



MUNICIPALITY *of the*
COUNTY *of* **KINGS**

REGIONAL SEWER COMMITTEE

Thursday, March 13, 2025

10:00 a.m. Municipal Complex - Council Chambers

181 Coldbrook Village Park Drive, Coldbrook, NS

1. Roll Call, Welcome, Introductions
2. Approval of Agenda
3. Disclosure of Conflict-of-Interest Issues
4. Approval of Minutes
 - a. July 25, 2024
5. Business Arising from Minutes
6. Operations and Compliance Report
 - a. Regional Environmental Compliance Update
 - b. Regional Forcemain Rehabilitation Project Update
7. Financial Update
 - a. December 2024 Regional Sewer Variance Report
 - b. Regional Sewer 2025/26 Operating and Capital Budget
8. Partner Updates
9. Other Business

181 Coldbrook Village Park Drive Coldbrook, NS B4R 1B9

Phone: (902) 678-6141

Toll Free: 1-888-337-2999

www.countyofkings.ca

10. Next Meeting – suggested dates

- a. Thursday June 19th, 2025
- b. Thursday September 18th, 2025
- c. Thursday November 27th, 2025 or Thursday December 4th, 2025

11. Adjournment

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RSC July 25, 2024

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**THE MUNICIPALITY OF THE COUNTY OF KINGS
REGIONAL SEWER COMMITTEE
Thursday, January 16, 2025
MINUTES**

Meeting Date and Time **A meeting of the Regional Sewer Committee was held on Thursday, January 16, 2025, at 10:00 a.m. at the Municipal Complex in Coldbrook, Nova Scotia**

1. Roll Call

In attendance:

*Municipality of the
County of Kings:*

Tim Harding, Councillor (**Chair / voting member**)
Dave Corkum, Mayor
Brad Carrigan, Director of Engineering & Public Works
Jeremy Sharpe, Manager of Operations
Tyler Honeywood, Manager of Financial Reporting
Chris Ritchie (support for Tyler Honeywood)
Greg Barr, Director of Finance & IT
Stephanie Elliott, Recording Secretary

Town of Kentville:

Cate Savage, Councillor (**Vice Chair / voting member**)
Jeff Lawrence, CAO
Dave Bell, Director of EPW

Village of New Minas:

James Redmond, Commissioner (**voting member**)
Cory Palmer, Director of Public Works – New Minas
Tim Bouter, Clerk Treasurer / CAO

PepsiCo Foods Limited:

Rachel Hirtle - PepsiCo (**voting member**)

Regrets: None

**Meeting Called to
Order**

The Chair called the meeting to order at 10:00 am. Roll call was taken.

2. Vote for Vice Chair

Councillor Savage nominated herself to be Vice Chair. No additional nominations submitted; Councillor Savage accepted the uncontested position.

- 3. Approval of Agenda** Director of Finance requested to remove the Agenda Items under the Financial Update in order to provide a more formal presentation due to staffing changes.

On motion from the Chair, Councillor Harding and Councillor Savage to amend the agenda in order to postpone the Financial Updates from the Agenda.

Motion Carried.

On motion of Councillor Savage and Commissioner Redmond, that the January 16, 2025, agenda be approved as circulated.

Motion Carried.

- 4. Conflict of Interest** None

- 5. Approval of Minutes** **On motion of Commissioner Redmond and Councillor Savage, that the October 17, 2024, minutes be approved as circulated.**

Motion Carried.

- 6. Business Arising from Minutes** None

New Business

- Special Note** Jeff Lawrence arrived at 10:17hrs.

- 7. Operation and Compliance Reports** a. The Director of Engineering and Public Works presented an update on the Regional Environmental Compliance.

a. **Regional Environmental Compliance Update**

On motion of Vice Chair Councillor Savage and Commissioner Redmond, to accept the Regional Environmental Compliance report.

b. **Regional Forcemain Project Update**

Motion Carried.

b. The Director of Engineering and Public Works presented an update on the Regional Forcemain Rehabilitation Project.

On motion of Commissioner Redmond and Vice Chair Councillor Savage, to accept the Regional Forcemain Project update report.

Motion Carried.

7. Partner Updates None

8. Other Business None

9. Next Meeting Due to Budget Preparations, a special meeting will be convened to review a draft budget for Regional Sewer. Date to follow.

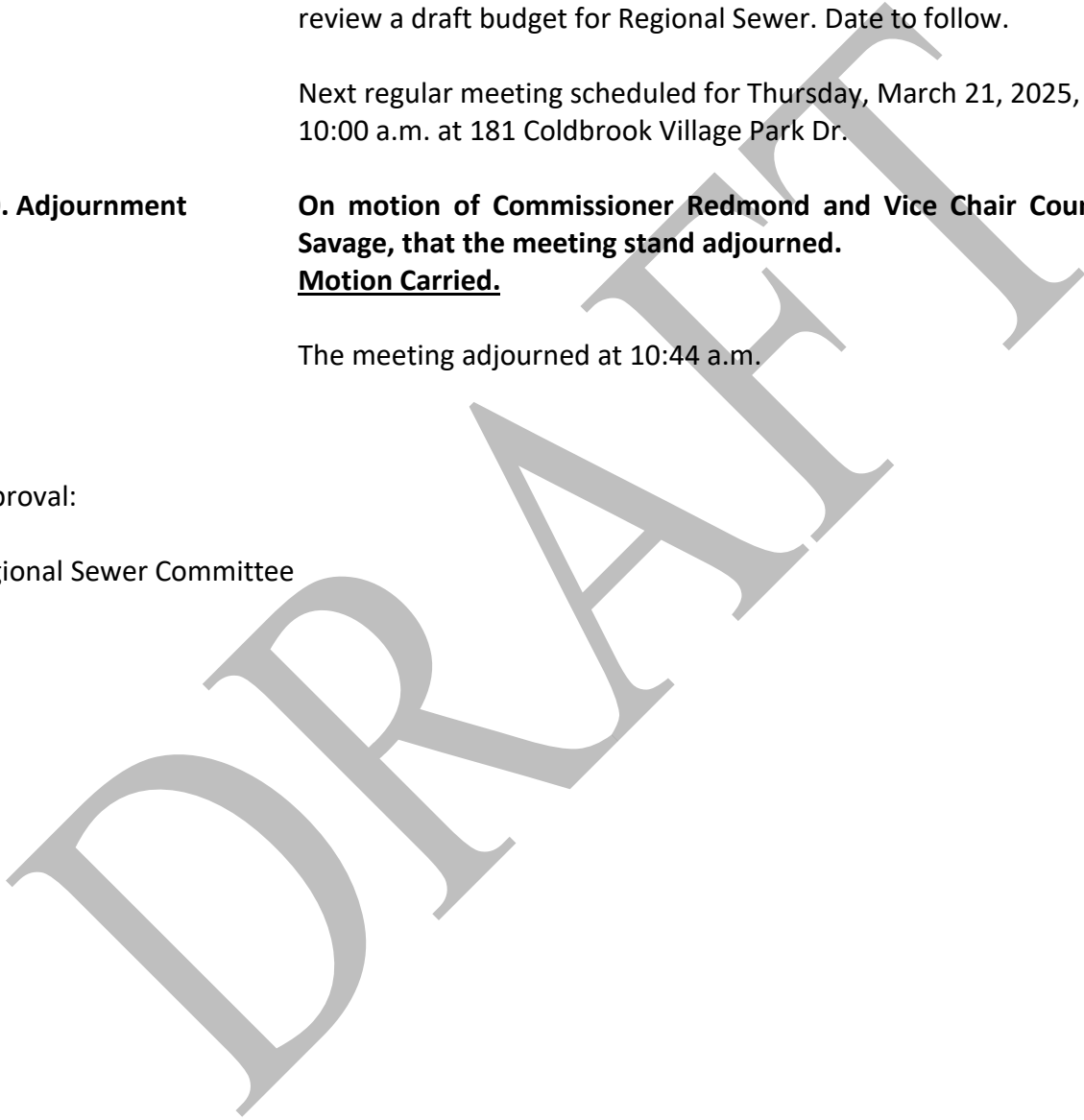
Next regular meeting scheduled for Thursday, March 21, 2025, at 10:00 a.m. at 181 Coldbrook Village Park Dr.

10. Adjournment **On motion of Commissioner Redmond and Vice Chair Councillor Savage, that the meeting stand adjourned.**
Motion Carried.

The meeting adjourned at 10:44 a.m.

Approval:

Regional Sewer Committee



TO Regional Sewer Committee
PREPARED BY Carme Telesford, Compliance Officer
MEETING DATE March 13, 2025
SUBJECT Regional Environmental Compliance Update

RECOMMENDATION

That the Regional Sewer Committee accept the Regional Environmental Compliance Update dated March 06, 2025, for information.

