

THE MUNICIPALITY OF THE COUNTY OF KINGS

RECOMMENDATIONS FROM REGIONAL SEWER COMMITTEE

February 15, 2018

a.	Regional Sewer Committee and Regional Sewer Technical Subcommittee Terms of Reference	That Municipal Council approve the Terms of Reference for the Regional Sewer Committee and the Regional Sewer Technical Subcommittee.
b.	2018/2019 Regional Sewer Operating and Capital Budgets	That Municipal Council approve the 2018/2019 Regional Sewer Operating and Capital Budgets.



MUNICIPALITY OF THE COUNTY OF KINGS
Regional Sewer Committee Policy (Draft)

Creation Date	To be Determined	Policy Category	Engineering & Public Works
Approval Date	To be Determined	Next Review Date	One Year after Approval
Revision Date	Not Applicable	Replaces	Not Applicable

1. Establishment of the Committee

- 1.1 Per Sections 23(1) (c) and 24 *Municipal Government Act*, Municipal Council authorizes the formation of the Regional Sewer Committee (the “Committee”) and authorizes it to conduct the activities outlined in the Regional Sewer Committee Policy (the “Policy”) on its behalf.
- 1.2 Municipal Council further authorizes the formation of the Regional Sewer Technical Subcommittee (the “Subcommittee”) and authorizes it to conduct the activities outlined in this Policy in support of the Committee’s activities.

2. Purpose

The Committee will assist Municipal Council in fulfilling its oversight responsibilities related to the Kings Regional Sewer System (the “System”). The Committee shall provide its recommendations to Municipal Council for action to be taken by Municipal Council and management as part of a continuous improvement program for the System that is mutually beneficial to System customers.

3. Related Legislation and Policy

The following legislation may be referenced to inform interpretation of and provide context for the work of the Committee:

- a. *Fisheries Act RSC 1985, Government of Canada*
- b. *Environment Act 1994-95, Province of Nova Scotia*
- c. Regional Sewer Treatment Plant, Approval to Operate No. 2008-065597-A03, Province of Nova Scotia
- d. Municipal By-law 64, *Meetings and Procedure*
- e. Municipal By-law 91, *Sewer Discharge*
- f. Municipal By-law 98, *Wastewater Sewer*
- g. Municipal By-law 102, *Committees Governance*
- h. *Sewers By-law* (Chapter 72), Town of Kentville
- i. *Sewer By-law*, By-law #3, Village of New Minas
- j. Municipal Policy FIN 05-006 Procurement
- k. Municipal Policy EPW-04-010 Engineering Services Procurement



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4. Definitions

The following definitions will be used to interpret these Terms of Reference:

- a. "Agreements" means the agreements between the Partners.
- b. "Council" means the Council of the Municipality of the County of Kings.
- c. "EPW" means the Engineering and Public Works, Lands and Parks Services Department of the Municipality of the County of Kings.
- d. "Financing" means the method used to fund capital expenses including, but not limited to, debt financing, and grants from senior levels of government.
- e. "Partners" means the Municipality of the County of Kings (Municipality), Town of Kentville (Town), Village of New Minas (Village), and PepsiCo Foods Canada LLC (PepsiCo).
- f. "Partner Staff" means employees of the Partners.
- g. "Purchasing Authority" means the entity authorized to approve contract awards as set out in the Municipality's Procurement Policy.
- h. "Regional STP" means the sewage treatment facility owned and operated by the Municipality located at 221 Jones Road in New Minas.
- i. "Regional Trunk System" means the series of gravity and force mains, and lift stations depicted in the drawings included in Appendix A of this Terms of Reference that are owned and operated by the Municipality.
- j. "System" means the treatment and collection systems consisting of the Regional STP and the Regional Trunk System.

5. Responsibilities

- 5.1 The Committee will consider and plan for the longer term needs of the System to ensure that capacity will be available to the partners to meet future growth demands.
- 5.2 The Committee will review and provide recommendations to Municipal Council and staff, and the Partners on the following items:
 - a. System Annual Operating Budget;
 - b. Annual Capital budget and proposed capital projects; and
 - c. Annual review of 5-Year Capital Plan.
- 5.3 Subject to the provisions of the Municipality's Procurement Policy, the Committee will review all tenders and change orders for Capital Projects in excess of 10% of the original budget and provide the Purchasing Authority a recommendation on the tender or requested change order. The recommendation may be provided by email if the Committee is unable to meet in person in a timely fashion which could cause undue delays in ongoing work.



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- 5.4 The Committee may provide input and guidance to Municipal Staff and/or the Partners as appropriate on the following matters:
- As required, review reports from staff and others relating to the System's compliance with laws, regulations, and other obligations governing the System;
 - Matters regarding the Agreements; and
 - Development of operational policies.
- 5.5 All recommendations made by the Committee shall be made in writing and submitted to the Partners at the earliest opportunity.

6. Municipality Responsibilities

The Municipality, as owner of the System, is responsible for:

- Performing all operation and maintenance activities;
- Meeting all applicable regulatory requirements;
- Maintaining financial and operating records;
- Arranging financing of capital expenditures as applicable;
- Administering capital upgrades and expansions;
- Executing and administering agreements with and on behalf of all Partners;
- Providing each Partner monthly summary reports of their total flow and all BOD test results within thirty (30) calendar days of the end of the month;
- Providing quarterly reports to the Partners at Committee meetings on Regional STP compliance with regulatory effluent limits and a summary of each Partner's total flow and BOD test results; and
- Promptly advise the Partners in writing by email, unless health or safety are at risk and time does not permit, upon becoming aware of any conditions within the System that:
 - Trigger a reporting requirement pursuant to legislation;
 - Directives or orders issued pursuant to legislation;
 - An event that could have a financial impact that is outside the approved budget authorizations (e.g., forcemain break);
 - Discharges by a Partner that either exceeds the limits specified in their Agreement with the Municipality or applicable By-law; or
 - Other issues that, in the opinion of the Director of EPW, could pose an adverse long term impact to the System for environmental or health and safety compliance, operationally, or financially.

7. Partner Responsibilities

Each Partner, via its Agreement with the Municipality, is responsible for supporting the operation of the System including:



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Regional Sewer Committee Policy (Draft)

- a. Funding the System in accordance with its Agreement;
- b. Appointing one (1) voting representative and one (1) alternate to the Committee;
- c. Notifying the Recording Secretary in writing whom they have appointed as their Voting Member, alternate Voting Member, and their contact information. Notification must be provided a minimum five (5) business days prior to expiration of the term or the next scheduled meeting in the case of a resignation prior to the end of the term;
- d. Considering recommendations from the Committee; and
- e. Meeting all requirements of their respective Agreements.

8. Membership & Term of Appointment

- 8.1 The Committee shall be composed of voting and non-voting representatives from the Partners.
- 8.2 Each Partner shall appoint one representative to act as a Voting Member of the Committee. For the municipal partners, their Voting Member shall be a current member of the respective Council or Commission. The PepsiCo Voting Member shall be a person holding a management level position either at the New Minas facility or one who has operational or environmental oversight responsibilities for the New Minas facility.
- 8.3 The Committee Chair shall be the Municipality's Voting Member. The Vice-Chair shall be elected from the remaining Voting Members at the first Committee of each calendar year.
- 8.4 The non-Voting Members of the Committee shall consist of:
 - a. CAO of the Municipality;
 - b. CAO of the Town;
 - c. Clerk/Treasurer of the Village;
 - d. Director, EPW, Lands and Parks for the Municipality;
 - e. Director of Public Works for the Town;
 - f. Public Works Supervisor for the Village;
 - g. PepsiCo may provide up to two (2) resource people at their discretion;
 - h. Representative of Nova Scotia Environment (optional);
 - i. Recording Secretary provided by the Municipality; and
 - j. Additional Partner Staff may attend as needed for reporting purposes.
- 8.5 Only Voting and non-Voting Members of the Committee may participate in Committee meeting deliberations.
- 8.6 A member of the Committee who is absent for three (3) regularly scheduled consecutive meetings without cause acceptable to the Committee ceases to be a member.
- 8.7 Should any Voting Member of the Committee cease to be a member, the Chair shall promptly notify the affected Partner and request they appoint a new Voting Member.



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9. Meetings & Governance Matters

9.1 Committee Values

The Committee and staff are expected to operate in compliance with the Municipal Code of Conduct, and the policies, laws, and regulations governing the Municipality. The Committee shall consider the economic, environmental, and social/cultural implications for the region in its decision making.

9.2 Accountability and Reporting

9.2.1 The Committee is accountable to Council.

9.2.2 The Committee shall report to Council as often as necessary but at least quarterly. Reporting shall normally be done through the Committee Chair.

9.2.3 The Municipality's Voting Member will provide periodic updates on the activities and decisions of Council pertinent to the work of the Committee.

9.2.4 The Committee shall annually review, discuss and assess its performance. The Committee will review these Terms of Reference on an annual basis and recommend any necessary changes to Council.

9.3 Meeting

Meetings shall be held at a minimum quarterly at a time to be established by the Committee at its first meeting of each calendar year. In the absence of the Chair of the Committee, the Vice-Chair will preside over the meeting. Special meetings may be convened throughout the year at the request of the Chair, the Director of EPW, or at the written request by a majority of the Committee's Voting Members. A copy of the minutes or notes of each meeting shall be provided to each member in a timely fashion.

9.4 Quorum and Decision Making

9.4.1 A quorum consists of three (3) voting members of the Committee.

9.4.2 Each Partner shall have one (1) vote and shall designate their Voting Member as per this Policy.

9.4.3 The Chair presiding at any meeting of the Committee must vote on all matters considered by the Committee.

9.4.4 All motions require the approval of a simple majority of the Voting Members. Tie votes are considered a negative vote.



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9.5 Rules of Procedure

The Committee and any Subcommittees shall conduct business according to Part II of Bourinot's Rules of Order, 4th revised edition except as modified by By-law 102.

9.6 Communications

The Committee members will maintain direct, open, productive communications with staff, Council and other key advisors as appropriate.

9.7 Policy Development

Review and comment on all applicable materials to help Municipal staff and Council to establish technically sound and achievable goals using a combination of management practices such as Nova Scotia Environment guidelines, by-laws, and best management practices. The Committee may invite resource person(s) to provide advice on matters before the Committee, and may, in good faith, rely upon any reports and findings they provide.

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Regional Sewer Committee Policy (Draft)

APPENDIX A

MAPS OF KINGS REGIONAL SEWER SYSTEM

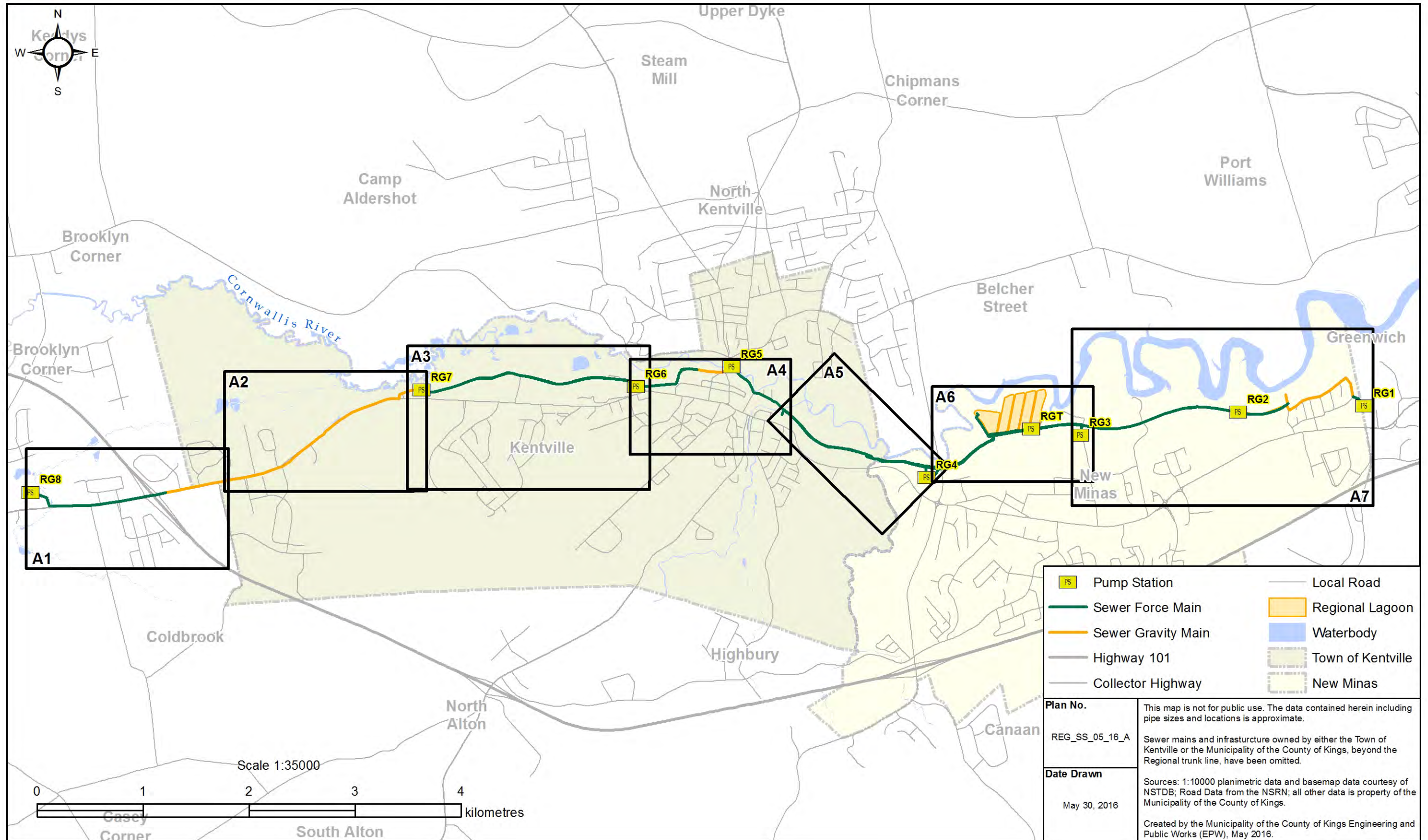
Includes:

- Sheet A - Overview Map
- Sheet A1 - RG8 to Town of Kentville Boundary
- Sheet A2 - Anderson Blvd to RG7
- Sheet A3 - RG7 to RG6
- Sheet A4 - RG6 to Crescent Ave Pumping Station
- Sheet A5 - Crescent Ave Pumping Station to Cornwallis Connector Bridge
- Sheet A6 - Regional Treatment Plant (from Cornwallis Connector to RG3)
- Sheet A7 - RG3 to RG1



