND AND THIRD TIME AND FINALLY PASSED THIS 25TH DAY OF JANUARY, 2016.

ANDREW LENNOX
MAYOR

KARREN WALLACE
CLERK

MEETINGS, NOTICES, ANNOUNCEMENTS		
Tuesday, February 2, 2016	Recreation and Culture Committee	8:30 a.m.
Monday, February 8, 2016	Public Meeting	7:00 p.m.
Monday, February 8, 2016	Regular Council Meeting	Following Public Meeting
Tuesday, February 9, 2016	Public Works Committee	8:30 a.m.
Wednesday, February 17, 2016	Economic Development Committee	4:30 p.m.
Thursday, February 18, 2016	Cultural Roundtable	12:00 p.m.
Thursday, February 18, 2016	2016 Budget Open House	7:00 p.m.
February 21 – 24, 2016	ROMA/OGRA Conference	
Monday, February 29, 2016	Regular Council Meeting	7:00 p.m.

The following accessibility services can be made available to residents upon request with two weeks notice:

Sign Language Services – Canadian Hearing Society – 1-877-347-3427
- Guelph location – 519-821-4242

Documents in alternate forms – CNIB – 1-800-563-2642