INTENT

To provide an update to the Regional Sewer Committee on the state of the Regional’s effluent compliance per its *Approval to Operate* for the year 2024.

DISCUSSION

This briefing relates to the Regional Wastewater Treatment Facility (WWTF) treated effluent compliance for the entirety of 2024.

Treated Effluent Compliance

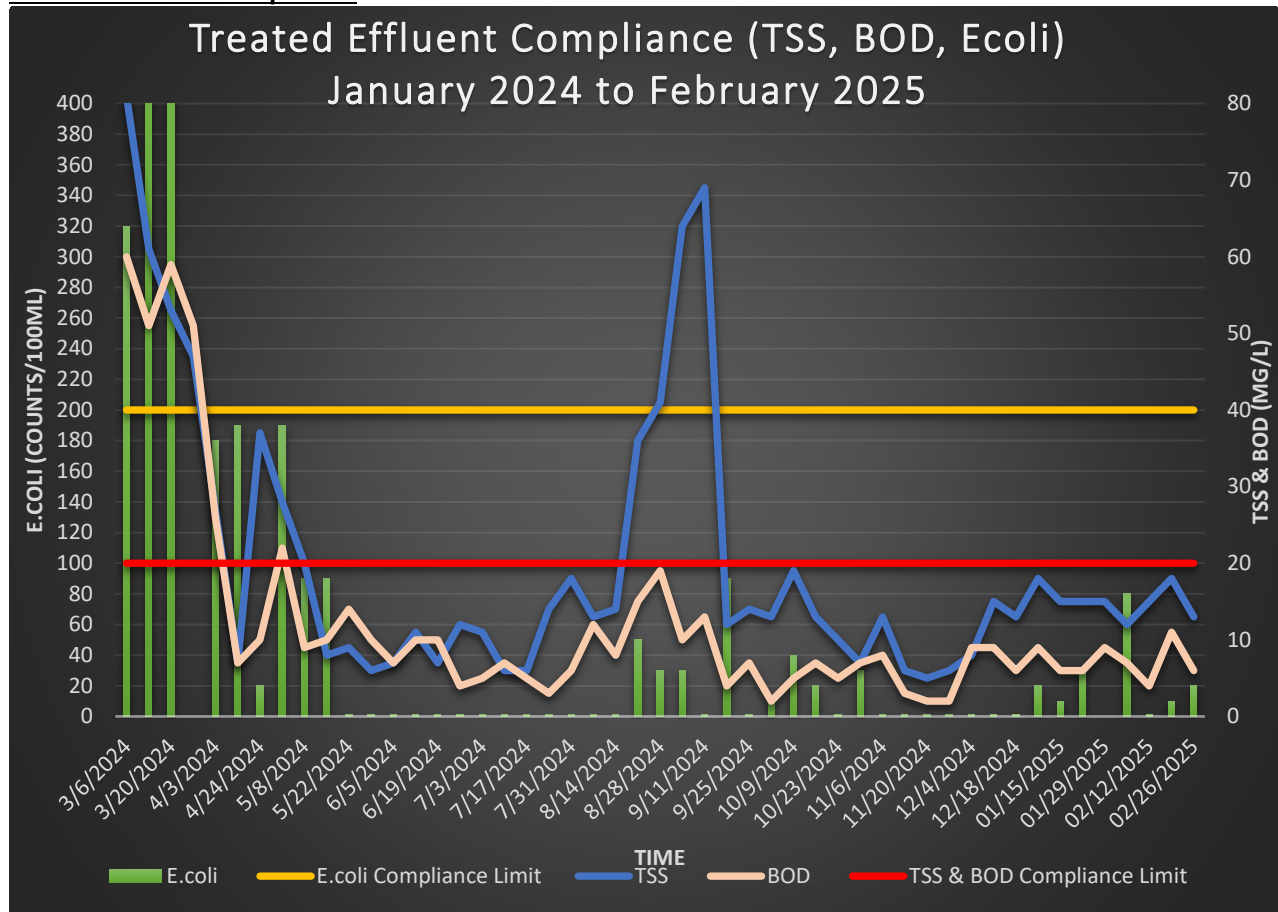


Figure 1: Treated Effluent Compliance (January 2024-Present)

The Regional WWTF was not in compliance with the treated effluent discharge criteria in Q1 for cBOD, TSS and e. coli, and TSS in Q3 as per its *Approval to Operate*.

The non-compliance in Q1 of 2024 can be directly attributed to the capital work upgrades which were being undertaken from May 2023 to March 2024, when all projects were completed and the WWTF was back to full/normal operations.

The non-compliance for TSS in Q3 is believed to be a result of algae growth and subsequent die-off. This theory is supported by the low BOD values, which do not track alongside the TSS as aggressively and through additional monitoring of ammonia which tracked very low levels.

Treated Effluent Compliance

Date	cBOD mg/L	TSS mg/L	e-coli 200 count/100 mL*	pH
1/3/2024	99	66	360	5.56
1/12/2024	74	65	1800	6.08
1/17/2024	113	58	500	5.73
1/24/2024	109	53	250	6.81
1/31/2024	72	55	180	6.75
2/7/2024	75	47	170	7.25
2/14/2024	103	42	100	7.16
2/21/2024	75	57	unavailable	7.11
2/28/2024	52	64	90	7.22
3/6/2024	60	81	320	7.16
3/13/2024	51	61	900	7.08
3/20/2024	59	53	700	7.24
3/27/2024	51	47	unavailable	7.38
Average	76	58	669	6.81

Table 1: 2024-Q1 Treated Effluent Compliance

Date	cBOD mg/L	TSS mg/L	e-coli 200 count/100 mL	pH
4/3/2024	26	27	180	7.34
4/10/2024	7	7	190	7.69
4/24/2024	10	37	20	7.55
5/1/2024	22	28	190	8.75
5/8/2024	9	20	90	7.85
5/15/2024	10	8	90	7.37
5/22/2024	14	9	0	7.33
5/29/2024	10	6	0	7.17
6/5/2024	7	7	0	7.19
6/12/2024	10	11	0	7.57
6/19/2024	10	7	0	7.39

6/26/2024	4	12	0	6.62
Average	12	15	10	7.50

Table 2: 2024-Q2 Treated Effluent Compliance

Date	cBOD mg/L	TSS mg/L	e-coli 200 count/100 mL	pH
7/3/2024	5	7	0	7.15
7/10/2024	7	6	0	7.00
7/17/2024	5	6	0	6.78
7/24/2024	3	14	0	7.46
7/31/2024	6	18	0	8.07
8/7/2024	12	13	0	7.26
8/14/2024	8	14	0	7.17
8/21/2024	15	36	50	7.06
8/28/2024	19	41	30	7.15
9/4/2024	10	64	30	7.14
9/11/2024	13	69	0	7.17
9/18/2024	4	12	90	7.32
9/25/2024	7	14	0	7.20
Average	9	24	3	7.23

Table 3: 2024-Q3 Treated Effluent Compliance

Date	cBOD mg/L	TSS mg/L	e-coli 200 count/100 mL	pH
10/2/2024	2	13	10	7.04
10/9/2024	5	19	40	6.80
10/16/2024	7	13	20	7.63
10/23/2024	5	10	0	7.50
10/30/2024	7	7	30	7.43
11/6/2024	8	13	0	7.76
11/13/2024	3	6	0	7.31
11/20/2024	2	5	0	7.94
11/27/2024	2	6	0	7.27
12/4/2024	9	8	0	7.79
12/11/2024	9	15	0	7.03
12/18/2024	6	13	0	6.96
Average	5	11	3	7.37

Table 4: 2024-Q4 Treated Effluent Compliance

Yearly Average	cBOD mg/L	TSS mg/L	e-coli 200 count/100 mL	pH
2024	26	27	12	7.22
2024 (minus Q1)	9	17	5	7.36

Table 5: 2024 Total Annual Average

cBOD:

- Pre-completion of the capital work at Regional, from January 3, 2024 (Q1), the average cBOD was 76 mg/L. By the end of Q4, the average cBOD was 5 mg/L, a 93% reduction.
 - Compliance is based on quarterly averages; thus the Regional was compliant 3 out of 4 quarters.

TSS:

- Pre-completion of the capital work at Regional, the average TSS was 58 mg/L. By the end of Q4, the average TSS was 11 mg/L, an 81% reduction.
 - Compliance is based on quarterly averages; thus compliance was met 2 out of 4 quarters.

E. coli:

- Pre-completion of the capital work at Regional, the average E. coli was 669 counts of E. coli per 100 ml of sample. By the end of Q4, the average count was 3 counts, a 99% reduction.
 - Compliance is based on quarterly averages; thus the Regional was compliant 3 out of 4 quarters.