Regional Trunk Sewer System

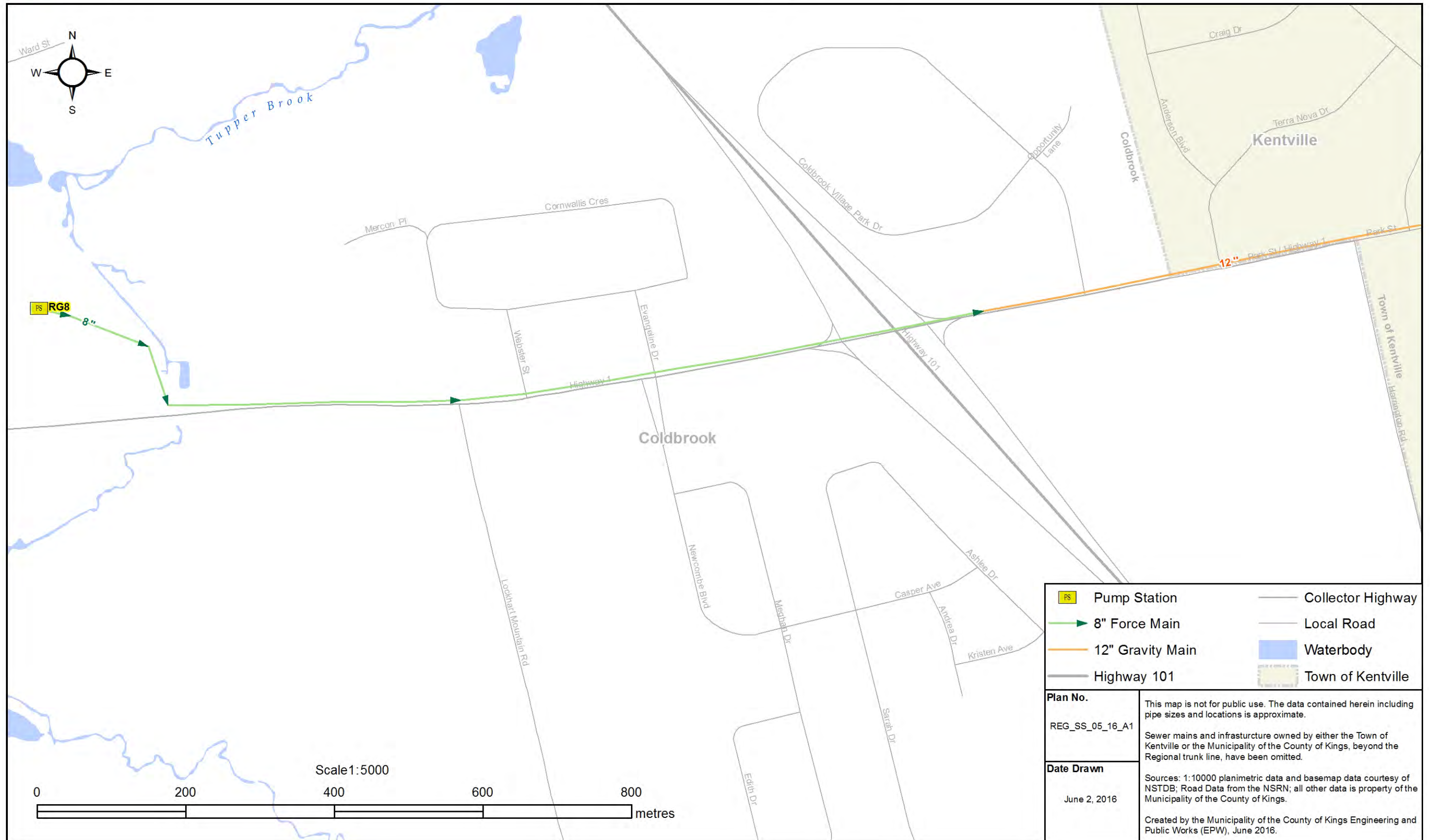
Appendix A - Overview Map (DRAFT)





Regional Trunk Sewer System

Appendix A1 - RG8 to Town of Kentville Boundary (DRAFT)



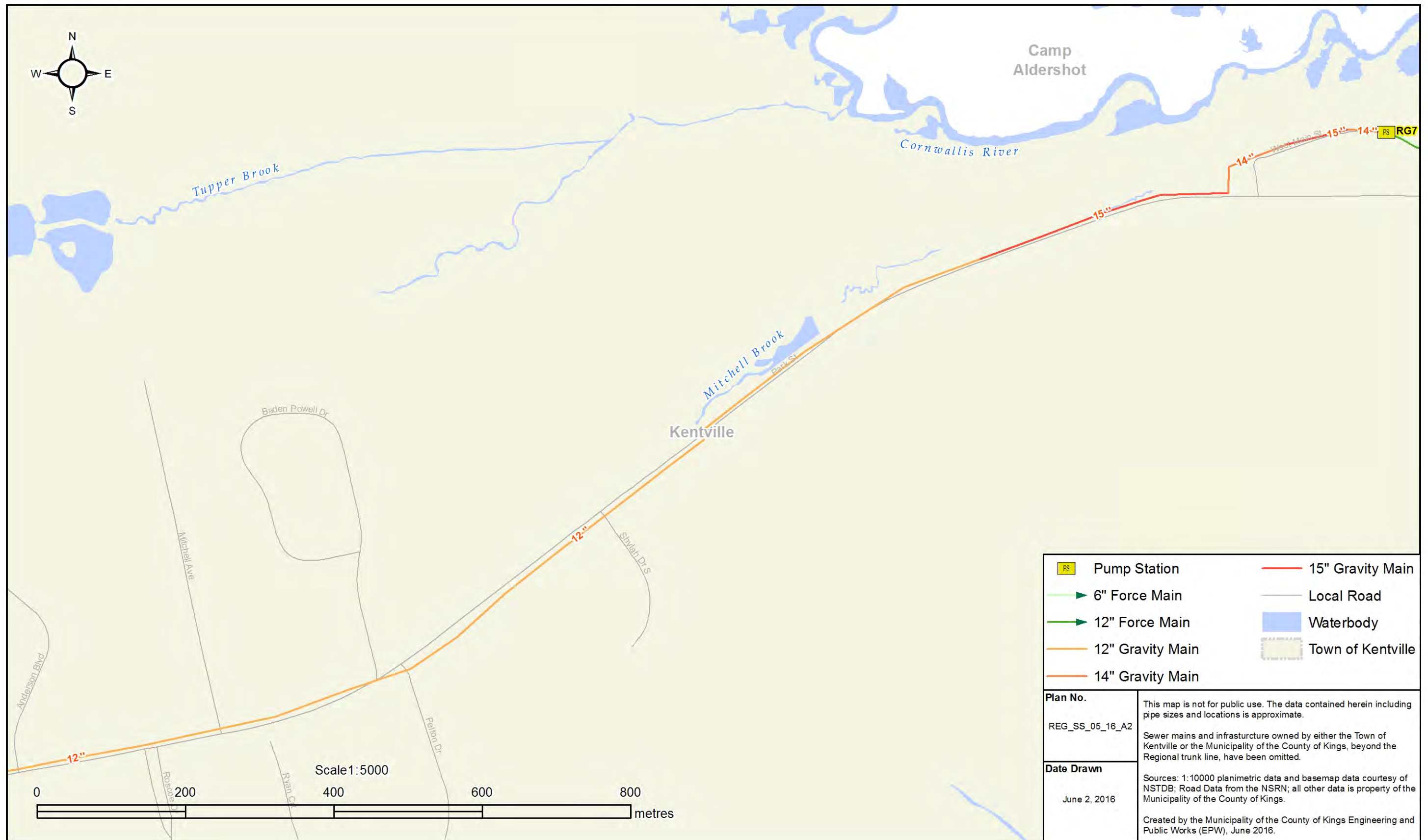
PS	Pump Station		Collector Highway
	8" Force Main		Local Road
	12" Gravity Main		Waterbody
	Highway 101		Town of Kentville

Plan No. REG_SS_05_16_A1	This map is not for public use. The data contained herein including pipe sizes and locations is approximate.
Date Drawn June 2, 2016	Sewer mains and infrastructure owned by either the Town of Kentville or the Municipality of the County of Kings, beyond the Regional trunk line, have been omitted. Sources: 1:10000 planimetric data and basemap data courtesy of NSTDB; Road Data from the NSRN; all other data is property of the Municipality of the County of Kings. Created by the Municipality of the County of Kings Engineering and Public Works (EPW), June 2016.



Regional Trunk Sewer System

Appendix A2: Anderson Blvd. to RG7 (DRAFT)



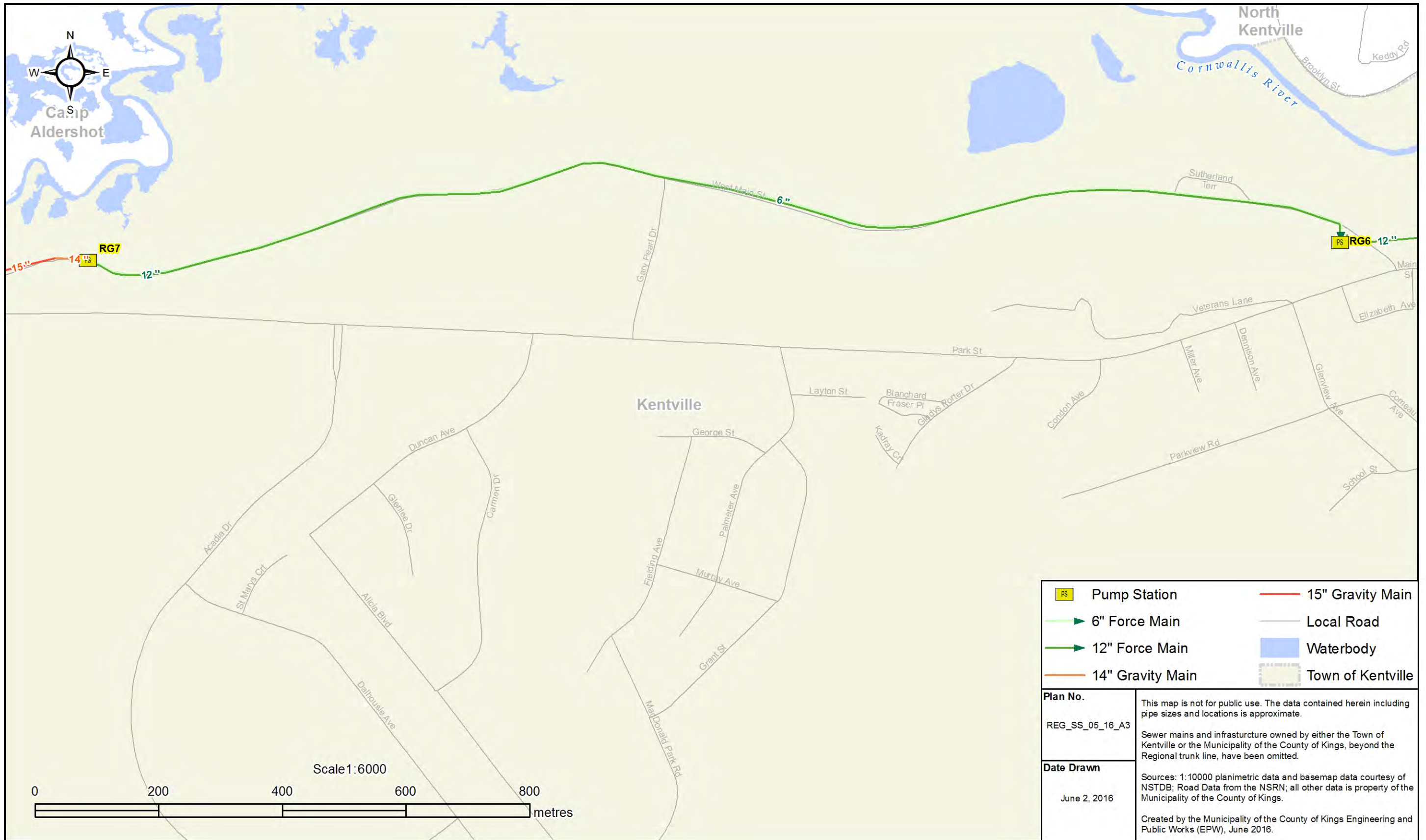
Pump Station	15" Gravity Main
6" Force Main	Local Road
12" Force Main	Waterbody
12" Gravity Main	Town of Kentville
14" Gravity Main	

Plan No. REG_SS_05_16_A2	<p>This map is not for public use. The data contained herein including pipe sizes and locations is approximate.</p> <p>Sewer mains and infrastructure owned by either the Town of Kentville or the Municipality of the County of Kings, beyond the Regional trunk line, have been omitted.</p> <p>Sources: 1:10000 planimetric data and basemap data courtesy of NSTDB; Road Data from the NSRN; all other data is property of the Municipality of the County of Kings.</p> <p>Created by the Municipality of the County of Kings Engineering and Public Works (EPW), June 2016.</p>
Date Drawn June 2, 2016	



Regional Trunk Sewer System

Appendix A3 - RG7 to RG6 (DRAFT)



PS	Pump Station		15" Gravity Main
	6" Force Main		Local Road
	12" Force Main		Waterbody
	14" Gravity Main		Town of Kentville

Plan No.
REG_SS_05_16_A3

This map is not for public use. The data contained herein including pipe sizes and locations is approximate.

Sewer mains and infrastructure owned by either the Town of Kentville or the Municipality of the County of Kings, beyond the Regional trunk line, have been omitted.

Date Drawn
June 2, 2016

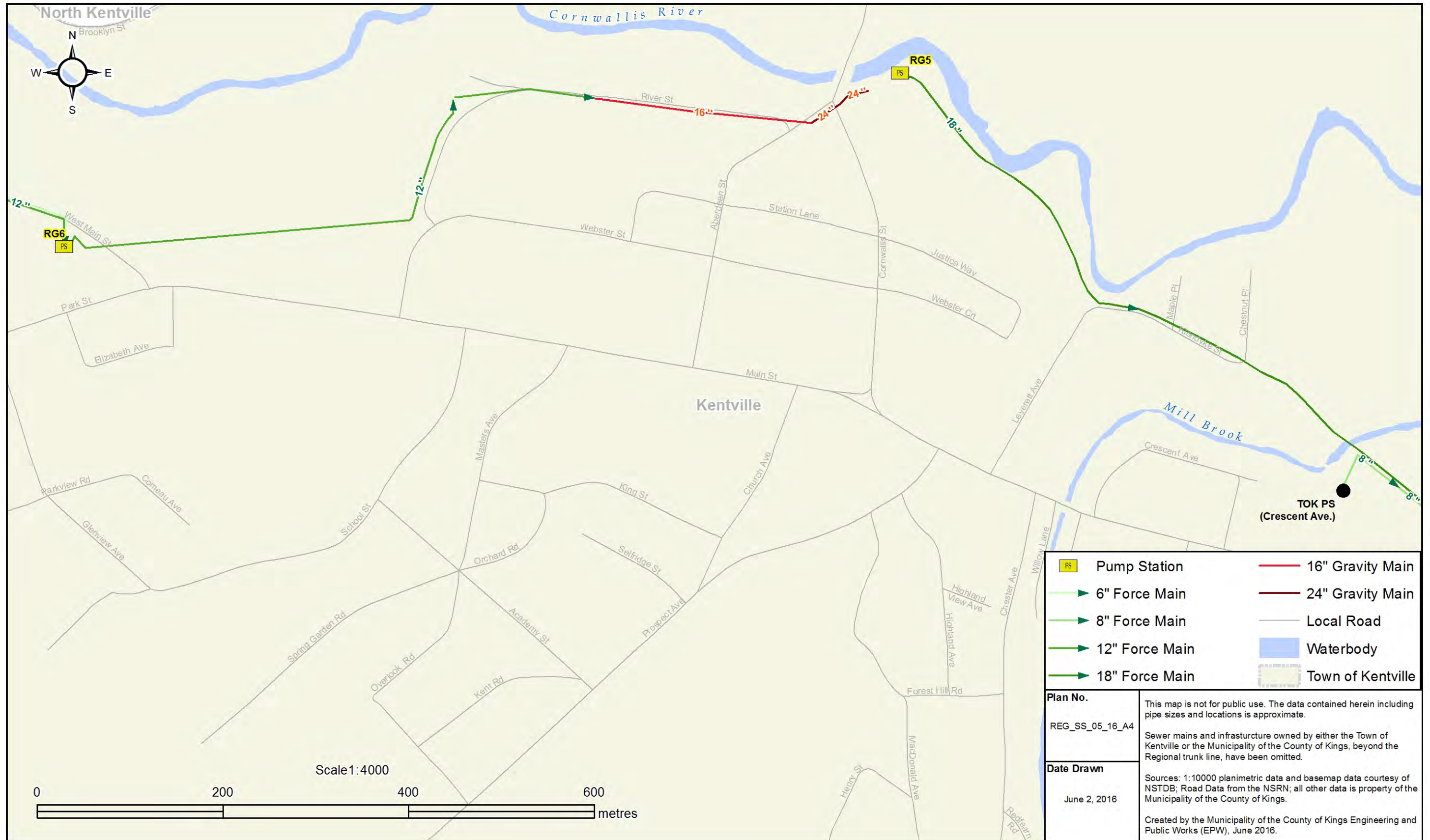
Sources: 1:10000 planimetric data and basemap data courtesy of NSTDB; Road Data from the NSRN; all other data is property of the Municipality of the County of Kings.