Acute Lethality (Rainbow Trout Toxicity):

- Regional met compliance 3 out of 4 quarters.

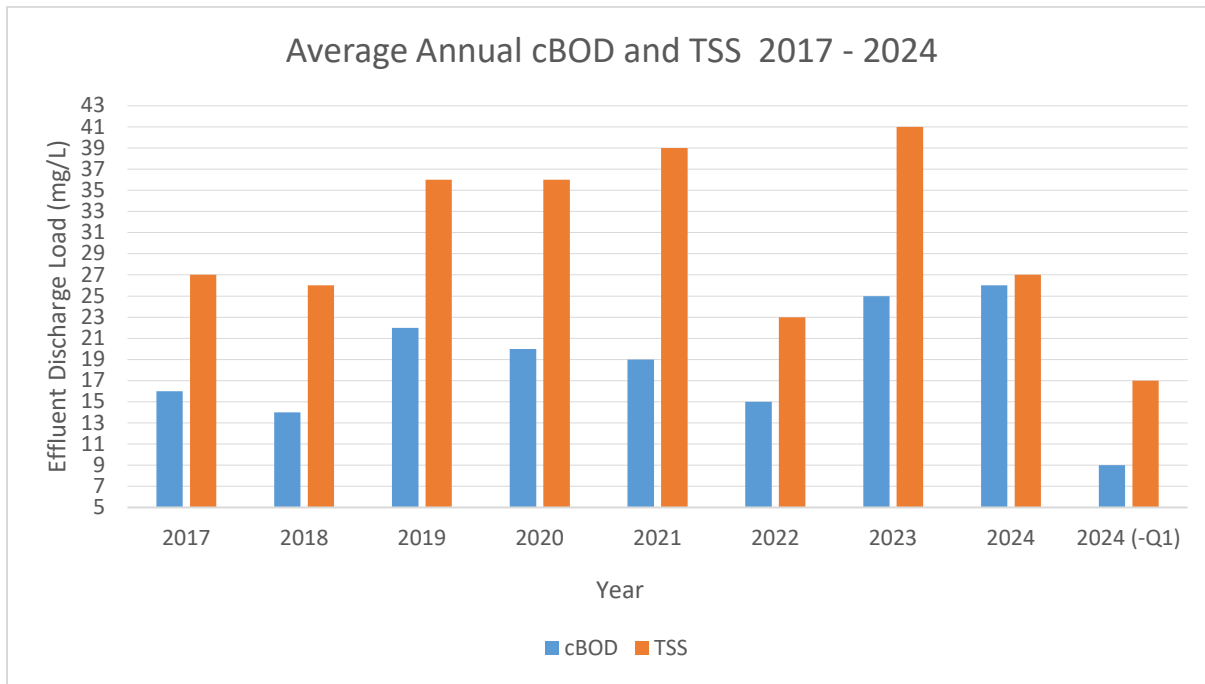


Figure 2: Treated Effluent Compliance – History in Review

Historical Trends

Since 2020, the Regional WWTF has undergone extensive capital upgrades to meet the treated effluent discharge criteria of its *Approval*. This work was recognized as needed in 2019, when it was observed that the quality of the effluent leaving the facility was continually exceeding the WWTF's *Approval to Operate* limits (particularly TSS) as well as Federal limits. In addition, the presence of strong and enduring odour which was impacting the community. The graph presented above highlights the trend of increasing cBOD and TSS from 2017 to 2023, the 2024 average, as well as the 2024 "minus Q1" average, which shows a very favourable drop in treated effluent load and compliance numbers which have not been seen in the past 8 years.

User Loading Reports

See *Appendix A*.

System Improvements

Independent engineering consulting advice was received, indicating that the design of additional system compliance related measures requires more effluent data from industrial and institutional contributors. This data can be gathered through installation of continuous monitoring/sampling devices at the point of discharge.

The authority for these installations is found under section 335 *Municipal Government Act*. This section of the Act enables municipal engineers to require industrial and institutional property owners to provide a suitable building service connection location for equipment to be supplied by Regional Sewer. The cost of continuous monitoring/sampling devices has been included in the current year budget. A staff

level discussion has occurred between the Town of Kentville (TOK) and the Municipality about the issuance of joint communications to the relevant property owners.

- To date, the Municipality of the County of Kings has been in contact with the Valley Regional Hospital (VRH) as a potential institutional loader contributor which would be a candidate for continuous monitoring. VRH is amenable to the addition of continuous monitoring equipment. EPW staff is currently compiling literature and pricing on the most suitable monitoring/sampling equipment to be installed at this location.

FINANCIAL IMPLICATIONS

There are no financial implications to this briefing note.

STRATEGIC PLAN ALIGNMENT

	Strong Communities	
a	Environmental Stewardship	Community Based Environmental Projects
	Economic Development	
	Good Governance	
a	Financial Sustainability	Management of Existing and Future Assets
	Other	

APPENDICES

Appendix A: User Loading Reports

APPROVALS

Brad Carrigan, Director of Engineering and Public Works

March 5, 2025

Scott Conrod, Chief Administrative Officer

March 6, 2025

APPENDIX A

User Loading Reports

Monthly Sum by Partner - December 2024

	Town of Kentville			Village of New Minas			Pepsi Co			Municipality of Kings			Totals				
	Maximum Average Daily Load			Maximum Average Daily Load			Maximum Average Daily Load			Maximum Average Daily Load			Maximum Average Daily Load			% Plant Capacity	
Limits	1779000	5015	5015	1024	2321	2321	143000	3300	3300	475000	1060	1060	3751	13610	13610	13610	12373
	Hyd Load	BOD	TSS	Hyd Load	BOD	TSS	Hyd Load	BOD	TSS	Hyd Load	BOD	TSS	Hyd Load	BOD	TSS	Org Max	Org Design
	(IGPD)	(lbs/day)	(lbs/day)	(IGPD)	(lbs/day)	(lbs/day)	(IGPD)	(lbs/day)	(lbs/day)	(IGPD)	(lbs/day)	(lbs/day)	(IGPD)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)
January	713,656	2,193	1,765	407,926	230	286	115,826	722	2,049	250,562	671	299	1,487,970	3,816	4,399	28%	31%
February	793,054	4,703	2,274	376,213	404	375	111,356	930	1,853	222,537	388	290	1,503,160	6,425	4,792	47%	52%
March	1,303,132	3,208	4,258	492,669	645	580	109,656	594	1,212	309,428	542	577	2,214,885	4,989	6,627	37%	40%
April	906,758	2,568	1,813	428,140	339	1,400	133,299	1,062	1,995	273,146	336	307	1,741,343	4,305	5,515	32%	35%
May	678,784	2,325	2,714	341,456	694	695	104,520	891	1,246	243,753	328	343	1,368,513	4,238	4,998	31%	34%
June	660,023	2,309	2,148	317,367	370	274	129,675	846	1,450	249,793	395	437	1,356,858	3,920	4,309	29%	32%
July	903,677	1,656	1,448	461,545	649	625	139,639	1,339	2,114	263,852	427	378	1,768,713	4,071	4,565	30%	33%
August	713,662	2,957	2,505	314,793	419	235	134,677	1,484	1,924	210,795	289	333	1,373,927	5,149	4,997	38%	42%
September	638,659	2,418	1,342	326,816	526	575	125,065	1,048	1,247	232,546	340	331	1,323,086	4,332	3,495	32%	35%
October	614,444	2,043	1,621	150,881	310	195	113,200	665	1,263	238,101	662	521	1,116,626	3,680	3,600	27%	30%
November	694,396	2,118	1,714	377,990	432	230	112,259	875	1,710	186,333	292	326	1,370,978	3,717	3,980	27%	30%
December	630,855	688	1,517	408,777	630	576	118,727	1,014	1,774	236,674	1,436	411	1,395,033	3,768	4,278	28%	30%
Yearly Average	770,925	2,432	2,093	367,048	471	504	120,658	956	1,653	243,127	509	379	1,501,758	4,368	4,630	32%	35%

Exceeds Maximum Allocation

% Maximum Capacity to Date

12/31/2024 1,501,758 4,368 4,630

Average: **40%** **32%** **34%**

Pepsico Canada		Data used for Billing									
2024 Monthly Flow & Load Report		Results exceed maximum									
	Pepsi Co						Maximum Average Daily Load				
							171,736	143,000	143,000	3,300	3,300
	Date	Flow USGD	BOD mg/l	BOD lbs/day	TSS mg/l	TSS lbs/day	Flow USGD	Flow IGPD	Avg Daily IGPD	BOD lbs/day	TSS lbs/day
Jan	2024-01-04	231,403	444	857	1,753	3385	231,403	192,683		856	3385
	2024-01-11	174,260	651	947	1,397	2031	174,260	145,102		946	2031
	2024-01-18	216,883	489	885	1,320	2389	216,883	180,593		885	2389
	2024-01-25	237,872	393	780	1,030	2044	237,872	198,070		779	2044
	Average	215,104	494	867	1,375	2,462	215,104	179,112	115,826	866	2,462
Feb	2024-02-01	235,976	606	1193	757	1491	235,976	196,491		1,193	1491
	2024-02-08	237,628	630	1249	1,913	3793	237,628	197,867		1,249	3793
	2024-02-15	205,678	962	1651	457	784	205,678	171,263		1,650	784
	2024-02-22	206,353	218	375	1,647	2836	206,353	171,825		375	2836
	Average	221,409	604	1,117	1,194	2,226	221,409	184,362	111,356	1,117	2,226
Mar	2024-03-07	182,965	241	368	240	366	182,965	152,350		367	366
	2024-03-14	222,286	465	862	1,050	1948	222,286	185,092		862	1948
	2024-03-21	234,489	465	910	1,050	2054	234,489	195,253		909	2054
	Average	213,247	390	713	780	1,456	213,247	177,565	109,656	713	1,456
Q1	Average	216,587	496	899	1,116	2,048	216,587	180,346	112,279	899	2,048
Apr	2024-04-04	219,503	624	1143	1,355	2482	219,503	182,774		1,142	2482
	2024-04-11	222,368	927	1720	987	1831	222,368	185,160		1,720	1831
	2024-04-25	226,020	512	966	1,527	2880	226,020	188,201		966	2880
	Average	222,630	688	1,276	1,290	2,398	222,630	185,378	133,299	1,276	2,398
May	2024-05-02	212,109	639	1131	1,090	1929	212,109	176,618		1,130	1929
	2024-05-16	210,268	364	639	767	1346	210,268	175,085		639	1346
	2024-05-23	198,575	586	971	850	1408	198,575	165,348		970	1408
	2024-05-30	223,830	825	1541	700	1307	223,830	186,377		1,540	1307
	Average	211,196	604	1,070	852	1,498	211,196	175,857	104,520	1,070	1,498
Jun	2024-06-06	218,700	624	1139	1,980	3613	218,700	182,106		1,139	3613
	2024-06-13	233,566	587	1144	705	1374	233,566	194,484		1,143	1374
	2024-06-20	209,130	567	989	730	1274	209,130	174,137		988	1274
	2024-06-27	231,290	410	791	367	708	231,290	192,589		791	708
	Average	223,172	547	1,016	946	1,742	223,172	185,829	129,675	1,015	1,742
Q2	Average	218,999	613	1,121	1,029	1,879	218,999	182,355	122,498	1,120	1,879

Jul	2024-07-04	141,070	350	412	410	483	141,070	117,465		412	483
	2024-07-11	161,358	1,857	2500	3,207	4318	161,358	134,359		2,499	4318
	2024-07-18	236,883	987	1951	1,805	3568	236,883	197,246		1,950	3568
	2024-07-25	226,434	831	1570	947	1789	226,434	188,546		1,570	1789
	Average	191,436	1,006	1,608	1,592	2,540	191,436	159,404	139,639	1,608	2,540
Aug	2024-08-01	213,117	1,050	1867	1,303	2317	213,117	177,457		1,866	2317
	2024-08-08	194,941	1,047	1703	1,267	2061	194,941	162,322		1,702	2061
	2024-08-15	203,161	996	1688	1,203	2039	203,161	169,167		1,687	2039
	2024-08-22	203,585	1,104	1875	1,667	2832	203,585	169,520		1,875	2832
	Average	203,701	1,049	1,783	1,360	2,312	203,701	169,616	134,677	1,782	2,312
Sep	2024-09-05	194,256	887	1438	990	1605	194,256	161,752		1,438	1605
	2024-09-12	183,588	432	662	733	1123	183,588	152,869		662	1123
	2024-09-19	194,004	830	1344	1,033	1672	194,004	161,542		1,343	1672
	2024-09-26	187,580	1,017	1592	1,017	1592	187,580	156,193		1,591	1592
	Average	189,857	792	1,259	943	1,498	189,857	158,089	125,065	1,258	1,498
Q3	Average	194,998	949	1,550	1,298	2,117	194,998	162,370	133,127	1,549	2,117
Oct	2024-10-03	188,263	621	976	1,064	1671	188,263	156,762		975	1671
	2024-10-10	193,321	582	939	955	1541	193,321	160,973		938	1541
	2024-10-25	101,085	323	272	693	585	101,085	84,171		273	585
	2024-10-31	137,545	879	1009	1,983	2276	137,545	114,530		1,009	2276
	Average	155,054	601	799	1,174	1,518	155,054	129,109	113,200	799	1,518
Nov	2024-11-07	217,108	510	924	1,310	2373	217,108	180,780		924	2373
	2024-11-14	183,464	534	817	1,240	1898	183,464	152,766		817	1898
	2024-11-21	207,300	372	643	750	1297	207,300	172,613		644	1297
	2024-11-28	275,592	791	1819	1,153	2651	275,592	229,478		1,818	2651
	Average	220,866	552	1,051	1,113	2,055	220,866	183,909	112,259	1,051	2,055
Dec	2024-12-05	308,575	602	1550	1,317	3391	308,575	256,942		1,549	3391
	2024-12-12	211,767	501	885	493	871	211,767	176,333		885	871
	Average	260,171	552	1,218	905	2,131	260,171	216,638	118,727	1,217	2,131
Q4	Average	212,030	568	1,023	1,064	1,901	212,030	176,552	114,729	1,022	1,901
Annual	Average	210,654	657	1,148	1,127	1,986	210,654	175,406	120,658	1,148	1,986

PepsiCo Canada 2024 Daily Flow - IGPD
Maximum average daily load per contract - 143,000 IGPD

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/1/2024	19,063	163,613	111,879	141,478	154,953	133,388	62,897	147,764	133,061	141,969	67,102	131,978
1/2/2024	94,562	90,197	56,420	151,668	147,065	82,434	145,800	136,049	109,254	132,126	97,775	200,304
1/3/2024	163,384	49,134	44,401	150,673	45,473	154,585	149,474	137,530	79,129	130,532	51,302	205,897
1/4/2024	160,442	42,126	102,832	152,191	0	154,685	97,810	121,153	130,973	130,594	36,441	220,802
1/5/2024	163,505	111,439	173,141	117,993	7,747	152,186	125,419	132,118	134,687	62,356	131,363	213,949
1/6/2024	151,561	170,132	156,035	146,884	7,856	151,635	113,051	141,731	137,354	41,955	155,521	242,164
1/7/2024	108,708	167,443	126,858	72,239	6,542	134,424	106,446	143,520	132,531	105,754	150,531	152,558
1/8/2024	162,839	164,759	102,825	160,947	10,570	118,095	145,869	135,161	144,829	127,325	88,757	107,190
1/9/2024	123,455	70,871	62,716	157,736	33,502	62,825	153,192	124,457	141,886	125,892	15,146	153,085
1/10/2024	122,139	75,396	66,159	160,443	58,664	136,911	153,703	83,293	123,972	134,038	27,131	147,419
1/11/2024	120,823	82,223	114,935	154,178	121,783	164,354	111,877	87,719	137,402	127,801	33,099	146,415
1/12/2024	53,960	56,268	154,222	159,030	155,761	167,034	148,316	131,726	127,290	128,025	94,136	146,828
1/13/2024	27,010	142,904	156,165	124,203	146,592	161,942	143,152	138,351	123,365	120,760	127,495	150,202
1/14/2024	41,115	144,144	154,121	29,722	148,219	90,661	143,152	150,493	117,384	111,601	127,204	147,178
1/15/2024	128,139	142,606	87,576	106,514	129,173	51,600	181,629	140,861	88,136	129,640	132,531	152,937
1/16/2024	139,923	135,002	40,160	179,314	145,789	71,652	145,626	150,379	134,654	147,821	67,524	154,549
1/17/2024	148,923	37,127	65,705	176,203	133,291	148,470	168,024	136,882	139,664	144,211	37,407	157,340
1/18/2024	150,375	65,591	104,450	159,249	15,114	153,902	164,242	139,614	137,560	134,638	72,361	154,239
1/19/2024	104,650	50,619	164,094	151,965	26,259	150,341	162,619	133,488	134,512	49,261	133,669	155,755
1/20/2024	68,239	124,359	165,108	112,613	25,957	144,999	130,217	140,336	139,718	62,219	138,494	157,019
1/21/2024	79,089	139,326	162,582	51,604	175,442	129,508	96,974	140,133	133,942	166,838	143,730	157,765
1/22/2024	143,846	143,074	130,934	16,085	198,500	77,185	152,295	141,155	126,719	140,713	127,948	24,283
1/23/2024	174,624	134,562	63,468	156,966	137,681	107,557	146,210	139,286	133,011	134,696	144,809	18,451
1/24/2024	176,055	49,766	102,248	159,769	191,492	147,347	143,889	146,541	132,846	134,502	134,233	0
1/25/2024	164,928	72,421	176,274	156,710	154,910	149,107	156,997	105,719	130,009	70,087	116,882	0
1/26/2024	52,989	136,045	175,293	146,267	84,029	158,759	151,144	133,127	130,058	60,045	190,590	0
1/27/2024	38,854	146,968	176,772	153,150	144,964	160,364	159,819	140,407	127,699	60,045	202,112	21,367
1/28/2024	56,033	156,411	143,578	135,633	162,355	162,915	165,504	142,321	80,029	78,420	191,080	21,367
1/29/2024	131,254	164,800	11,539	126,492	162,503	131,990	122,775	149,427	83,890	135,250	170,138	21,367
1/30/2024	155,600		11,532	131,058	155,191	79,413	147,879	137,307	126,408	144,734	161,249	109,984
1/31/2024	164,534		35,317		152,742		149,680	146,967		95,366		8,162
Average	115,826	111,356	109,656	133,299	104,520	129,676	139,639	134,678	125,066	113,200	112,259	118,728