Created by the Municipality of the County of Kings Engineering and Public Works (EPW), June 2016.



Regional Trunk Sewer System

Appendix A4 - RG6 to Crescent Ave. Pumping Station (DRAFT)



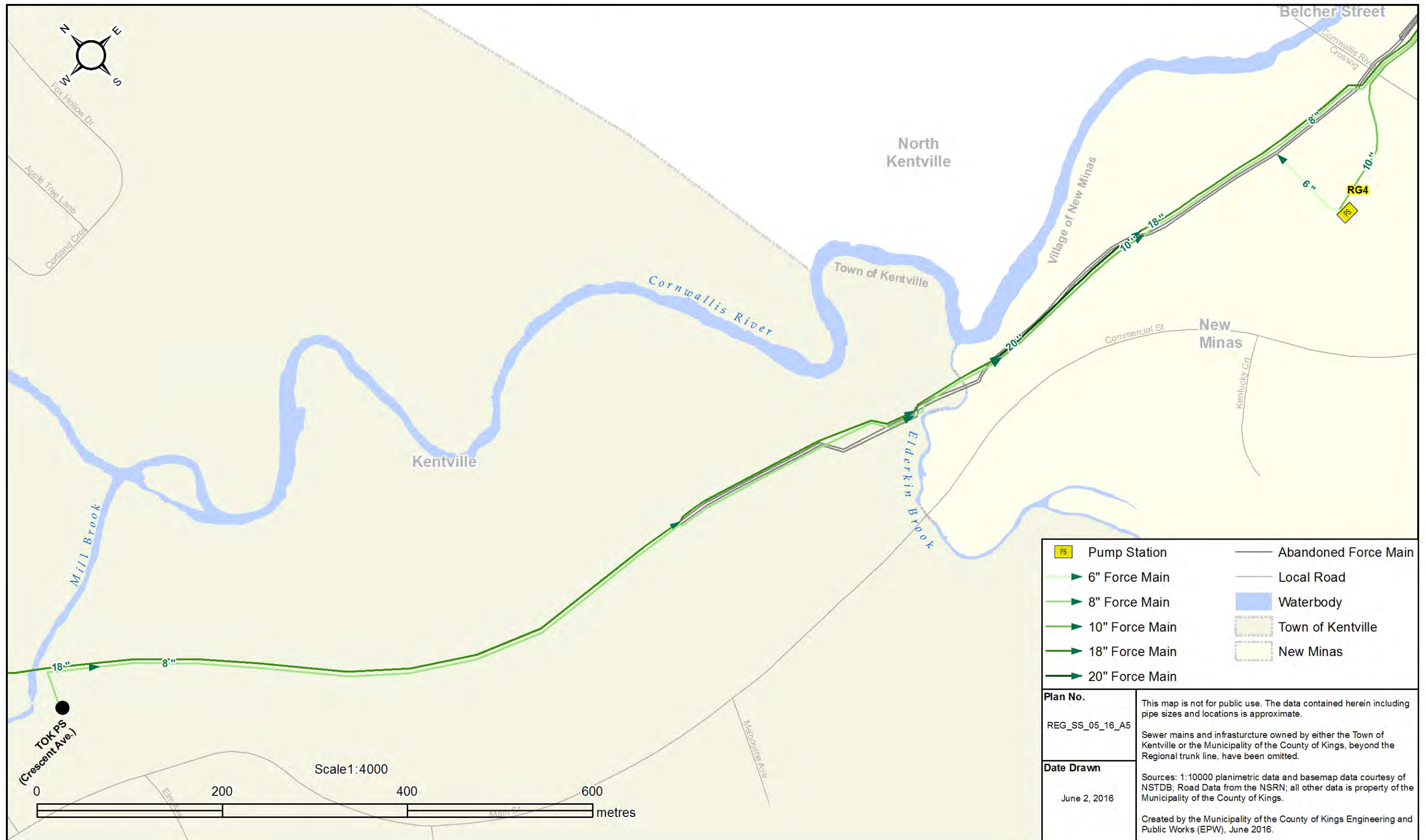
	Pump Station		16" Gravity Main
	6" Force Main		24" Gravity Main
	8" Force Main		Local Road
	12" Force Main		Waterbody
	18" Force Main		Town of Kentville

Plan No. REG_SS_05_16_A4	This map is not for public use. The data contained herein including pipe sizes and locations is approximate.
Date Drawn June 2, 2016	Sewer mains and infrastructure owned by either the Town of Kentville or the Municipality of the County of Kings, beyond the Regional trunk line, have been omitted. Sources: 1:10000 planimetric data and basemap data courtesy of NSTDB; Road Data from the NSRN; all other data is property of the Municipality of the County of Kings. Created by the Municipality of the County of Kings Engineering and Public Works (EPW), June 2016.



Regional Trunk Sewer System

Appendix A5 - Crescent Ave. Pumping Station to Cornwallis Connector Bridge (DRAFT)



PS	Pump Station		Abandoned Force Main
	6" Force Main		Local Road
	8" Force Main		Waterbody
	10" Force Main		Town of Kentville
	18" Force Main		New Minas
	20" Force Main		

Plan No.
REG_SS_05_16_A5

This map is not for public use. The data contained herein including pipe sizes and locations is approximate.

Sewer mains and infrastructure owned by either the Town of Kentville or the Municipality of the County of Kings, beyond the Regional trunk line, have been omitted.

Date Drawn
June 2, 2016

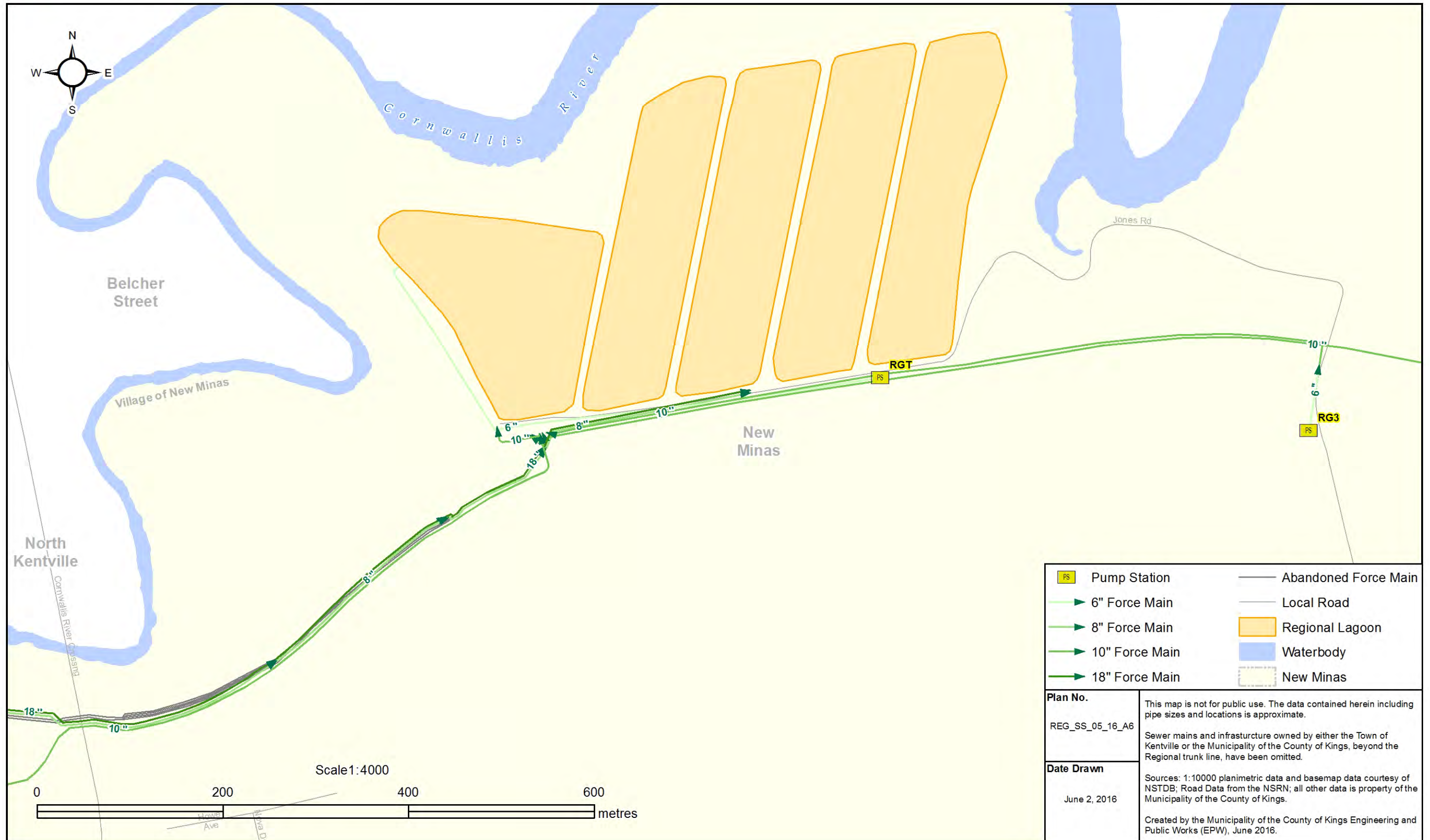
Sources: 1:10000 planimetric data and basemap data courtesy of NSTDB; Road Data from the NSRN; all other data is property of the Municipality of the County of Kings.

Created by the Municipality of the County of Kings Engineering and Public Works (EPW), June 2016.



Regional Trunk Sewer System

Appendix A6 - Regional Treatment Plant (from Cornwallis Connector to RG3) (DRAFT)



PS	Pump Station		Abandoned Force Main
	6" Force Main		Local Road
	8" Force Main		Regional Lagoon
	10" Force Main		Waterbody
	18" Force Main		New Minas

Plan No.
REG_SS_05_16_A6

Date Drawn
June 2, 2016

This map is not for public use. The data contained herein including pipe sizes and locations is approximate.

Sewer mains and infrastructure owned by either the Town of Kentville or the Municipality of the County of Kings, beyond the Regional trunk line, have been omitted.

Sources: 1:10000 planimetric data and basemap data courtesy of NSTDB; Road Data from the NSRN; all other data is property of the Municipality of the County of Kings.

Created by the Municipality of the County of Kings Engineering and Public Works (EPW), June 2016.



Regional Trunk Sewer System

Appendix A7 - RG3 to RG1 (DRAFT)



Pump Station	12" Gravity Main
6" Force Main	Highway 101
8" Force Main	Collector Highway
10" Force Main	Local Road
Abandoned Force Main	Waterbody
8" Gravity Main	New Minas
10" Gravity Main	

Plan No. REG_SS_05_16_A7	This map is not for public use. The data contained herein including pipe sizes and locations is approximate.
Date Drawn June 2, 2016	Sewer mains and infrastructure owned by either the Town of Kentville or the Municipality of the County of Kings, beyond the Regional trunk line, have been omitted. Sources: 1:10000 planimetric data and basemap data courtesy of NSTDB; Road Data from the NSRN; all other data is property of the Municipality of the County of Kings. Created by the Municipality of the County of Kings Engineering and Public Works (EPW), June 2016.



MUNICIPALITY OF THE COUNTY OF KINGS
Regional Sewer Committee Policy (Draft)

APPENDIX B
TERMS OF REFERENCE
TECHNICAL SUBCOMMITTEE

DRAFT



Municipality of the County of Kings

Regional Sewer Technical Subcommittee (DRAFT)

Purpose

1. The Subcommittee will provide the Committee advice on technical, operational, and long term capital planning of the Kings Regional Sewer System (the "System").

Related Legislation and Policy

2. The following legislation may be referenced to inform interpretation of and provide context for the work of the Committee:
 - a. *Environment Act 1994-95*, Province of Nova Scotia
 - b. *Fisheries Act RSC 1985*, Government of Canada
 - c. Regional Sewer Treatment Plant, Approval to Operate No. 2008-065597-A03, Province of Nova Scotia
 - d. Municipal By-law 64, *Meetings and Procedure*
 - e. Municipal By-law 91, *Sewer Discharge*
 - f. Municipal By-law 98, *Wastewater Sewer*
 - g. Municipal By-law 102, *Committees Governance*
 - h. *Sewers By-law* (Chapter 72), Town of Kentville
 - i. *Sewer By-law*, By-law #3, Village of New Minas
 - j. Municipal Policy FIN 05-006 Procurement
 - k. Municipal Policy EPW-04-010 Engineering Services Procurement

Definitions

3. The following definitions will be used to interpret these Terms of Reference:
 - a. "Agreements" means the agreements between the Partners.
 - b. "Council" means the Council of the Municipality of the County of Kings.
 - c. "EPW" means the Engineering and Public Works, Lands and Parks Services Department of the Municipality of the County of Kings.
 - d. "Partners" means the Municipality of the County of Kings (the "Municipality"), Town of Kentville (the "Town"), Village of New Minas (the "Village") and PepsiCo Foods Canada ("PepsiCo").
 - e. "Partner Staff" means employees of the Partners
 - f. "Regional STP" means the sewage treatment facility owned and operated by the Municipality located at 221 Jones Road in New Minas.
 - g. "Regional Trunk System" means the series of gravity and force mains, and lift stations owned and operated by the Municipality as depicted in the drawings included in Appendix A of the Committee's Terms of Reference.
 - h. "System" means the treatment and collection systems consisting of the Regional STP and the Regional Trunk System.

Responsibilities

4. The Subcommittee will review and provide recommendations to the Committee on the following items:
 - a. System Annual Operating Budget;
 - b. Annual Capital budget and proposed capital projects; and
 - c. Annual review of 5-Year Capital Plan.
5. The Subcommittee may provide input and advice to Committee and/or Municipal Staff as appropriate on the following matters:
 - a. As required, review reports from staff and others relating to the System's compliance with laws, regulations, and other obligations governing the System;
 - b. Matters regarding the Agreements;



Municipality of the County of Kings Regional Sewer Technical Subcommittee (DRAFT)

- c. Development of operational policies;
 - d. Possible external funding sources for capital projects; and
 - e. Other matters assigned by the Committee.
6. All recommendations made by the Subcommittee shall be made in writing and submitted to the Committee at the earliest opportunity.