Average Year to Date: 120,659

Village of New Minas 2024 Monthly Flow & Load Report							Data used for Billing Results exceed maximum															
	TOK 3 10" Line						RG4 10"line								less - Fox Hill			Maximum Average Daily Load				
	Date	Flow USGD	BOD mg/l	BOD lbs/day	TSS mg/l	TSS lbs/day	Flow USGD	BOD mg/l	BOD lbs/day	TSS mg/l	TSS lbs/day	Flow USGD	BOD lbs/day	TSS lbs/day	Flow USGD	BOD lbs/day	TSS lbs/day	Flow USGD	Flow IGPD	Avg Daily IGPD	BOD lbs/day	TSS lbs/day
Jan	1/4/2024	193,000	85	137	53	85	282,000	13	31	67	158	51,491	86	86	46,086	78	78	480,405	400,021		176	251
	1/25/2024	171,000	65	93	50	71	243,000	98	199	127	257	51,491	86	86	46,086	78	78	419,405	349,228		300	336
	Average	182,000	75	115	52	78	262,500	56	115	97	208	51,491	86	86	46,086	78	78	449,905	374,625	407,930	238	294
Feb	2/1/2024	153,000	95	121	147	188	229,000	115	220	270	516	51,491	86	86	46,086	78	78	433,491	360,957		427	790
	2/8/2024	130,000	128	139	57	62	205,000	228	390	107	183	51,491	86	86	46,086	78	78	386,491	321,821		615	331
	2/15/2024	158,000	36	47	73	96	234,000	128	250	100	195	51,491	86	86	46,086	78	78	443,491	369,283		383	377
	2/22/2024	146,000	200	244	50	61	237,000	104	206	100	198	51,491	86	86	46,086	78	78	434,491	361,789		536	345
	Average	146,750	115	138	82	102	226,250	144	266	144	273	51,491	86	86	46,086	78	78	424,491	353,463	376,217	490	461
Mar	3/7/2024	313,000	178	465	187	488	426,000	180	640	130	462	51,491	86	86	46,086	78	78	790,491	658,221		1,191	1,036
	3/14/2024	305,000	58	148	47	120	395,001	93	306	110	362	51,491	86	86	46,086	78	78	751,492	625,748		540	568
	3/21/2024	199,000	149	247	87	144	290,000	53	128	67	162	51,491	86	86	46,086	78	78	540,491	450,053		461	392
	Average	272,333	128	287	107	251	370,334	109	358	102	329	51,491	86	86	46,086	78	78	694,158	578,007	492,673	731	665
Q1	Average	200,361	106	180	80	144	286,361	103	246	116	270	51,491	86	86	46,086	78	78	522,851	435,365	425,607	486	473
Apr	4/4/2024	215,000	44	79	633	1,135	302,000	110	277	100	252	51,491	86	86	46,086	78	78	568,491	473,368		442	1,473
	4/11/2024	214,000	56	100	60	107	298,000	58	144	670	1,665	51,491	86	86	46,086	78	78	563,491	469,204		330	1,858
	4/25/2024	159,000	89	118	700	928	239,000	150	299	57	114	51,491	86	86	46,086	78	78	449,491	374,279		503	1,128
	Average	196,000	63	99	464	723	279,667	106	240	276	677	51,491	86	86	46,086	78	78	527,158	438,950	428,144	425	1,486
May	5/2/2024	156,001	89	116	40	52	232,000	189	366	127	246	51,491	86	86	46,086	78	78	439,492	365,953		568	384
	5/9/2024	195,000	293	477	283	460	293,000	380	929	403	985	51,491	86	86	46,086	78	78	539,491	449,220		1,492	1,531
	5/16/2024	145,000	63	76	50	60	222,000	83	154	73	135	51,491	86	86	46,086	78	78	418,491	348,467		316	281
	5/23/2024	148,000	106	131	43	53	236,000	93	183	117	230	51,491	86	86	46,086	78	78	435,491	362,622		400	369
	5/30/2024	134,000	708	791	337	377	220,000	135	248	480	881	51,491	86	86	46,086	78	78	405,491	337,642		1,125	1,344
	Average	259,334	420	530	251	334	240,600	176	376	240	495	51,491	86	86	46,086	78	78	447,691	372,781	341,460	780	782
Jun	6/6/2024	149,000	106	132	60	75	243,000	91	184	57	116	51,491	86	86	46,086	78	78	443,491	369,283		402	277
	6/13/2024	139,000	254	294	207	240	252,000	148	311	70	147	51,491	86	86	46,086	78	78	442,491	368,451		691	473
	6/20/2024	129,000	125	134	80	86	232,000	74	143	83	161	51,491	86	86	46,086	78	78	412,491	343,470		363	333
	6/27/2024	133,000	99	110	113	125	237,001	86	170	73	144	51,491	86	86	46,086	78	78	421,492	350,965		366	355