Membership & Term of Appointment

7. The Subcommittee shall be composed of the following Voting Members.
- a. Director of EPW for the Municipality or designee;
 - b. Director of Public Works for the Town or designee;
 - c. Public Works Supervisor for the Village or designee; and
 - d. One (1) representative from PepsiCo whom has operational or environmental oversight responsibilities for the New Minas facility.
8. The Subcommittee Chair shall be the Municipality's Voting Member. The Vice-Chair shall be elected from the remaining Voting Members at the first Subcommittee meeting of each calendar year.
9. The non-Voting Members of the Subcommittee shall consist of the following:
- a. Operations Supervisor for the Municipality;
 - b. Supervisor of Engineering Services for the Municipality;
 - c. Municipality's Operator responsible for the Regional STP or designee;
 - d. Recording Secretary provided by the Municipality; and
 - e. Additional Partner Staff may attend as needed.
10. Only Voting and non-Voting Members of the Subcommittee may participate in Subcommittee meeting deliberations.

Meetings & Governance Matters

Subcommittee Values

11. The Subcommittee is expected to operate in compliance with the Municipal Code of Conduct, and the policies, laws, and regulations governing the Municipality. The Subcommittee shall consider the economic, environmental, and social/cultural implications for the region in its decision making.

Accountability and Reporting

12. The Subcommittee is accountable to Council and the Committee.
13. The Subcommittee shall report to the Committee as often as necessary but at least following specific requests from the Committee. Reporting shall normally be done through the Subcommittee Chair.
14. The Municipality's Voting Member will provide periodic updates on the activities and decisions of Council pertinent to the work of the Subcommittee.
15. The Subcommittee shall annually review, discuss and assess its performance. The Subcommittee will review these Terms of Reference on an annual basis and recommend any necessary changes to the Committee and Council.



Municipality of the County of Kings Regional Sewer Technical Subcommittee (DRAFT)

Meeting

16. Between November and March, the Subcommittee shall meet at least monthly regarding the Subcommittee' Responsibilities related to the Annual Capital and Operating budget. During the rest of the year, meetings shall be held as requested by the Committee, the Subcommittee Chair, or at the written request of a majority of the Subcommittee's Voting Members to review and provide recommendations to the Committee related to the Subcommittee' Responsibilities as they arise.
17. In the absence of the Chair of the Subcommittee, the Vice-Chair will preside over the meeting. A copy of the minutes or notes of each meeting shall be provided to each member in a timely fashion.

Quorum and Decision Making

18. A quorum consists of three (3) voting members of the Subcommittee.
19. The Chair presiding at any meeting of the Subcommittee must vote on all matters considered by the Subcommittee.
20. All motions require the approval of a simple majority of the Voting Members. Tie votes are considered a negative vote.

Rules of Procedure

21. The Subcommittee shall conduct business according to Part II of Bourinot's Rules of Order, 4th revised edition except as modified by By-law 102.

Communications

22. The Subcommittee members will maintain direct, open, productive communications with staff, Committee and other key advisors as appropriate.

2018/19 Regional Sewer Operating and Capital Budgets

Regional Sewer Committee - January 25, 2018 (updated to February 15, 2018)

YEAR IN REVIEW

The 2017/18 year to date operating expenses have three significant variances from budget. The forecast total expenditures for 2017/18 are expected to be \$79.4k (5%) below budget primarily due to the following:

Expenditure	Budget	Forecast Savings \$	Forecast Savings %
Treatment Power	\$ 358.7	\$ 56.9	16%
Wages	\$ 144.2	\$ 10.9	8%
Benefits	\$ 27.5	\$ 2.1	8%
Power - pumping	\$ 53.6	\$ 2.9	5%
Vehicle expense	\$ 24.0	\$ 4.8	20%
Other operating expenses	\$ 274.9	\$ (1.1)	0%
Total Operating Expense	\$ 882.9	\$ 76.5	9%
Interest expense	\$ 38.6	\$ 2.9	8%
Other capital expenses	\$ 528.4	\$ -	0%
Total Capital Expense	\$ 567.0	\$ 2.9	1%
Total Budget	\$ 1,449.9	\$ 79.4	5%

The variances can be partly attributed to the following:

- Closure of one of the pie plants, which appears to be the primary change that has reduced the total BOD loading entering the system.
- Lower BOD loading from all partners, which reduced power consumption for aeration of lagoons (both Drum Screen Building (Cells 1 & 2) and Old Blower Building (Cells 3, 4, 5))
- Actual hours for 2017/18 are forecast to be about 380 hours (8%) lower than the 4,800 budgeted for the year, from a combination of being unable to fill the temporary Operator position, together with hours saved associated with installation of the new conveyor, the improvements in drum screen cleaning due to the hot water wash system, and fewer repair jobs taking place. The facility was operated primarily by our Millrights (qualified operators, with additional qualifications), with assistance from our Industrial Electricians as a temporary solution. Vehicle expense allocated to the Regional facility was also correspondingly lower.
- Reduced hydraulic loading, while not as dramatic as the BOD reductions, also appears to have reduced pumping power at the lift stations.
- The Regional forcemain project did not proceed, so no new long-term debt will be required, and accordingly, no interest will be accrued this year for that new loan.

For the 2017 calendar year the average daily partner loading has been:

Partner	2017 Average Daily Loads				2016 Average Daily Loads			
	Hydraulic		BOD ₅		Hydraulic		BOD ₅	
	IGPD	%	lbs/day	%	IGPD	%	lbs/day	%
Town of Kentville	680,271	49%	3,495	53%	677,897	49%	5,160	56%
Village of New Minas	381,440	28%	1,169	18%	386,971	28%	1,583	17%
PepsiCo Canada	106,722	8%	1,466	22%	116,466	8%	1,876	21%
Municipality of Kings	213,474	15%	464	7%	213,372	15%	503	6%
Total	1,381,907	100%	6,594	100%	1,394,706	100%	9,122	100%

Compared to the previous year, all of the partners appear to have been fairly consistent with their total Hydraulic loading. However, the average total daily BOD loading dropped from over 9,100 pounds to slightly more than 6,590 pounds, with the Town of Kentville experiencing the most significant declines – dropping nearly 1,700 pounds out of the system. All of the other partners reduced their organic loading as well, although their percentage share increased slightly.

BUDGET OVERVIEW

The recommended budget will result in a net \$44.5 decrease (3%) in total expenditures when compared with last year’s budget.

- Town of Kentville cost share will decrease by \$65,700 or 9%,
- Village of New Minas share will decrease by \$9,800 (3%),
- PepsiCo share will increase by \$4,400 (3%), and the
- Municipality of Kings share will increase by \$26,600 (15%).

Since the Town of Kentville no longer needs the BOD capacity associated with Atlantic Poultry, the capital charges for that capacity now revert back to the Municipality. The changes in cost sharing are primarily due to the significant shifts in the distribution of organic loads over the past year.

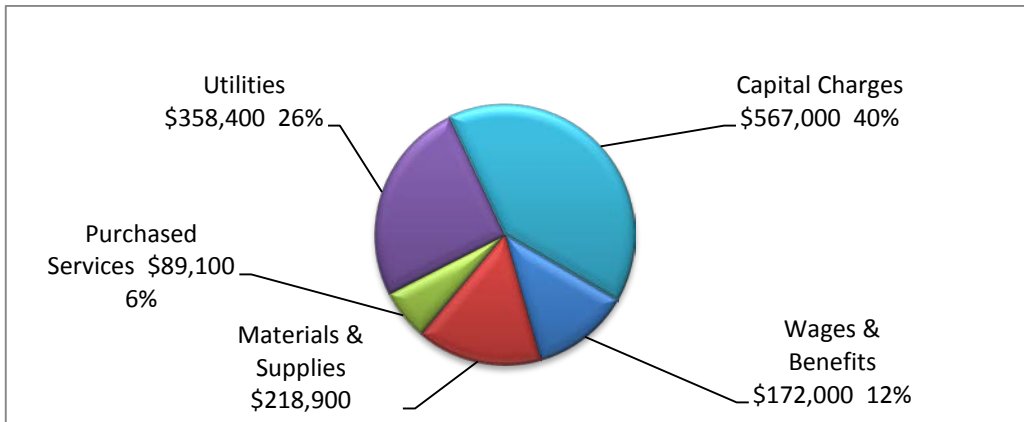
When compared with the prior year’s budget, operating costs are projected to decrease by \$44,500 or 5%, primarily related to the decreases in STP Power experienced during the past year, offset somewhat by the scheduled Nova Scotia Power rate increases of between 0.9% and 3.7%. We anticipate propane will continue as a significant expense, offset by reduced water consumption. Wage rates will increase by 2.5%, but not until November 1, 2018 (for an average of 2% for the year). We have assumed that the 2018/19 Repairs & Maintenance costs will remain at the three-year average of \$107.7k.

Total capital contributions from the partners have been budgeted to remain the same as last year, (however, as previously noted, the capital contribution related to the Atlantic Poultry Inc. (API) BOD capacity is now allocated to the Municipality instead of the Town of Kentville). Total debt service will drop by \$56,800 as two more debentures mature. However, during last year’s budget deliberations, the Committee voted to keep the total capital contributions stable and to contribute any debt savings

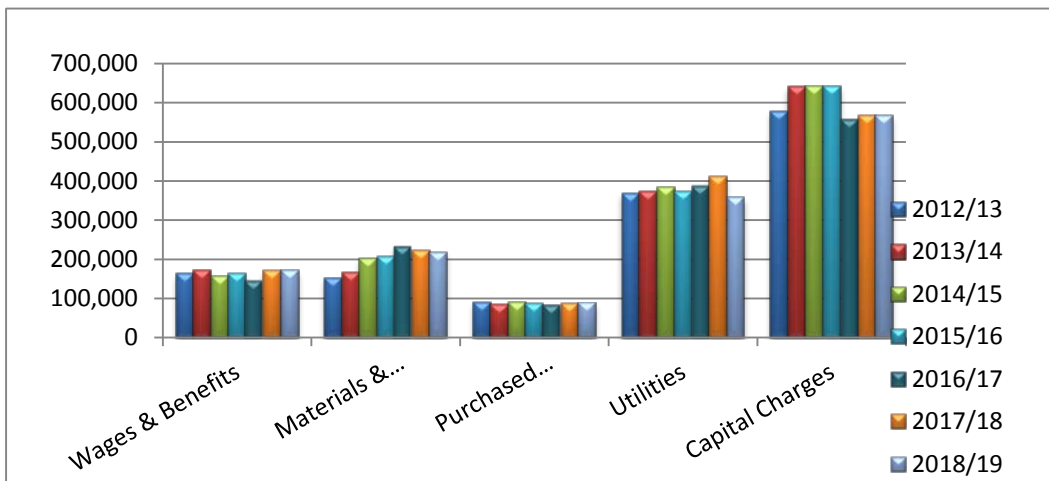
to the Depreciation Reserve. As a result, the 2018/19 contribution to the Depreciation Reserve will be \$323,400 which is \$56,800 more than last year.

The gross expenditures provided for in the 2018/19 budget total \$1,405,400. The charts below detail the Regional Sewer’s total expenditure by cost component and changes in these items. The third chart details the funding sources.

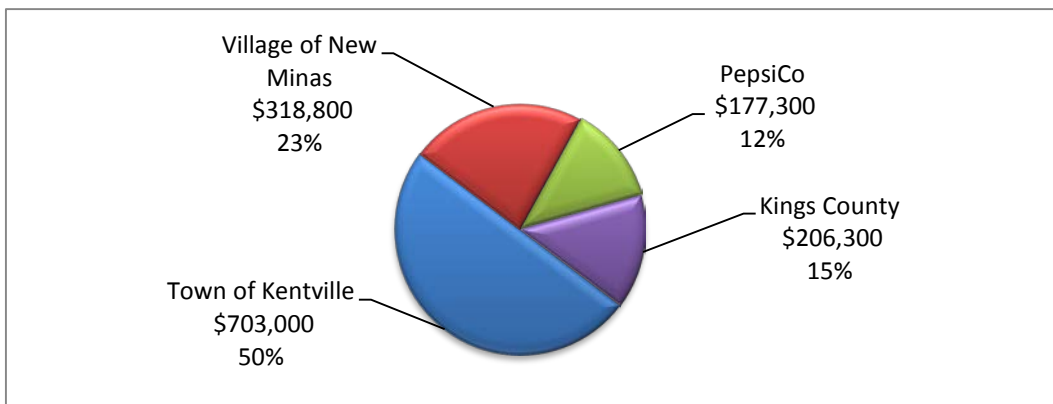
Total Expenditures - \$1,405,400 – By Cost Component



Total Expenditures - By Cost Component - Change from 2012/13 to 2018/19



Partner Contributions and Percent of Total Budget

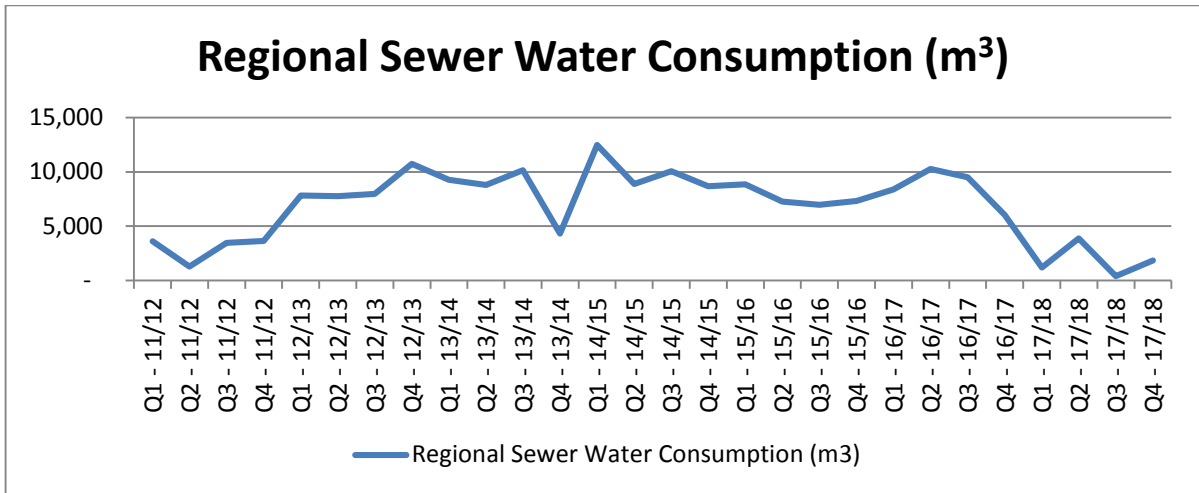


BUDGET CHANGES

Factors influencing budget items include:

- Atlantic Poultry, (API) flows discontinued in 2013/14. Since that time, cost allocations have been adjusted to reflect:
 - Designed capacity:
 - For 2014/15 and 2015/16, Municipality of Kings temporarily assumed financial responsibility for the capital charges associated with API designed load capacity.
 - For the 2016/17 and 2017/18 years, the capital charges associated with the API BOD designed capacity were allocated to the Town of Kentville.
 - For the 2018/19 year, the Municipality of Kings has resumed responsibility for these capital charges
 - Minimum Daily Loads – API minimum loads continue to be eliminated. All operational costs are shared among the 4 remaining partners based on the greater of their Actual average daily usage or their Minimum Daily Loads.
- The 2016/17 year was forecast to have a deficit of \$13,600, however, the recovery of insurance monies for repairs associated with the two incidents, (hot water wash pipe failure in the drum screen building, followed by the electrical fire in the old blower building), actually resulted in a surplus of \$8,300. The 2017/18 year is currently forecast to have a surplus of \$79,400. Since 2008/2009, the partners have voted to keep their portion of the Operating Surplus in reserve at the Municipality, rather than requiring it to be returned, in order to provide a source of funds for emergency expenditures that may arise during the year. The total Operating Surplus account is forecast to increase to \$124,200 with the addition of the 2017/18 expected surplus.
- Actual hours for 2017/18 are forecast to be about 380 hours (8%) lower than the 4,800 budgeted for the year, from a combination of being unable to fill the temporary operator position together with hours saved associated with installation of the new conveyor, the hot water wash facility, and fewer repair jobs taking place. However, we are budgeting 2018/19 assuming that the operator position is filled, and the operator, electrician and millwright hours are back to the 2017/18 levels. Wages and benefits are expected to increase by an average of 2% for the year. Essentially the total Wages & benefits budget for 2018/19 will be comparable to the budget for 2017/18.
- The Treatment Operating Expenses budget decreases by \$43,400 (6%), and the Collection Operating expenses budget decreases by \$1,100 (4%), for a net total decrease of \$44,500. Most of the Treatment decrease relates to decreases in the Treatment Power.
- Installation of Hot Water Wash for cleaning drum screens, resulting in
 - Use of propane for hot water heaters – previously estimated at \$5,000 for the year, with actual usage estimated at \$22,000
 - Lower water consumption – hot water is more efficient at cleaning the drum screens – previously estimated at \$25,000, with actual usage expected to be \$5,200.