	Average	137,500	146	168	115	132	241,000	100	202	71	142	51,491	86	86	46,086	78	78	429,991	358,042	317,371	456	360
Q2	Average	197,611	210	266	277	396	253,756	127	273	196	438	51,491	86	86	46,086	78	78	468,280	389,924	362,325	554	876
Jul	7/4/2024	121,999	193	196	173	176	221,000	551	1,016	737	1,358	51,491	86	86	46,086	78	78	394,490	328,482		1,298	1,620
	7/11/2024	171,000	129	184	43	61	276,000	80	184	57	131	51,491	86	86	46,086	78	78	498,491	415,080		454	278
	7/18/2024	202,000	130	219	100	168	319,000	180	479	150	399	51,491	86	86	46,086	78	78	572,491	476,698		784	653
	7/26/2024	149,500	112	140	90	112	250,000	85	177	47	98	51,491	86	86	46,086	78	78	450,991	375,528		403	296
	Average	161,125	141	185	102	129	266,500	224	464	248	496	51,491	86	86	46,086	78	78	479,116	398,947	461,549	735	712
Aug	8/1/2024	136,000	182	206	163	185	259,999	86	186	50	108	51,491	86	86	46,086	78	78	447,490	372,613		478	379
	8/8/2024	110,000	121	111	77	71	197,500	160	264	93	153	51,491	86	86	46,086	78	78	358,991	298,922		461	310
	8/15/2024	125,000	238	248	67	70	241,000	239	480	73	147	51,491	86	86	46,086	78	78	417,491	347,634		814	303
	8/22/2024	130,000	62	67	93	101	238,000	57	113	53	105	51,491	86	86	46,086	78	78	419,491	349,299		266	292
	Average	125,250	151	158	100	107	234,125	136	261	67	128	51,491	86	86	46,086	78	78	410,866	342,117	314,797	505	321
Sep	9/5/2024	127,999	171	183	87	93	235,999	114	224	63	124	51,491	86	86	46,086	78	78	415,489	345,967		493	303
	9/11/2024	137,000	62	71	73	83	245,999	113	232	80	164	51,491	86	86	46,086	78	78	434,490	361,788		389	333
	9/18/2024	129,000	381	410	733	789	255,000	229	487	303	644	51,491	86	86	46,086	78	78	435,491	362,622		983	1,519
	9/25/2024	127,000	174	184	87	92	245,666	152	314	149	311	51,491	86	86	46,086	78	78	428,490	356,792	326,820	622	718
	Average	130,250	197	212	245	264						51,491	86	86								
Q3	Average	138,875	163	185	149	167	248,764	171	346	155	312	51,491	86	86	46,086	78	78	439,491	365,952	367,722	621	584
Oct	10/2/2024	112,000	190	177	117	109	221,000	146	269	63	116	51,491	86	86	46,086	78	78	384,491	320,156		532	311
	10/10/2024	86,000	250	179	233	167	157,000	141	185	40	52	51,491	86	86	46,086	78	78	294,491	245,215		450	305
	10/17/2024	107,000	37	33	67	60	177,000	40	59	57	84	51,491	86	86	46,086	78	78	335,491	279,355		178	230
	10/25/2024	144,000	112	135	80	96	271,000	90	203	43	97	51,491	86	86	46,086	78	78	466,491	388,435		424	279
	Average	112,250	147	131	124	108	206,500	104	179	51	87	51,491	86	86	46,086	78	78	370,241	308,290	150,885	396	281
Nov	11/14/2024	137,000	131	150	83	95	226,000	152	286	93	175	51,491	86	86	46,086	78	78	414,491	345,136		522	356
	11/21/2024	141,000	138	162	53	62	247,000	129	266	63	130	51,491	86	86	46,086	78	78	439,491	365,953		514	278
	Average	139,000	134	156	68	78	236,500	140	276	78	152	51,491	86	86	46,086	78	78	426,991	355,545	377,994	518	317
Dec	12/5/2024	157,000	125	164	37	48	270,000	250	563	230	518	51,491	86	86	46,086	78	78	478,491	398,427		813	652
	12/13/2024	136,000	155	176	193	219	199,000	216	358	220	365	51,491	86	86	46,086	78	78	386,491	321,821		620	670
	Average	146,500	140	170	115	134	234,500	233	460	225	442	51,491	86	86	46,086	78	78	432,491	360,124	408,781	717	661
Q4	Average	132,583	140	152	102	107	225,833	159	305	118	227	51,491	86	86	46,086	78	78	409,908	341,320	312,553	544	420
Annual	Average	167,358	155	196	152	204	253,679	140	293	146	312	51,491	86	86	46,086	78	78	460,133	383,140	367,052	170,329	170,406

Town of Kentville 2024 Monthly Flow & Load Report		Data used for Billing Results exceed maximum																			
RG3 8"line						RG5 18"line					less - Coldbrook					Maximum Average Daily Load					
																2,136,491	1,779,000	5,015	5,015		
Date	Flow USGD	BOD mg/l	BOD lbs/day	TSS mg/l	TSS lbs/day	Flow USGD	BOD mg/l	BOD lbs/day	TSS mg/l	TSS lbs/day	Flow USGD	BOD mg/l	BOD lbs/day	TSS mg/l	TSS lbs/day	Flow USGD	Flow IGPD	Avg Daily IGPD	BOD lbs/day	TSS lbs/day	
Jan	1/2/2024	126,306	51	54	110	116	999,969	214	1,785	200	1,668	187,143	91	142	80	125	939,132	781,991		1,697	1,659
	1/25/2024	103,822	175	152	134	116	930,542	415	3,221	253	1,963	175,714	58	85	117	171	858,650	714,975		3,288	1,908
	Average	115,064	113	103	122	116	965,256	314	2,503	226	1,816	187,143	564	880	73	114					
												178,571	374	557	173	258	898,891	748,483	713,656	2,493	1,784
											182,143	272	416	111	167						
Feb	2/1/2024	98,428	106	87	168	138	933,042	538	4,186	313	2,436	167,143	86	120	143	199	864,327	719,702		4,153	2,375
	2/8/2024	82,086	194	133	108	74	790,393	708	4,667	220	1,450	160,000	209	279	130	173	712,479	593,263		4,521	1,351
	2/15/2024	104,481	36	31	1,345	1,172	950,617	824	6,533	287	2,275	180,000	99	149	143	215	875,098	728,671		6,415	3,232
	2/22/2024	97,290	250	203	178	144	881,670	510	3,750	300	2,206	174,286	154	224	147	214	804,674	670,031		3,729	2,136
	Average	95,571	146	114	450	382	888,930	645	4,784	280	2,092	170,357	137	193	141	200	814,145	677,917	793,053	4,705	2,274
Mar	3/7/2024	199,199	120	199	146	243	1,513,682	135	1,704	280	3,535	210,714	171	301	387	680	1,502,167	1,250,815		1,602	3,098
	3/14/2024	197,213	39	64	82	135	1,346,304	116	1,302	700	7,860	232,857	165	320	143	278	1,310,660	1,091,352		1,046	7,717
	3/21/2024	130,403	144	157	124	135	1,234,521	699	7,197	213	2,193	202,857	220	372	217	367	1,162,067	967,623		6,982	1,961
	Average	175,605	101	140	117	171	1,364,836	317	3,401	398	4,529	215,476	185	331	249	442	1,324,965	1,103,263	1,303,132	3,210	4,259
Q1	Average	128,747	120	119	230	223	1,073,007	425	3,563	301	2,812	189,325	198	313	167	270	1,012,667	843,221	936,614	3,469	2,772
Apr	4/4/2024	133591	77	86	58	65	1,232,311	334	3,433	160	1,644	206,429	57	98	113	195	1,159,473	965,463		3,421	1,514
	4/11/2024	145956	230	280	258	314	1,177,780	209	2,053	213	2,092	195,714	202	330	217	354	1,128,022	939,274		2,003	2,052
	4/25/2024	106908	179	160	220	196	990,517	282	2,330	203	1,677	201,072	130	214	165	274	1,143,748	952,369	906,758	2,712	1,783
	Average	128,818	162	175	179	192	1,133,536	275	2,605	192	1,804										
May	5/2/2024	98,282	179	147	220	180	942,847	249	1,958	357	2,807	177,143	114	168	87	129	863,986	719,419		1,937	2,858
	5/16/2024	89,681	111	83	1,647	1,232	1,249,900	270	2,815	260	2,710	191,429	150	239	140	224	1,148,152	956,036		2,659	3,718
	5/23/2024	98,780	126	104	1,647	1,357	807,258	206	1,387	280	1,885	188,571	171	269	150	236	717,467	597,416		1,222	3,006
	5/30/2024	87,704	307	225	347	254	854,872	402	2,866	267	1,904	201,429	73	123	203	341	741,147	617,134		2,968	1,817
	Average	93,612	181	140	965	756	794,073	456	3,020	253	1,676	198,571	191	316	157	260	867,688	722,501	678,784	2,197	2,850
						929,790	317	2,409	283	2,196	191,429	140	223	147	238						
Jun	6/6/2024	96,826	200	162	250	202	920,342	399	3,063	380	2,917	184,286	276	424	327	503	832,882	693,519		2,801	2,616
	6/13/2024	102,516	276	236	286	245	857,107	356	2,545	393	2,809	192,857	256	412	213	343	766,766	638,466		2,369	2,711