- Water consumption has declined significantly in the past 9 months, as a result of using hot water to clean the drum screens.



- In 2017/18 we made the final payment on two debentures, which reduced our debt service by \$49,000 per year. The Sewer Forcemain project was put on hold, so \$450,000 of planned new borrowing did not occur. The budget for 2018/19 has \$56,800 less debt service than 2017/18. As noted previously, those savings are budgeted to be added to the Depreciation Reserve, together with the regular contribution.
- Depreciation Reserves continue to be funded at 1.75% of the historic cost of the tangible capital assets, together with debt service savings keeping the total capital contribution relatively stable. As of March 31, 2017, Regional Sewer had completed capital assets with an historic Cost of \$15.2 million, offset by Accumulated Depreciation of \$9.4 million, for a Net Book Value of \$5.8 million, (38%).
- Depreciation Reserves are expected to have a balance of \$605,480 at March 31, 2018 after funding the current year capital projects. The coming year projects the addition of \$323,400 to the Reserve, offset by the \$550,000 funding for the capital projects identified below. The forecast balance at March 31, 2019 would then be \$378,855.

2018/19 CAPITAL BUDGET and 5 YEAR PLAN (modified)

The capital budget reflects the need to invest in our infrastructure, plan for growth and maintain environmental compliance. Long term financial planning ensures that service levels are maintained and our assets are in a good state of repair without significant contribution increases in any particular year. Detailed descriptions of each proposed project are attached to this report.

2018/19 CAPITAL BUDGET (modified)

	Carryover Budget	2018/19 Budget	Total 2018/19	Depreciation Reserve
Regional Headworks	-	350,000	350,000	350,000
Regional Sewerlines	-	150,000	150,000	150,000
Regional STP Aeration (design)	-	50,000	50,000	50,000
	-	550,000	550,000	550,000

2018/19 – 2022/23 CAPITAL FORECAST (modified)

	TOTAL	2018/19	2019/20	2020/21	2021/22	2022/23
Regional Headworks	350,000	350,000	-	-	-	-
Regional Aeration	1,050,000	50,000	1,000,000	-	-	-
Regional Sewerlines	1,550,000	150,000	50,000	750,000	400,000	200,000
	2,950,000	550,000	1,050,000	750,000	400,000	200,000

2018/19 - 2022/23 CAPITAL PROJECT FUNDING

	TOTAL	2018/19	2019/20	2020/21	2021/22	2022/23
Depreciation Reserve	1,750,000	550,000	300,000	300,000	400,000	200,000
Long term debt	1,200,000	-	750,000	450,000	-	-
	2,950,000	550,000	1,050,000	750,000	400,000	200,000

The replacement of the forcemain section from the Curling club to the Research Station in Kentville has been deferred for two years, until the Headworks and Aeration projects are completed, as staff have identified these as higher priorities.

It should be noted that the partners are not committing to the projects in the Capital Forecast, only the current year budget. Each year the infrastructure must be evaluated to determine priorities in light of issues arising during the year, as well as the long-term plan for infrastructure replacement.

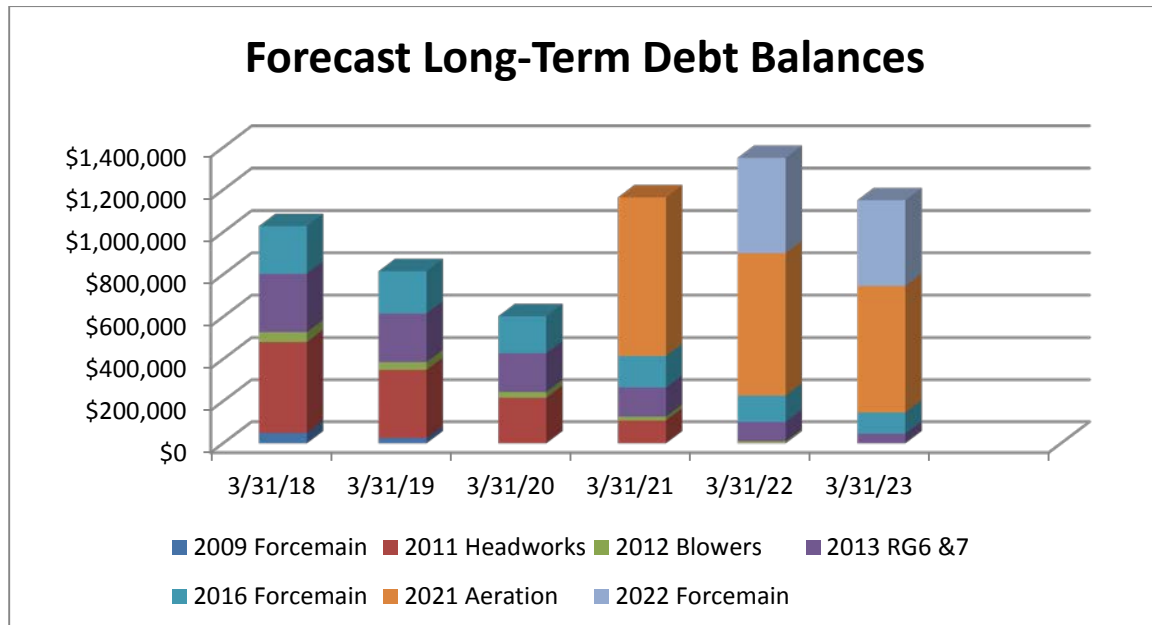
LONG TERM DEBT

As of March 31, 2018, the total Regional Debt outstanding is \$1.03 million.

Principal repayments of \$212.8k are required in 2018/19, as well as interest of \$30.8. We expect the long-term debt balance will be \$815.7k by March 31, 2019.

The below chart illustrates the various loans outstanding, together with estimated future debt requirements. The future debt forecast is based on the 2018/19 to 2022/23 Capital Forecast on the previous page. The Future Debt Forecast would look different, depending on the actual capital needs and financing decisions.

The project years indicated below represent the year that the debenture was issued, which is usually the year after the projects were completed.

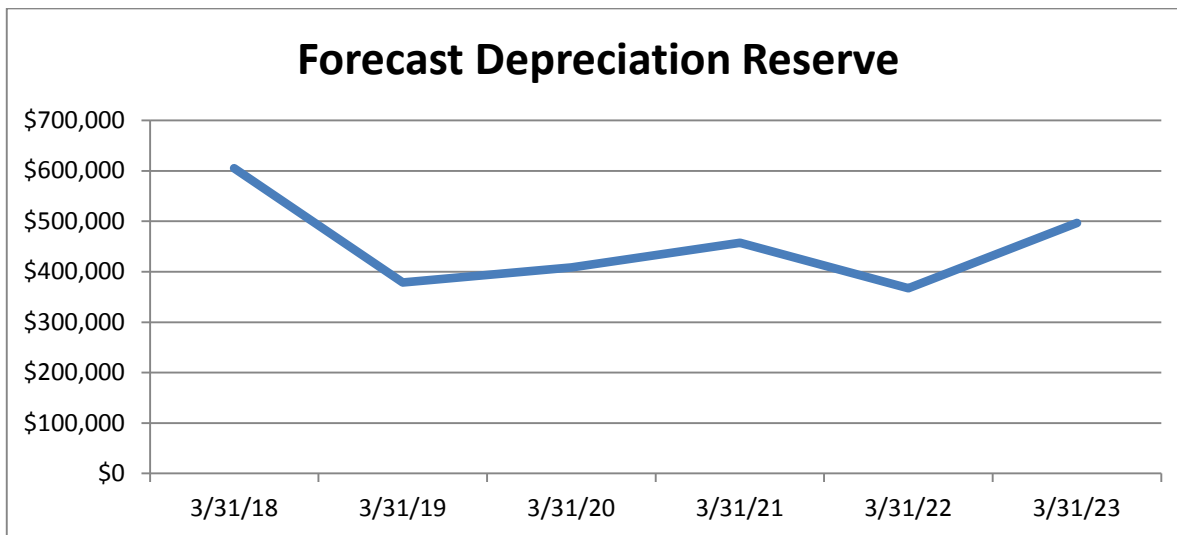


DEPRECIATION RESERVE

As of March 31, 2018, the Depreciation Reserve is expected to be \$605,480 after financing the 2017/18 capital projects. Assuming:

- future year contributions to the reserve continue at 1.75% of the historic cost of capital assets, plus
- debt savings associated with debt repayment are added to the reserve, and
- capital projects identified previously as being funded from Depreciation Reserves, then

the 5 year forecast of the reserve balance would appear as follows:



LONG-TERM ASSET MANAGEMENT

At March 31, 2017, the Regional Sewer capital assets had a historic cost of \$15.18 million. Annual Depreciation Expense is calculated based on historic cost. For 2017/18, Depreciation Expense is estimated to be \$475k, which represents about 3% of historic cost. The 2018/19 budget estimates a partner contribution of \$323.4k or 2.1% which is an improvement over the 1.75% adopted previously.

As replacement cost is significantly higher than historic cost, especially for some of the infrastructure that was built in the 1970's and 1980's, we suggest that the partners annually evaluate further increases in the annual contribution to the Depreciation Reserve to help ensure that sufficient funds are available for future asset replacement. It should be noted that if the Regional Sewer were regulated by the UARB (Utilities & Review Board), we would be required to contribute 100% of Depreciation Expense to the Depreciation Reserve account.

**THE MUNICIPALITY OF THE COUNTY OF KINGS
PROPOSED OPERATING BUDGET
REGIONAL SEWER**

	2018/2019 Budget						2018/19 Preliminary Budget	2017/18 Forecasted Actuals	2017/18 Approved Budget
	%	Capital	%	Collection	%	Treatment			
REVENUE									
Operating									
Town of Kentville	43.7%	247.7	55.2%	106.3	53.5%	345.8	703.0	768.7	768.7
Village of New Minas	23.7%	134.4	25.0%	48.1	20.8%	134.6	318.8	328.6	328.6
PepsiCo Canada	11.0%	62.4	6.6%	12.7	15.7%	101.4	177.3	172.9	172.9
County of Kings	21.6%	122.5	13.2%	25.5	9.9%	64.0	206.3	179.7	179.7
Total Operating	100.0%	567.0	100.0%	192.6	100.0%	645.8	1,405.4	1,449.9	1,449.9
Non- Operating									
Transfer from operating reserve				-		-			
Interest on reserve funds				-		-			
Total non-operating				-		-	-	-	-
TOTAL REVENUE		567.0		192.6		645.8	1,405.4	1,449.9	1,449.9
EXPENDITURES									
Operating									
Support Services		-		22.3		44.7	67.0	66.0	66.0
Insurance		-		7.4		14.7	22.1	21.8	22.1
Monitoring		-		1.5		0.7	2.2	2.2	2.2
Wages		-		48.2		96.3	144.5	133.3	144.2
Benefits		-		9.2		18.3	27.5	25.4	27.5
Power - Pumping		-		52.1		-	52.1	50.7	53.6
Treatment		-		-		85.0	85.0	77.3	77.0
Power - Treatment		-		-		306.3	306.3	301.8	358.7
Vehicle Expense		-		16.0		8.0	24.0	19.2	24.0
Maintenance		-		35.9		71.8	107.7	108.7	107.6
Total Operating		-		192.6		645.8	838.4	806.4	882.9
Non - operating									
Financing Costs		-		-		-	-	-	-
Debenture - Interest		30.8		15.1		15.7	30.8	35.7	38.6
Debenture - Principal		212.8		95.5		117.3	212.8	261.8	261.8
Transfer to Depreciation Reserves		323.4		93.8		229.6	323.4	266.6	266.6
Total non-operating		567.0		204.4		362.6	567.0	564.1	567.0
TOTAL EXPENDITURES				397.0		1,008.4	1,405.4	1,370.5	1,449.9
SURPLUS (DEFICIT)							(0.0)	79.4	0.0

		HYDRAULIC LOAD ('000) IGPD						BOD LOAD (LBS/DAY)					
		Maximum Daily Load (1)	Design Daily Load (2)	Expected Daily Load (3)	Minimum Daily Load (4)	Measured Monthly (5)	Est. Actual By Agreement (6)	Maximum Daily Load (7)	Design Daily Load (8)	Expected Daily Load (9)	Minimum Daily Load (10)	Measured Monthly (11)	Est. Actual By Agreement (12)
KENTVILLE	Residential Population	987	897					3,720	3,382				
	Research Station	110	100					233	212				
	Institutional & Commercial	242	220					484	440				
	Infiltration	220	200					110	100				
	Industrial Park	220	200					468	425				
	Total Kentville	1,779	1,617	1,617	896	680	896	5,015	4,559	4,559	2,850	3,495	3,495
NEW MINAS	Residential Population	1,024	931	931	405	381	405	2,321	2,110	2,110	689	1,169	1,169
	Industrial - Pepsico Canada	143	130	130	68	107	107	3,300	3,000	3,000	1,550	1,466	1,550
	Industrial - Atlantic Poultry												
MUN OF KINGS	Greenwich Residential	55	50					117	106				
	Coldbrook Residential	99	90					406	369				
	Meadowview Residential	33	30					70	64				
	Reserve Capacity	288	262					468	425				
	Subtotal MOK	475	432	432	215	213	215	1,060	964	964	480	464	480
	Reserve Capacity - Atlantic Poultry	330	300	300				1,914	1,740				
	Total MOK	805	732	732	215	213	215	2,974	2,704	2,704	480	464	480
TOTALS		3,751	3,410	3,410	1,584	1,382	1,623	13,610	12,373	12,373	5,569	6,594	6,694
Notes:													
1. Values on columns (6) & (12) appear as "Actual Loads" in User Charge calculations.													

	CAPITAL PORTION OF ANNUAL COSTS								OPERATING PORTION OF ANNUAL COSTS								COST SUMMARY			
	DESIGN LOAD				COLLECTION		TREATMENT		ESTIMATED ACTUAL LOAD				COLLECTION		TREATMENT		COLLECTION	TREATMENT	TOTAL	% OF TOTAL
	1 Hydraulic (‘000) IGPD	2 % of Total	3 BOD (lbs./day)	4 % of Total	5 % of Capital	6 Capital Cost	7 % of Capital	8 Capital Cost	9 Hydraulic (‘000) IGPD	10 % of Total	11 BOD (lbs./day)	12 % of Total	13 % of Operating	14 Operating Cost	15 % of Operating	16 Operating Cost	(6)+(14)	(8)+(16)		
					204.4		362.6						192.6		645.8	397.0	1,008.4	1,405.4	100.00%	
KENTVILLE	1,617	47.42%	4,559	36.85%	47.42%	96.9	41.60%	150.8	896	55.22%	3,495	52.21%	55.22%	106.3	53.56%	345.8	203.2	496.6	699.8	49.79%
NEW MINAS	931	27.30%	2,110	17.05%	27.30%	55.8	21.67%	78.6	405	24.96%	1,169	17.46%	24.96%	48.1	20.84%	134.6	103.9	213.2	317.1	22.56%
PEPSICO CANADA	130	3.81%	3,000	24.25%	3.81%	7.8	15.05%	54.6	107	6.58%	1,550	23.16%	6.58%	12.7	15.69%	101.4	20.5	156.0	176.5	12.56%
KINGS	732	21.47%	2,704	21.85%	21.47%	43.9	21.68%	78.6	215	13.25%	480	7.17%	13.25%	25.5	9.91%	64.0	69.4	142.6	212.0	15.08%
TOTALS	3,410	100.00%	12,373	100.00%	100.00%	204.4	100.00%	362.6	1,623	100.00%	6,694	100.00%	100.00%	192.6	100.00%	645.8	397.0	1,008.4	1,405.4	100.00%

Month Ending	Lab Tech 1	Millwright Operator	Supervisor	Ops Technician	Skilled Labourer 2	Millwright Operator	Treatment Plant Operator	Treatment Plant Operator	Treatment Plant Operator	Millwright Operator	Compliance Officer	Industrial Electrician	Industrial Electrician	Maintenance Planner	Admin Assistant	Skilled Labourer & Vactor Operator	Treatment Plant Operator	Total	Prior year
	Janice MacDonald	Les Llewellyn	Bill MacLellan /Thoren Pelly	John Schofield	Tom Nichols	Devin Davidson	Robert Creemer	Larry Fredericks	Fred Norton	Clyde Bennett	Lisa Langille	Austin Brown	Chris Rawding	Trevor Surette/ Darlene Smith	Colleen Pearce	John Walsh	David Lord	Total	Prior year
April	24.0	23.0	24.0	30.0	34.0	35.0	-	-	84.5	8.0	12.0	22.0	14.0	12.0	12.0	32.0	-	366.5	433.7
May	24.0	61.0	24.0	36.0	12.0	36.0	-	-	40.0	1.0	12.0	68.0	14.0	12.0	12.0	7.0	-	359.0	360.0
June	24.0	81.0	12.0	36.0	24.0	35.0	4.0	-	-	-	12.0	28.0	5.0	12.0	12.0	16.0	-	301.0	393.0
July	24.0	41.0	-	36.0	8.0	79.0	-	-	-	5.0	12.0	25.5	1.0	12.0	12.0	22.0	-	277.5	370.0
August (3 pay periods)	36.0	61.0	24.0	55.9	32.0	160.5	-	-	-	5.0	18.0	30.5	18.0	18.0	18.0	5.0	4.0	485.9	294.0
September	24.0	56.0	24.0	36.0	17.0	103.0	-	-	-	-	12.0	49.5	13.5	12.0	12.0	29.0	-	388.0	491.5
October	24.0	60.0	24.0	36.0	6.0	85.5	-	-	-	-	12.0	63.0	19.5	12.0	12.0	6.0	-	360.0	370.0
November	24.0	69.5	24.0	36.0	1.0	21.0	-	-	-	3.0	12.0	52.0	31.0	12.0	12.0	14.0	-	311.5	403.0
December	24.0	41.0	24.0	36.0	83.0	93.0	0.5	-	-	1.0	12.0	21.0	5.0	12.0	12.0	16.0	-	380.5	420.2

																			Total	
Actuals Hrs to December 23, 2017	228.0	493.5	180.0	337.9	217.0	648.0	4.5	-	124.5	23.0	114.0	359.5	121.0	114.0	114.0	147.0	4.0	3,229.9	3,535.4	
Hourly Rate (including Benefits)	\$ 38.04	\$ 38.98	\$ 44.76	\$ 28.73	\$ 23.95	\$ 38.98	\$ 35.39	\$ 35.39	\$ 35.39	\$ 38.98	\$ 38.74	\$ 38.98	\$ 38.98	\$ 35.39	\$ 27.31	\$ 23.95	\$ 35.39			
Actual Charge to December 23, 2017	8,673	19,237	8,057	9,708	5,197	25,259	159	-	4,406	897	4,416	14,013	4,717	4,034	3,113	3,521	142	\$ 115,549		
2017/18 Year End Estimated Times	312.9	677.2	247.0	463.7	297.8	889.2	6.2	-	170.8	31.6	156.4	493.3	166.0	156.4	156.4	201.7	5.5	4,432	4,817	
Hourly Rate (including Benefits)	\$ 38.04	\$ 38.98	\$ 44.76	\$ 28.73	\$ 23.95	\$ 38.98	\$ 35.39	\$ 35.39	\$ 35.39	\$ 38.98	\$ 38.74	\$ 38.98	\$ 38.98	\$ 35.39	\$ 27.31	\$ 23.95	\$ 35.39			
Year End Forecast	\$ 11,903	\$ 26,397	\$ 11,056	\$ 13,322	\$ 7,132	\$ 34,661	\$ 219	\$ -	\$ 6,045	\$ 1,232	\$ 6,059	\$ 19,229	\$ 6,471	\$ 5,535	\$ 4,271	\$ 4,831	\$ 195	\$ 158,557		
2018/19 Hourly Rate(including benefits)	\$ 38.82	\$ 39.77	\$ 45.68	\$ 29.34	\$ 24.71	\$ 39.77	\$ 36.09	\$ 36.09	\$ 36.09	\$ 39.77	\$ 39.52	\$ 39.77	\$ 39.77	\$ 36.09	\$ 27.90	\$ 25.43	\$ 36.09			
Forecast Hours for 2018/19	312.9	595.5	312.0	463.7	297.8	562.0	6.2	-	1,013.5	31.6	156.4	351.5	125.0	156.4	156.4	201.7	5.5	4,748.1	316	
Forecast for 2018/19	\$ 12,147	\$ 23,683	\$ 14,252	\$ 13,605	\$ 7,359	\$ 22,351	\$ 224	\$ -	\$ 36,577	\$ 1,257	\$ 6,181	\$ 13,979	\$ 4,971	\$ 5,644	\$ 4,364	\$ 5,129	\$ 198	\$ 171,921		

	Hours	\$\$		
Forecast (2017/18)	4,432	\$ 158,600	wages	\$ 133,324
			benefits	16% \$ 25,376
Budget Estimate for 2018/19		\$ 172,000	wages	\$ 144,480
			benefits	16% \$ 27,520

Forecast Hours for 2018/19 - Assuming Millwrights, Industrial Electricians and Treatment Plant Operator hours are back to 2016/17 level, instead of the below normal forecast hours for 2017/18, and assuming Supervisor throughout the year.

Number of days to December 23, 2017 266

**Regional Sewer
Proposed 2018/19 Capital Program**

Project	Carryover from 2017/18	Proposed 2018/19	Total	Funding Sources		
				Grants	LTD	Reserves
Regional STP Headworks		350,000	350,000			350,000
Regional Sewerlines	-	150,000	150,000			150,000
Regional STP Aeration (design phase)		50,000	50,000			50,000
Total	\$ -	\$ 550,000	\$ 550,000	\$ -	\$ -	\$ 550,000

2017/18 Projects

Project	Approved Budget	estimated expended @ March 31/18	Under (Over) Budget	Funding Sources			Notes
				Grants	LTD	Reserves	
Sewer line alignment - Kentville Bridge	70,000	70,000	-			70,000	Complete
Sewer meters	30,000	4,000	26,000			4,000	Complete
Regional Forcemain	750,000	-	750,000		-	-	Delayed to 2020/21
Regional STP Aeration	100,000	87,317	12,683			87,317	Complete
Regional sludge conveyor	27,572	14,606	12,966			\$ 14,606	Complete
Total	\$ 977,572	\$ 175,923	\$ 801,649	\$ -	\$ -	\$ 175,923	

2017/18 projects which have not been debentured \$ -
 estimated annual debt service cost \$ -
 budgeted \$ -



The Municipality of the County of Kings
 CAPITAL PROJECT JUSTIFICATION SHEET
 2018/19 to 2022/23 CAPITAL FORECAST

NEW PROJECT

CARRY OVER PROJECT

PROJECT Regional STP Headworks

GL ACCOUNT # 23-3-354-131

DEPARTMENT	Engineering & Public Works	PROJECT #	18-4401	PRIORITY	High	EXPECTED OUTCOMES:	QUANTITATIVE:	
LOCATION	New Minas	NEW OR REPLACEMENT ASSET	Replacement	ASSET CATEGORY	STP equip & headwks			GAS TAX: CW (cleaner water)
		LEVEL OF SERVICE IMPACT	Maintain level of service	EXPECTED LIFE	20 years			ICSP: Infrastructure assessment/replacement

DESCRIPTION In 2018/19 we will replace the ventilation ductwork in the Screen building with non-metallic ducts and upgrade the exhaust fans. Scrubbers may also be required. We will move the water pumps from the hot water wash away from the electrical room and replace the waterlines throughout the building.

NEED FOR PROJECT The existing ventilation ductwork is made of stainless steel and is already corroding due to the high levels of hydrogen sulfide in the air from the drum screens. Replacing the ductwork with non-metallic material will improve the corrosion issue. The upgraded fans will increase the flow of fresh air into the building and the exhausting of the toxic gases. Scrubbers may also be required to clean the exhaust. The waterlines have mineral buildup and corrosion. Having waterlines near the electrical panels is a safety hazard and that is required to be remedied.

CARRYOVER PROJECT STATUS n/a

FUNDING SOURCE DETAILS 23-4-461-000 Regional Depreciation Reserve \$350,000

FIVE YEAR PRIORITY CRITERIA

1	PROVIDE EFFICIENT AND EFFECTIVE SERVICE DELIVERY TO OUR RESIDENTS AND BUSINESSES	<input type="checkbox"/>
2	ADDRESS INFRASTRUCTURE DEFICIT AND AGING WATER AND SEWER INFRASTRUCTURE	<input checked="" type="checkbox"/>
3	SECURE KINGS COUNTY ECONOMIC FUTURE, WITH FOCUS ON ECONOMIC DEVELOPMENT STRATEGY AND INFRASTRUCTURE	<input type="checkbox"/>
4	UTILIZE GREEN TECHNOLOGIES AND MAXIMIZE ENERGY EFFICIENCIES TO ENCOURAGE ENERGY CONSERVATION IN MUNICIPAL & VILLAGE INFRASTRUCTURE	<input type="checkbox"/>
5	FOSTER AN ENVIRONMENT WHICH INCREASES OPPORTUNITIES AND INVESTMENTS IN ACTIVE TRANSPORTATION NETWORKS	<input type="checkbox"/>
6	FURTHER ENCOURAGE ACCESSIBLE AND INCLUSIVE PROGRAMS	<input type="checkbox"/>
7	IMPROVE ROAD NETWORK AND INFRASTRUCTURE	<input type="checkbox"/>

OTHER CONCERNS

1	MANDATED BY LAW	<input type="checkbox"/>
2	REPLACING END OF LIFE ASSET	<input checked="" type="checkbox"/>
3	REQUIRED FOR HEALTH & SAFETY	<input checked="" type="checkbox"/>
4	ENVIRONMENTAL IMPACT - PREVENTION OR MITIGATION	<input checked="" type="checkbox"/>
5	SIGNIFICANT IMPACT IF DEFERRED	<input checked="" type="checkbox"/>
6	IMPACTS OTHER GOVERNMENTS	<input checked="" type="checkbox"/>
7	PREVIOUSLY COMMITTED	<input type="checkbox"/>
8	GAS TAX OUTCOME - PROVIDES CLEANER WATER OR AIR - REDUCES GREENHOUSE GAS EMISSIONS	<input checked="" type="checkbox"/>
9	SUPPORTS ICSP (INTEGRATED COMMUNITY SUSTAINABILITY PLAN)	<input checked="" type="checkbox"/>

ESTIMATED CAPITAL COST	CARRYOVER PROJECTS			2018/19	2019/20	2020/21	2021/22	2022/23	Total
	Actual Cost to 1/31/18	Budget Remaining	Prior Year Budget Total						
Engineering/consulting	-	-	-	50,000	-	-	-	-	50,000
Equipment	-	-	-	-	-	-	-	-	-
Construction	-	-	-	300,000	-	-	-	-	300,000
TOTAL	-	-	-	350,000	-	-	-	-	350,000
PROPOSED FINANCING	CARRYOVER PROJECTS			2018/19	2019/20	2020/21	2021/22	2022/23	Total
	Actual Costs to 1/31/18	Budget Remaining	Prior Year Budget						
From Operating	-	-	-	-	-	-	-	-	-
Fed/Prov Grants	-	-	-	-	-	-	-	-	-
Reserves - Capital	-	-	-	350,000	-	-	-	-	350,000
Reserves - Operating	-	-	-	-	-	-	-	-	-
Debt	-	-	-	-	-	-	-	-	-
Other Revenue	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	350,000	-	-	-	-	350,000

ESTIMATED IMPACT ON OPERATING BUDGET FOR MAINTENANCE AND OPERATIONS

	1st Year	2nd Year
LABOUR		
PURCHASED MATERIALS		
PURCHASED SERVICES		
OTHER		
TOTAL OPERATING COST	-	-
FINANCING COST		
DEPRECIATION	17,500	17,500
TOTAL COST	17,500	17,500
REVENUE		
NET COST	17,500	17,500



The Municipality of the County of Kings
CAPITAL PROJECT JUSTIFICATION SHEET
 2018/19 to 2022/23 CAPITAL FORECAST

NEW PROJECT

CARRY OVER PROJECT

PROJECT **Regional Sewerlines**

GL ACCOUNT # 23-3-354-125

DEPARTMENT	Engineering & Public Works	PROJECT #	14-4401	PRIORITY	High	EXPECTED OUTCOMES:	QUANTITATIVE: # meters	
LOCATION	Kentville/New Minas	NEW OR REPLACEMENT ASSET	Replacement	ASSET CATEGORY	Sewer lines			GAS TAX: CW (cleaner water)
DISTRICT	8	LEVEL OF SERVICE IMPACT	Maintain level of service	EXPECTED LIFE	40 years			ICSP: Infrastructure assessment/replacement