Municipality of Kings 2024 Monthly Flow & Load Report		Data used for Billing Results exceed maximum																		
Greenwich							Fox Hill			Coldbrook					Maximum Average Daily Load incl API					
															966,765	804,999	805,000	IGPD	2,974	2,974
	Date	Flow USGD	BOD mg/l	BOD lbs/day	TSS mg/l	TSS lbs/day	Flow USGD	BOD lbs/day	TSS lbs/day	Flow USGD	BOD mg/l	BOD lbs/day	TSS mg/l	TSS lbs/day	Flow USGD	Flow IGPD	Avg Daily IGPD	BOD lbs/day	TSS lbs/day	
Jan	1/4/2024	83,564	920	641	272	190	46,086	78	78	187,143	91	142	80	125	316,793	263,785		861	393	
	1/11/2024	68,106	221	126	196	111	46,086	78	78	175,714	58	85	117	171	289,906	241,397		289	360	
	1/18/2024	79,633	249	165	146	97	46,086	78	78	187,143	564	880	73	114	312,862	260,512		1,123	289	
	1/25/2024	59,578	199	99	266	132	46,086	78	78	178,571	374	557	173	258	284,235	236,675		734	468	
	Average	72,720	397	258	220	132	46,086	78	78	182,143	272	416	111	167	300,949	250,592	250,592	752	378	
Feb	2/1/2024	51,810	404	175	168	73	46,086	78	78	167,143	86	120	143	199	265,039	220,691		373	350	
	2/8/2024	47,085	469	184	170	67	46,086	78	78	160,000	209	279	130	173	253,171	210,809		541	318	
	2/15/2024	53,576	336	150	170	76	46,086	78	78	180,000	99	149	143	215	279,662	232,867		377	369	
	2/22/2024	50,925	618	262	338	144	46,086	78	78	174,286	154	224	147	214	271,297	225,902		564	436	
	Average	50,849	457	193	212	90	46,086	78	78	170,357	137	193	141	200	267,292	222,567	222,567	464	368	
Mar	3/7/2024	100,991	317	267	200	168	46,086	78	78	210,714	171	301	387	680	357,791	297,923		646	926	
	3/14/2024	153,708	210	269	98	126	46,086	78	78	232,857	165	320	143	278	432,651	360,257		667	482	
	3/21/2024	75,547	143	90	174	110	46,086	78	78	202,857	220	372	217	367	324,490	270,194		540	555	
	Average	110,082	223	209	157	135	46,086	78	78	215,476	185	331	249	442	371,644	309,458	309,458	618	654	
Q1	Average	77,884	359	220	196	119	46,086	78	78	189,325	198	313	167	270	313,295	260,872	260,872	611	467	
Apr	4/4/2024	105802	172	152	168	148	46,086	78	78	206,429	57	98	113	195	358,317	298,361		328	421	
	4/11/2024	92177	160	123	178	137	46,086	78	78	195,714	202	330	217	354	333,977	278,094		531	569	
	4/25/2024	60833	192	97	170	86	46,086	78	78	134,048	86	143	110	183	346,147	288,228	273,176	430	495	
	Average	86,271	175	124	172	124	46,086	78	78											
May	5/2/2024	54635	157	72	154	70	46,086	78	78	177,143	114	168	87	129	277,864	231,370		318	277	
	5/9/2024	55629	156	72	150	70	46,086	78	78	191,429	150	239	140	224	293,144	244,093		389	372	
	5/16/2024	55173	259	119	318	146	46,086	78	78	188,571	171	269	150	236	289,830	241,334		466	460	
	5/23/2024	56237	269	126	296	139	46,086	78	78	201,429	73	123	203	341	303,752	252,926		327	558	
	5/30/2024	54613	292	133	220	100	46,086	78	78	198,571	191	316	157	260	299,270	249,194		527	438	
	Average	92,096	378	174	379	175	46,086	78	78	191,429	140	223	147	238	292,772	243,783	243,783	405	421	

Jun	6/6/2024	53826	268	120	280	126	46,086	78	78	184,286	276	424	327	503	284,198	236,644		622	707
	6/13/2024	55582	254	118	260	121	46,086	78	78	192,857	256	412	213	343	294,525	245,243		608	542
	6/20/2024	56718	134	63	138	65	46,086	78	78	182,857	176	268	167	255	285,661	237,862		409	398
	6/27/2024	55345	40	18	94	43	46,086	78	78	234,286	51	100	150	293	335,717	279,543		196	414
	Average	55,368	174	80	193	89	46,086	78	78	198,572	190	301	214	348	300,025	249,823	249,823	459	515
Q2	Average	77,912	242	126	248	129	46,086	78	78	174,683	139	222	157	256	312,981	260,611	255,594	431	477
Jul	7/4/2024	64957	196	106	176	95	46,086	78	78	172,857	159	229	133	192	283,900	236,396		413	365
	7/11/2024	93987	156	122	126	99	46,086	78	78	188,571	279	439	227	357	328,644	273,653		639	534
	7/18/2024	111013	128	119	140	130	46,086	78	78	221,429	204	377	167	308	378,528	315,190		574	516
	7/25/2024	56194	180	84	108	51	46,086	78	78	174,286	167	243	193	281	276,566	230,289		405	410
	Average	81,538	165	108	138	94	46,086	78	78	189,286	202	322	180	284	316,910	263,882	263,882	508	456
Aug	8/1/2024	54185	183	83	90	41	46,086	78	78	154,286	222	286	217	279	254,557	211,963		447	398
	8/8/2024	57571	218	105	216	104	46,086	78	78	148,571	116	144	143	177	252,228	210,024		327	359
	8/15/2024	59255	136	67	184	91	46,086	78	78	152,857	128	163	210	268	258,198	214,995		308	437
	8/22/2024	49789	281	117	317	132	46,086	78	78	113,928	116	148	142	181	254,994	212,327	210,825	361	398
	Average	55,200	204	93	202	92	46,086	78	78										
Sep	9/5/2024	54130	82	37	130	59	46,086	78	78	163,333	239	326	187	255	263,549	219,450		441	392
	9/12/2024	67048	235	131	130	73	46,086	78	78	170,000	117	166	160	227	283,134	235,758		375	378
	9/19/2024	57396	134	64	118	56	46,086	78	78	191,429	133	212	123	196	294,911	245,565		354	330
	9/26/2024	56713	251	119	242	114	46,086	78	78	172,857	203	293	237	342	275,656	229,532		490	534
	Average	58,822	176	88	155	76	46,086	78	78	174,405	173	249	177	255	279,313	232,576	232,576	415	409
Q3	Average	65,187	182	96	165	87	46,086	78	78	159,206	164	240	166	240	283,739	236,262	235,761	428	421
Oct	10/3/2024	57819	218	105	254	122	46,086	78	78	162,857	187	254	183	249	266,762	222,126		437	449
	10/10/2024	61577	167	86	134	69	46,086	78	78	177,143	159	235	160	236	284,806	237,151		399	383
	10/17/2024	81826	445	304	917	626	46,086	78	78	170,000	887	1,258	217	308	297,912	248,064		1,640	1,012
	10/31/2024	73372	174	106	114	70	46,086	78	78	176,250	263	387	247	363	295,708	246,228		571	511
	Average	68,648	251	150	355	222	46,086	78	78	170,000	296	420	240	340	286,297	238,392	238,131	762	589
										214,062	448	638	262	374					
Nov	11/7/2024	50634	408	172	524	221	46,086	78	78	188,571	188	296	153	241	285,291	237,554		546	540
	11/14/2024	40261	158	53	126	42	46,086	78	78	162,857	155	211	113	153	249,204	207,506		342	273
	11/21/2024	42611	151	54	126	45	46,086	78	78	170,000	205	291	193	274	258,697	215,410		423	397
	Average	44,502	239	93	259	103	46,086	78	78	173,809	183	266	153	223	264,397	220,157	186,363	437	403
Dec	12/5/2024	43916	138	51	180	66	46,086	78	78	184,286	1,104	1,697	83	128	274,288	228,392		1,826	272

	12/12/2024	51023	1,347	573	112	48	46,086	78	78	197,143	307	505	353	580	294,252	245,016		1,156	706
	Average	47,470	742	312	146	57	46,086	78	78	190,714	706	1,101	218	354	284,270	236,704	236,704	1,491	489
Q4	Average	53,540	411	185	253	127	46,086	78	78	192,862	446	668	211	317	278,321	231,751	220,399	897	494
Annual	Average	68,631	299	157	216	116	46,086	78	78	179,019	237	361	175	271	297,084	247,374	243,157	592	465

TO	Regional Sewer Committee
PREPARED BY	Luke Swanwick, CET
MEETING DATE	March 13, 2025
SUBJECT	Regional Forcemain Rehabilitation Project Update

ORIGIN

- 2024-03-07 - [Capital budget presentation to Regional Sewer Committee.](#)
- 2024-10-17 – [Regional Sewer Supplemental Capital Budget 2024/25.](#)

RECOMMENDATION

That the Regional Sewer Committee accept the briefing note on the Regional Forcemain Rehabilitation Project dated March 13, for information.

INTENT

To provide an update to the Regional Sewer Committee on project status and funding relating to the Regional Sewer Forcemain replacement project.

DISCUSSION

This briefing relates to the replacement of an 18” (500mm) and an 8” (200mm) forcemain located between Regional Lift Station (RG5), located behind the Kentville Justice Centre, and a shorter length of line farther east along the Harvest Moon Trail into the Regional Treatment Facility.

Line Breaks

- January 20, 2025 Forcemain repair was required on the existing ductile iron 18” pipe 125 west of Kentville curling club. Break was excavated and exposed by 12:30pm. The area was dammed off and discharge was pumped to TOK lift station. Repair was completed and deemed successful at 6:00pm.
- Note: Nova Scotia Environment and Climate Change and Environment and Climate Change Canada were notified.

Construction Update

- Mid-Valley (MVC) has installed 18” HDPE pipe from RG5 Lift Station to 1+380 (existing connection valve), minus the section crossing under the Cornwallis River.
- All the new pipe has been filled with water, pressure tested and has successfully met the test specifications to pass.
- MVC has successfully connected the new and existing 18” forcemain pipe to the new gate valves at RG5.
- MVC is planning to install a temporary by-pass around Mill Brook. 18” Pipe will temporarily be installed across the bridge and enclosed in a plywood box to be protected.
- The temporary bypass is part of the contractors directional drilling plan. The intent is to accelerate the project and relieve strain on the existing 18” ductile iron pipe under the brook until the directional drilling can be achieved when the weather and site drilling conditions improve.