DESCRIPTION	In 2018/19 we will replace approximately 70m of existing pipe from River St to east side of Cornwallis St in Kentville. In 2019/20 we will design and in 2020/21 replace 900m each of 8" and 18" forcemain running east from the Curling Club to the Kentville Research Station. In 2021/22 will replace the 500m of 18" from RG5 east to the Curling Club and in 2022/23 replace 150m each of 8" and 18" forcemain from the Regional STP west to the section of forcemain installed in 2011. In future years will replace other segments as needs are identified.
NEED FOR PROJECT	This section of sewer was uncovered during the recent infrastructure diversion project in conjunction with the new bridge. The pipe is either terra cotta or unreinforced concrete and may date back to the 1930's. The top of one section was compromised and the rest of the exposed pipe heavily cracked. There is concern that that the bridge construction project may compromise the whole pipe. The pipe conveys a substantial amount of sewage daily and it would be better to plan for replacement rather than emergency repair, especially with new asphalt planned for the intersection. With respect to the forcemain projects for future years, the pipes were installed in 1979 and are 39 years old. Most of the pipe is ductile iron and subject to corrosion. Major sewer breaks have occurred in these lines since 2013/14. These are the most critical segments of forcemain in the Municipality as it is the final segment carrying the sewage flow from Coldbrook, Meadowview, and Kentville, including the industrial park, into the Regional STP.
CARRYOVER PROJECT STATUS	The replacement of pipe from the curling club to the research station was budgeted for the 2017/18 fiscal year. There were delays in preparing the design and survey work required. During that time, it became apparent that the Regional aeration project and headworks were more urgent. Accordingly, this project has been deferred while aeration issues are addressed. The 2017/18 budget will not carry over. In 2014/15 and 2015/16 we replaced 0.8km of 8" and 18" pipes from the Kentville Research Station to a point east of the Cornwallis River Crossing. In 2011 we replaced from that point roughly 240m in an easterly direction to 150m short of the Regional Sewage Treatment Plant
FUNDING SOURCE DETAILS	23-4-461-000 Regional Sewer Depreciation Reserve \$150,000

FIVE YEAR PRIORITY CRITERIA		
1	PROVIDE EFFICIENT AND EFFECTIVE SERVICE DELIVERY TO OUR RESIDENTS AND BUSINESSES	<input checked="" type="checkbox"/>
2	ADDRESS INFRASTRUCTURE DEFICIT AND AGING WATER AND SEWER INFRASTRUCTURE	<input checked="" type="checkbox"/>
3	SECURE KINGS COUNTY ECONOMIC FUTURE, WITH FOCUS ON ECONOMIC DEVELOPMENT STRATEGY AND INFRASTRUCTURE	<input type="checkbox"/>
4	UTILIZE GREEN TECHNOLOGIES AND MAXIMIZE ENERGY EFFICIENCIES TO ENCOURAGE ENERGY CONSERVATION IN MUNICIPAL & VILLAGE INFRASTRUCTURE	<input type="checkbox"/>
5	FOSTER AN ENVIRONMENT WHICH INCREASES OPPORTUNITIES AND INVESTMENTS IN ACTIVE TRANSPORTATION NETWORKS	<input type="checkbox"/>
6	FURTHER ENCOURAGE ACCESSIBLE AND INCLUSIVE PROGRAMS	<input type="checkbox"/>
7	IMPROVE ROAD NETWORK AND INFRASTRUCTURE	<input type="checkbox"/>

OTHER CONCERNS	
1	MANDATED BY LAW <input type="checkbox"/>
2	REPLACING END OF LIFE ASSET <input checked="" type="checkbox"/>
3	REQUIRED FOR HEALTH & SAFETY <input checked="" type="checkbox"/>
4	ENVIRONMENTAL IMPACT - PREVENTION OR MITIGATION <input checked="" type="checkbox"/>
5	SIGNIFICANT IMPACT IF DEFERRED <input checked="" type="checkbox"/>
6	IMPACTS OTHER GOVERNMENTS <input checked="" type="checkbox"/>
7	PREVIOUSLY COMMITTED <input type="checkbox"/>
8	GAS TAX OUTCOME - PROVIDES CLEANER WATER OR AIR - REDUCES GREENHOUSE GAS EMISSIONS <input checked="" type="checkbox"/>
9	SUPPORTS ICSP (INTEGRATED COMMUNITY SUSTAINABILITY PLAN) <input checked="" type="checkbox"/>

ESTIMATED CAPITAL COST	CARRYOVER PROJECTS			2018/19	2019/20	2020/21	2021/22	2022/23	Total
	Actual Cost to 1/31/18	Budget Remaining	Prior Year Budget Total						
Engineering/consulting	-	75,000	75,000	-	50,000	-	40,000	20,000	110,000
Equipment	-	-	-	-	-	-	-	-	-
Construction	-	675,000	675,000	150,000	-	750,000	360,000	180,000	1,440,000
TOTAL	-	750,000	750,000	150,000	50,000	750,000	400,000	200,000	1,550,000
PROPOSED FINANCING	Actual Costs to 1/31/18	Budget Remaining	Prior Year Budget Total	2018/19	2019/20	2020/21	2021/22	2022/23	Total
From Operating	-	-	-	-	-	-	-	-	-
Fed/Prov Grants	-	-	-	-	-	-	-	-	-
Reserves - Capital	-	300,000	300,000	150,000	50,000	300,000	300,000	200,000	1,000,000
Reserves - Operating	-	-	-	-	-	-	-	-	-
Debt	-	450,000	450,000	-	-	450,000	100,000	-	550,000
Other Revenue	-	-	-	-	-	-	-	-	-
TOTAL	-	750,000	750,000	150,000	50,000	750,000	400,000	200,000	1,550,000

ESTIMATED IMPACT ON OPERATING BUDGET FOR MAINTENANCE AND OPERATIONS		
	1st Year	2nd Year
LABOUR		
PURCHASED MATERIALS		
PURCHASED SERVICES		
OTHER		
TOTAL OPERATING COST	-	-
FINANCING COST		
DEPRECIATION	3,750	5,000
TOTAL COST	3,750	5,000
REVENUE		
NET COST	3,750	5,000



The Municipality of the County of Kings
 CAPITAL PROJECT JUSTIFICATION SHEET
 2018/19 to 2022/23 CAPITAL FORECAST

NEW PROJECT

CARRY OVER PROJECT

PROJECT Regional STP Aeration

GL ACCOUNT # 23-3-354-130

DEPARTMENT	Engineering & Public Works	PROJECT #	17-4401	PRIORITY	Medium	EXPECTED OUTCOMES:	QUANTITATIVE: #	
LOCATION	New Minas	NEW OR REPLACEMENT ASSET	Replacement	ASSET CATEGORY	STP lagoons			GAS TAX: CW (cleaner water)
DISTRICT	8	LEVEL OF SERVICE IMPACT	Maintain level of service	EXPECTED LIFE	40 years			

DESCRIPTION	In 2018/19 we will commence the design work related to the aeration of Cells 1 and 2. In 2019/20 we will desludge Cell 1 and replace the diffusers and related aeration equipment in Cells 1 and 2.
NEED FOR PROJECT	The existing system is inefficient and is not transferring fine bubbles of oxygen into the lagoon, wasting air and electricity. The system does not provide sufficient mixing of oxygen for long enough period of time, for the bacteria to digest the organics in the lagoon. The \$1m is a theoretical number at this point. Once the study is completed this year, we will then be able to determine an accurate budget for 2019/20. The existing system was installed around 1994 after the lagoon was desludged and is past the end of its expected useful life.
CARRYOVER PROJECT STATUS	In 2017/18 we replaced the end of life blowers for Lagoon Cells 3, 4 and 5 with new energy efficient blowers. There is no project carryover
FUNDING SOURCE DETAILS	23-4-461-000 Regional Depreciation Reserve \$50,000

FIVE YEAR PRIORITY CRITERIA		
1	PROVIDE EFFICIENT AND EFFECTIVE SERVICE DELIVERY TO OUR RESIDENTS AND BUSINESSES	<input type="checkbox"/>
2	ADDRESS INFRASTRUCTURE DEFICIT AND AGING WATER AND SEWER INFRASTRUCTURE	<input checked="" type="checkbox"/>
3	SECURE KINGS COUNTY ECONOMIC FUTURE, WITH FOCUS ON ECONOMIC DEVELOPMENT STRATEGY AND INFRASTRUCTURE	<input type="checkbox"/>
4	UTILIZE GREEN TECHNOLOGIES AND MAXIMIZE ENERGY EFFICIENCIES TO ENCOURAGE ENERGY CONSERVATION IN MUNICIPAL & VILLAGE INFRASTRUCTURE	<input type="checkbox"/>
5	FOSTER AN ENVIRONMENT WHICH INCREASES OPPORTUNITIES AND INVESTMENTS IN ACTIVE TRANSPORTATION NETWORKS	<input type="checkbox"/>
6	FURTHER ENCOURAGE ACCESSIBLE AND INCLUSIVE PROGRAMS	<input type="checkbox"/>
7	IMPROVE ROAD NETWORK AND INFRASTRUCTURE	<input type="checkbox"/>

OTHER CONCERNS	
1 MANDATED BY LAW	<input type="checkbox"/>
2 REPLACING END OF LIFE ASSET	<input checked="" type="checkbox"/>
3 REQUIRED FOR HEALTH & SAFETY	<input checked="" type="checkbox"/>
4 ENVIRONMENTAL IMPACT - PREVENTION OR MITIGATION	<input checked="" type="checkbox"/>
5 SIGNIFICANT IMPACT IF DEFERRED	<input checked="" type="checkbox"/>
6 IMPACTS OTHER GOVERNMENTS	<input checked="" type="checkbox"/>
7 PREVIOUSLY COMMITTED	<input type="checkbox"/>
8 GAS TAX OUTCOME - PROVIDES CLEANER WATER OR AIR - REDUCES GREENHOUSE GAS EMISSIONS	<input checked="" type="checkbox"/>
9 SUPPORTS ICSP (INTEGRATED COMMUNITY SUSTAINABILITY PLAN)	<input checked="" type="checkbox"/>

ESTIMATED CAPITAL COST	CARRYOVER PROJECTS			2018/19	2019/20	2020/21	2021/22	2022/23	Total
	Actual Cost to 1/31/18	Budget Remaining	Prior Year Budget Total						
Engineering/consulting	-	-	-	50,000	100,000	-	-	-	150,000
Equipment	87,317	12,683	100,000	-	200,000	-	-	-	200,000
Construction	-	-	-	-	700,000	-	-	-	700,000
TOTAL	87,317	12,683	100,000	50,000	1,000,000	-	-	-	1,050,000
PROPOSED FINANCING	Actual Costs to 1/31/18	Budget Remaining	Prior Year Budget	2018/19	2019/20	2020/21	2021/22	2022/23	Total
From Operating	-	-	-	-	-	-	-	-	-
Fed/Prov Grants	-	-	-	-	-	-	-	-	-
Reserves - Capital	87,317	12,683	100,000	50,000	250,000	-	-	-	300,000
Reserves - Operating	-	-	-	-	750,000	-	-	-	750,000
Debt	-	-	-	-	-	-	-	-	-
Other Revenue	-	-	-	-	-	-	-	-	-
TOTAL	87,317	12,683	100,000	50,000	1,000,000	-	-	-	1,050,000

ESTIMATED IMPACT ON OPERATING BUDGET FOR MAINTENANCE AND OPERATIONS	1st Year		2nd Year	
	LABOUR	PURCHASED MATERIALS	PURCHASED SERVICES	OTHER
TOTAL OPERATING COST	-	-	-	-
FINANCING COST	-	-	97,500	-
DEPRECIATION	1,250	26,250	-	-
TOTAL COST	1,250	123,750	-	-
REVENUE	-	-	-	-
NET COST	1,250	123,750	-	-

5 Year Capital Forecast, Long-Term Debt & Depreciation Reserve							
		3/31/18	3/31/19	3/31/20	3/31/21	3/31/22	3/31/23
Project							
Sewer lines - Kentville Bridge		70,000					
Sewer meters		5,000					
Sludge Conveyor		14,606					
Regional Headworks		-	350,000				
Regional Sewerlines		-	150,000	50,000	750,000	400,000	200,000
Regional STP Aeration		87,317	50,000	1,000,000			
Total		176,923	550,000	1,050,000	750,000	400,000	200,000
Capital Project Funding							
Capital Reserves		176,923	550,000	300,000	300,000	400,000	200,000
Long Term Debt		-	-	750,000	450,000		
		176,923	550,000	1,050,000	750,000	400,000	200,000
Long Term Debt & Forecast							
	Last pmt						
MFC 29-A-1 Forcemain Replacement	6/01/19	49,000	24,500	-			
MFC 31 A-1 Headwork Building and RGT Disinfection Upgrades	11/09/21	432,000	324,000	216,000	108,000	-	-
MFC 32-B-1 Blowers	11/09/22	46,500	37,200	27,900	18,600	9,300	-
MFC 33-B-1 (RG6 & RG7)	11/15/23	276,000	230,000	184,000	138,000	92,000	46,000
MFC 36-A-1 Forcemain	5/16/26	225,000	200,000	175,000	150,000	125,000	100,000
Total Loan Balances before new projects		1,028,500	815,700	602,900	414,600	226,300	146,000
Projects not yet Debentured							
Regional STP Aeration 2019/20 financed June 2020	6/01/30				750,000	675,000	600,000
Regional Forcemain 2020/21 financed June 2021	6/01/31					450,000	405,000
Total forecast Loan Balances		1,028,500	815,700	602,900	1,164,600	1,351,300	1,151,000
Depreciation Reserve Forecast							
Projected Opening Balance		515,805	605,482	378,855	408,362	457,172	367,072
Plus contribution to Reserve for depreciation at 1.75%		266,600	268,800	278,400	296,800	309,900	316,900
Plus additional contribution to Reserve due to debt savings			54,573	51,107	52,009	-	13,117
Less funding of Capital Projects		(176,923)	(550,000)	(300,000)	(300,000)	(400,000)	(200,000)
Projected Closing Balance		605,482	378,855	408,362	457,172	367,072	497,088
Impact of Steady Capital Charges							
Regional Sewer Technical Committee proposal Feb 9, 2017 to hold the total capital charges steady, such that any reductions in debt service would be contributed to the Capital Reserve							
Forecast Debt Service (Principal & Interest)							
			2018/19	2019/20	2020/21	2021/22	2022/23
MFC 29-A-1 Forcemain Replacement			26,270	25,099			
MFC 31 A-1 Headwork Building and RGT Disinfection Upgrades			122,426	119,202	115,685	111,937	
MFC 32-B-1 Blowers			10,610	10,383	10,136	9,873	9,594
MFC 33-B-1 (RG6 & RG7)			54,530	53,398	52,134	50,754	49,258
MFC 36-A-1 Forcemain			29,791	29,411	28,985	28,509	27,981
Debt service on existing debt			243,627	237,493	206,941	201,072	86,833
Projects not yet Debentured (assuming interest at 3%)							
Regional STP Aeration 2019/20 financed June 2020					11,250	97,500	97,500
Regional Forcemain 2020/21 financed June 2021						6,750	52,650
Estimated debt service			-	-	11,250	104,250	150,150
Total forecast debt service			243,627	237,493	218,191	305,322	236,983
2017/18 Total Budgeted Capital Charges							
Debt Service (Actual + forecast)		\$ 567,000					
1.75% Contribution to Capital Reserve			243,627	237,493	218,191	305,322	236,983
Additional contribution to Capital Reserve due to debt savings			268,800	278,400	296,800	309,900	316,900
			54,573	51,107	52,009	-	13,117
Total projected capital charges			567,000	567,000	567,000	615,222	567,000

**Regional Sewer
2018/19 Budget**

Partner Contributions - History

	Kentville	New Minas	Kings	Atlantic Poultry	PepsiCo (FritoLay)	Total
2004/05	418,200	324,100	100,800	83,900	85,500	1,012,500
2005/06	470,300	306,300	112,100	101,200	101,300	1,091,200
2006/07	492,800	229,400	109,400	123,500	118,400	1,073,500
2007/08	551,990	213,500	118,700	130,800	127,400	1,142,390
2008/09	539,000	220,600	128,900	162,500	148,800	1,199,800
2009/10	504,400	219,400	233,800	167,500	127,200	1,252,300
2010/11	537,300	229,100	133,500	187,300	145,300	1,232,500
2011/12	411,300	185,200	103,300	125,500	124,300	949,600
2012/13	548,400	263,200	147,100	159,300	177,600	1,295,600
2013/14	626,000	294,800	166,900	146,100	172,900	1,406,700
2014/15	676,800	304,800	225,270		201,800	1,408,670
2015/16	695,200	321,700	226,300		186,600	1,429,800
2016/17	767,300	310,000	180,700		152,100	1,410,100
2017/18	768,700	328,600	179,700		172,900	1,449,900
2018/19 (Proposed)	703,000	318,800	206,300		177,300	1,405,400
2018/19 % increase/(decrease)	-9%	-3%	15%		3%	-3%

Town of Kentville
2018/19 User Load Summary

Notes:

1. Capital and Operating portions of costs for collection based on 100% of Hydraulic Load.
2. Capital and Operating portions of costs for treatment based on 45% of Hydraulic Load and 55% of BOD Load.
3. Estimated Actual Loads are subject to Minimum Loads according to Agreements.
4. All monetary figures are in thousand of dollars.

Figures to determine invoices

CAPITAL			
Collection: Hydraulic Load (Imperial Gallons per Day(IGPD))			
	1,617	Kentville portion - IGPD	
	3,410	Total system - IGPD	
	47.4%		
\$	204.4	Capital and LTD figures relating to collection system	
\$	96.9		\$ 96.9
Treatment: Biological Oxygen Demand (BOD) - in pounds per day + Hydraulic Load			
	4,559	Kentville portion - BOD	1,617 Kentville portion - IGPD
	12,373	Total system - BOD	3,410 Total system - IGPD
	36.85%		47.42%
	55% (see note 2)		45% (See note 2)
	20.3%		21.3%
	20.3%		
	21.3%		
	41.6%		
\$	362.6	Capital and LTD figures relating to treatment	
\$	150.8		\$ 150.8
Operating			
Collection: Hydraulic Load (Imperial Gallons per Day (IGPD))			
	896	Kentville portion - estimated actual load - IGPD	
	1,623	Total system - estimated actual load - IGPD	
	55.2%		
\$	192.6	Operating figures relating to collection system	
\$	106.3		\$ 106.3
Treatment: Biological Oxygen Demand (BOD) - in pounds per day + Hydraulic Load			
	3,495	Kentville portion - BOD	896 Kentville portion - IGPD
	6,694	Total system - BOD	1,623 Total system - IGPD
	52.2%		55.2%
	55% (see note 2)		45% (See note 2)
	28.7%		24.8%
	28.7%		
	24.8%		
	53.6%		
\$	645.8	Operating figures relating to treatment system	
\$	345.8		\$ 345.8

Total - Kentville 2018/19 cost - Regional Sewer	\$ 699.8
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subtotal (from previous page) \$ 699.8

Adjustments - North Kentville - based on # of properties @ County sewer rate
 Invoice - Kentville to County (we bill separately for this)
 Invoice - County to Kentville (we get billed separately for this)

Adjustment - debt payments

In March 2009, the County issued \$245,000 worth of debenture financing for capital projects relating to the regional plant that have occurred over the last two years. The breakdown was as follows:

Amount (3 projects)	75,745	
	223,335	
	65,542	
subtotal	364,622	
Less: Gas Tax funding	(121,541)	Note: Although the County is only responsible for 11% of the Regional's Capital cost component, it contributed (reduced) the debenture amount by 33.3%, to the benefit of all the partners.
add: debt issue costs	1,823	
Total	244,904	

If the County had not contributed these funds, the total debenture amount would have been \$368,000.

Since the County has made this contribution up front, it does not have to pay any of the annual debt payments relating to this issue.

The Budgeted payment are \$32,382 of which \$3,500 was allocated to Kings, this amount was reallocated to the other partners.

The partners were given the option of providing funding up front in the same manner as Kings; none accepted.

Debt payment reallocation	\$ 3.2
Total	\$ 703.0

Village of New Minas
2018/19 User Load Summary

Notes:

1. Capital and Operating portions of costs for collection based on 100% of Hydraulic Load.
2. Capital and Operating portions of costs for treatment based on 45% of Hydraulic Load and 55% of BOD Load
3. Estimated Actual Loads are subject to Minimum Loads according to Agreements.
4. All monetary figures are in thousand of dollars.

Figures to determine invoices

CAPITAL	
Collection: Hydraulic Load (Imperial Gallons per Day(IGPD))	
931	New Minas portion - IGPD
<u>3,410</u>	Total system - IGPD
27.3%	
\$ 204.4	Capital and LTD figures relating to collection system
<u>\$ 55.8</u>	\$ 55.8

Treatment: Biological Oxygen Demand (BOD) - in pounds per day + Hydraulic Load			
2,110	New Minas portion - BOD	931	New Minas portion - IGPD
<u>12,373</u>	Total system - BOD	<u>3,410</u>	Total system - IGPD
17.1%		27.3%	
55% (see note 2)		45% (See note 2)	
<u>9.4%</u>		<u>12.3%</u>	
9.4%			
<u>12.3%</u>			
21.7%			
\$ 362.6	Capital and LTD figures relating to treatment		
<u>\$ 78.6</u>		\$ 78.6	

Operating	
Collection: Hydraulic Load (Imperial Gallons per Day (IGPD))	
405	New Minas portion - estimated actual load - IGPD
<u>1,623</u>	Total system - estimated actual load - IGPD
25.0%	
\$ 192.6	Operating figures relating to collection system
<u>\$ 48.1</u>	\$ 48.1

Treatment: Biological Oxygen Demand (BOD) - in pounds per day + Hydraulic Load			
1,169	New Minas portion - BOD	405	New Minas portion - IGPD
<u>6,694</u>	Total system - BOD	<u>1,623</u>	Total system - IGPD
17.5%		25.0%	
55% (see note 2)		45% (See note 2)	
<u>9.6%</u>		<u>11.2%</u>	
9.6%			
<u>11.2%</u>			
20.8%			
\$ 645.8	Operating figures relating to treatment system		
<u>\$ 134.6</u>		\$ 134.6	

Total - New Minas 2018/19 cost - Regional Sewer	\$ 317.1
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subtotal (from previous page) \$ 317.1

Adjustments - Canaan Heights - We get billed separately for these

Adjustment - debt payments

In March 2009, the County issued \$245,000 worth of debenture financing for capital projects relating to the regional plant that have occurred over the last two years. The breakdown was as follows:

Amount (3 projects)	75,745	
	<u>223,335</u>	
	65,542	
subtotal	364,622	
Less: Gas Tax funding	(121,541)	Note: Although the County is only responsible for 11% of the Regional's Capital cost component, it contributed
add: debt issue costs	<u>1,823</u>	(reduced) the debenture amount by 33.3%, to the benefit of all the partners.
Total	<u><u>244,904</u></u>	

If the County had not contributed these funds, the total debenture amount would have been \$368,000.

Since the County has made this contribution up front, it does not have to pay any of the annual debt payments

The Budgeted payments for 2010/11 are \$32,382 of which \$3,500 was allocated to Kings, this amount was reallocated to the other partners.

The partners were given the option of providing funding up front in the same manner as Kings; none accepted.

Debt payment reallocation	\$ 1.7
Total	<u>\$ 318.8</u>

Pepsico Canada
2018/19 User Load Summary

Notes:

1. Capital and Operating portions of costs for collection based on 100% of Hydraulic Load.
2. Capital and Operating portions of costs for treatment based on 45% of Hydraulic Load and 55% of BOD Lc
3. Estimated Actual Loads are subject to Minimum Loads according to Agreements.
4. All monetary figures are in thousand of dollars.

Figures to determine invoices

CAPITAL

Collection: Hydraulic Load (Imperial Gallons per Day(IGPD))

130	Pepsico Canada portion - IGPD		
<u>3,410</u>	Total system - IGPD		
	3.8%		
\$ 204.4	Capital and LTD figures relating to collection system		
<u>\$ 7.8</u>		\$	7.8

Treatment: Biological Oxygen Demand (BOD) - in pounds per day + Hydraulic Load

3,000	Pepsico Canada portion - BOD	130	Pepsico Canada portion - IGPD
<u>12,373</u>	Total system - BOD	<u>3,410</u>	Total system - IGPD
	24.2%		3.8%
	55% (see note 2)		45% (See note 2)
<u>13.3%</u>		<u>1.7%</u>	
	13.3%		
	1.7%		
	15.1%		
\$ 362.6	Capital and LTD figures relating to treatment		
<u>\$ 54.6</u>		\$	54.6

Operating

Collection: Hydraulic Load (Imperial Gallons per Day (IGPD))

107	Pepsico Canada portion - estimated actual load - IGPD		
<u>1,623</u>	Total system - estimated actual load - IGPD		
	6.6%		
\$ 192.6	Operating figures relating to collection system		
<u>\$ 12.7</u>		\$	12.7

Treatment: Biological Oxygen Demand (BOD) - in pounds per day + Hydraulic Load

1,550	Pepsico Canada portion - BOD	107	Pepsico Canada portion - IGPD
<u>6,694</u>	Total system - BOD	<u>1,623</u>	Total system - IGPD
	23.2%		6.6%
	55% (see note 2)		45% (See note 2)
<u>12.7%</u>		<u>3.0%</u>	
	12.7%		
	3.0%		
	15.7%		
\$ 645.8	Operating figures relating to treatment system		
<u>\$ 101.4</u>		\$	101.4

Total - Pepsico Canada 2018/19 cost - Regional Sewer \$ 176.5

subtotal (from previous page) \$ 176.5

Adjustment - debt payments

In March 2009, the County issued \$245,000 worth of debenture financing for capital projects relating to the regional plant that have occurred over the last two years. The breakdown was as follows:

Amount (3 projects)	75,745
	223,335
	<u>65,542</u>
subtotal	364,622
Less: Gas Tax funding	(121,541)
add: debt issue costs	1,823
Total	<u>244,904</u>

Note: Although the County is only responsible for 11% of the Regional's Capital cost component, it contributed (reduced) the debenture amount by 33.3%, to the benefit of all the partners.

If the County had not contributed these funds, the total debenture amount would have been \$368,000.

Since the County has made this contribution up front, it does not have to pay any of the annual debt payments

The Budgeted payments for 2010/11 are \$32,382 of which \$3,500 was allocated to Kings, this amount was reallocated to the other partners.

The partners were given the option of providing funding up front in the same manner as Kings; none accepted.

Debt payment reallocation \$ 0.8

Total \$ 177.3

County of Kings
2018/19 User Load Summary

Notes:

1. Capital and Operating portions of costs for collection based on 100% of Hydraulic Load.
2. Capital and Operating portions of costs for treatment based on 45% of Hydraulic Load and 55% of BOD Load.
3. Estimated Actual Loads are subject to Minimum Loads according to Agreements.
4. All monetary figures are in thousand of dollars.
5. The Municipality has temporarily assumed financial responsibility for ACA's minimum load charges

Figures to determine invoices

CAPITAL	
Collection: Hydraulic Load (Imperial Gallons per Day(IGPD))	
732 COK portion - IGPD	
<u>3,410</u> Total system - IGPD	
21.5%	
\$ 204.4 Capital and LTD figures relating to collection system	
<u>\$ 43.9</u>	\$ 43.9

Treatment: Biological Oxygen Demand (BOD) - in pounds per day + Hydraulic Load	
2,704 COK portion - BOD	732 COK portion - IGPD
<u>12,373</u> Total system - BOD	<u>3,410</u> Total system - IGPD
21.9%	21.5%
55% (see note 2)	45% (See note 2)
<u>12.0%</u>	<u>9.7%</u>
12.0%	
<u>9.7%</u>	
21.7%	
\$ 362.6 Capital and LTD figures relating to treatment	
<u>\$ 78.6</u>	\$ 78.6

Operating	
Collection: Hydraulic Load (Imperial Gallons per Day (IGPD))	
215 COK portion - estimated actual load - IGPD	
<u>1,623</u> Total system - estimated actual load - IGPD	
13.2%	
\$ 192.6 Operating figures relating to collection system	
<u>\$ 25.5</u>	\$ 25.5

Treatment: Biological Oxygen Demand (BOD) - in pounds per day + Hydraulic Load	
480 COK - BOD	215 COK - IGPD
<u>6,694</u> Total system - BOD	<u>1,623</u> Total system - IGPD
7.2%	13.2%
55% (see note 2)	45% (See note 2)
<u>3.9%</u>	<u>6.0%</u>
3.9%	
<u>6.0%</u>	
9.9%	
\$ 645.8 Operating figures relating to treatment system	
<u>\$ 64.0</u>	\$ 64.0

Total - COK 2018/19 cost - Regional Sewer	\$ 212.0
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subtotal (from previous page) \$ 212.0

Adjustments - North Kentville - based on # of properties @ County sewer rate
 Invoice - Kentville to County (we bill separately for this)
 Invoice - County to Kentville (we get billed separately for this)

Adjustments - Canaan Heights (we get billed separately for this)

Adjustment - debt payments

In March 2009, the County issued \$245,000 worth of debenture financing for capital projects relating to the regional plant that have occurred over the last two years. The breakdown was as follows:

Amount (3 projects)	75,745
	223,335
	<u>65,542</u>
subtotal	364,622
Less: Gas Tax funding	(121,541)
add: debt issue costs	<u>1,823</u>
Total	<u>244,904</u>

Note: Although the County is only responsible for 11% of the Regional's Capital cost component, it contributed (reduced) the debenture amount by 33.3%, to the benefit of all the partners.

If the County had not contributed these funds, the total debenture amount would have been \$368,000.

Since the County has made this contribution up front, it does not have to pay any of the annual debt payments

The Budgeted payments for 2012/13 are \$32,382 of which \$3,500 was allocated to Kings, this amount was reallocated to the other partners.

The partners were given the option of providing funding up front in the same manner as Kings; none accepted.

Debt payment reallocation \$ (5.7)

Total \$ 206.3