FINANCIAL IMPLICATIONS

As previously reviewed with the Committee, the Municipality has received approval from the Province of Nova Scotia to use any unspent Provincial funds on advancing the timeline of other Regional capital items (see October 17, 2024, Request for Decision). Municipal staff have been arranging for the advancement of year five projects (creation of an access road and potentially removal of biosolids from geotubes) for balance of this fiscal year and will be reporting back during the upcoming budgeting process on additional projects. The work has been proceeding year-to-date on contract pricing without issuance of change

orders. To date, progress claims have been billed for 27% of the total contract value (including HST).

STRATEGIC PLAN ALIGNMENT

	Strong Communities	
✓	Environmental Stewardship	Community Based Environmental Projects
	Economic Development	
	Good Governance	
✓	Financial Sustainability	Management of Existing and Future Assets
	Other	

APPENDICES

None

APPROVALS

Brad Carrigan, Director of Engineering & Public Works February 25, 2025

Scott Conrod, Chief Administrative Officer February 27, 2025

TO	Regional Sewer Committee
PREPARED BY	Chris Ritchie, Funding Analyst Tyler Honeywood, Manager of Financial Reporting
MEETING DATE	March 13, 2025
SUBJECT	December 2024 Regional Sewer Variance Report

ORIGIN

First Introduction

RECOMMENDATION

That Regional Sewer Committee receive for information the December 2024 Regional Sewer Variance Report, as attached to the March 13, 2025 Briefing.

INTENT

For Regional Sewer Committee to receive interim financial results of the Regional Sewer System operations as of December 31, 2024 as well as forecasted year-end results.

DISCUSSION

The Regional Sewer December 2024 Variance Report is attached as Appendix A.

Variances are identified within the report as follows:

- On target – green marker – variance less than \$2,000 or under budget by up to 10%
- Minor variance – yellow marker – variance under budget by more than 10% or over by up to 10%
- Major variance – red marker – variance over budget by 10% or more

Major Variances for Expenditures

Monitoring: \$10,443 / (78.5%)—This line item is forecasted to come in under budget at year-end, due to fewer odour-related issues compared to previous years. Also, there were no community meeting advertisements and no ‘What Not To Flush’ radio ads this year.

Power – Pumping: \$(8,288) / (11.4%) – The power pumping line item is forecasted to come in under budget for year-end.

Power – Treatment: \$41,702 / 11.0% – This line item is forecasted to have a year-end variance of 11% over budget. This is being driven by power consumption at the Regional Treatment Plant. The aeration upgrade in cell 1 requires more air at certain times, and by extension, more power. The report from Quarter 2 was forecasting a 45% year-end variance. However, as we get closer to year-end, the forecast is expected to vary 11% by year-end.

Debenture – Interest: (\$81,313) / (46.4%) – This line item is forecasted to have a year-end variance much lower than expected. A debenture was issued in Fall 2024 rather than the originally planned date of Spring 2024. The result is that debenture interest went down, while Interest on short-term debt went up due to the debenture being issued later in the year.

Commentary on Expenditures

Support Services: This item is forecasted to be on target with the budget. It is composed of a budgeted historic admin fee (\$49,670), which will not fluctuate, and the remainder is an allocation of training, clothing, supplies, and phones.

Treatment: The year-end forecast is expected to be on target with the budget for this line item. Loomers charges a minimum of 52 loads per year, with more loads charged as needed, based on the contract. The year-to-date budget variance is the result of timing differences in invoices with Loomers. The postal strike resulted in delays in receiving invoices from Loomers between October and December.

Vehicle Expense: The line item is forecasted to meet the year-end budgeted amount. The budget is based on a three-year average maintenance for each vehicle, a three-year average KM multiplied by the average fuel rate from Statistics Canada, and an indexed insurance rate. This year, vehicles have seen slightly elevated maintenance costs on a few units, and one GMC Sierra was added back into the PW fleet.

Laboratory: The budget is expected to be on target with the year-end forecast. There was a recent purchase of HACH equipment for the Laboratory. This equipment is used at the laboratory to conduct weekly compliance testing and industry testing.

Maintenance: A portion of Overall Direct Responsible Charge (ODRC) expenditures (a regulatory requirement) have been allocated to this account for 2024/25 but this budget line item is still expected to be on target with the year-end forecast. A full year's allocation of ODRC costs will be included in the 2025/26 budget. Some maintenance items are scheduled to be completed at Regional before the end of the fiscal year.

FINANCIAL IMPLICATIONS

If the forecasted deficit is realized the Regional Sewer Partners will be responsible for their proportionate share of the deficit. Estimated additional partner contributions are presented in the Year-end Variance column of Appendix A.

APPENDICES

Appendix A: December 2024 Regional Sewer Variance Report

APPROVALS

Greg Barr, Director of Finance & IT	March 5, 2025
Brad Carrigan, Director of EPW	March 6, 2025
Scott Conrod, Chief Administrative Officer	March 6, 2025

Regional Sewer Committee December 2024 Variance Report	Year to Date				Year-end				
	Budget	Actual	Variance	% Variance	Budget	Forecast	Variance	% Variance	
Revenue									
Town of Kentville	\$ 773,400	\$ 773,400	\$ -	- %	\$ 1,031,200	\$ 1,035,981	\$ 4,781	0.5 %	
Village of New Minas	275,025	275,025	-	- %	366,700	368,400	1,700	0.5 %	
Pepsico	214,875	214,875	-	- %	286,500	287,828	1,328	0.5 %	
Municipality of Kings	237,075	237,075	-	- %	316,100	317,566	1,466	0.5 %	
Total Revenue	1,500,375	1,500,375	-	- %	2,000,500	2,009,776	9,276	0.5 %	
Operating Expenditure									
Support Services	50,700	54,546	3,846	7.6 %	67,600	67,600	-	- %	
Insurance	26,000	24,160	(1,840)	(7.1)%	26,000	24,160	(1,840)	(7.1)%	
Monitoring	9,975	2,143	(7,832)	(78.5)%	13,300	2,857	(10,443)	(78.5)%	
Laboratory	4,350	4,844	494	11.4 %	5,800	5,800	-	- %	
Wages	220,425	211,329	(9,096)	(4.1)%	293,900	284,801	(9,099)	(3.1)%	
Benefits	41,025	40,786	(239)	(0.6)%	54,700	54,474	(226)	(0.4)%	
Power - Pumping	54,450	52,484	(1,966)	(3.6)%	72,600	64,312	(8,288)	(11.4)%	
Treatment	54,450	18,317	(36,133)	(66.4)%	72,600	72,600	-	- %	
Power - Treatment	285,525	316,802	31,277	11.0 %	380,700	422,402	41,702	11.0 %	
Vehicle Expense	45,000	44,751	(249)	(0.6)%	45,000	45,000	-	- %	
Maintenance	255,842	253,515	(2,327)	(0.9)%	279,100	279,100	-	- %	
Total Operating Expenditure	1,047,742	1,023,677	(24,065)	(2.3)%	1,311,300	1,323,107	11,807	0.9 %	
Non-Operating Expenditure									
Debenture - Interest	175,400	-	(175,400)	(100.0)%	175,400	94,087	(81,313)	(46.4)%	
Debenture - Principal	249,800	-	(249,800)	(100.0)%	249,800	249,800	-	- %	
Transfer to Capital Reserves	-	-	-	- %	132,500	132,500	-	- %	
Interest on Short-term Debt	-	-	-	- %	131,500	210,282	78,782	3.9 %	
Total Non-Operating Expenditure	425,200	-	(425,200)	(100.0)%	689,200	686,669	(2,531)	(0.4)%	
Total Expenditures	1,472,942	1,023,677	(449,265)	(30.5)%	2,000,500	2,009,776	9,276	0.5 %	
Surplus / (Deficit)	\$ 27,433	\$ 476,698	\$ 449,265	- %	\$ -	\$ -	\$ -	- %	

TO	Regional Sewer Committee
PREPARED BY	Katrina Roefs, CPA
MEETING DATE	March 13, 2025
SUBJECT	Regional Sewer 2025/26 Operating and Capital Budget

ORIGIN

- First introduction to Regional Sewer Committee

RECOMMENDATION

That Regional Sewer Committee recommend the Regional Sewer 2025/26 Operating and Capital Budget as attached to the March 13, 2025, Request for Decision to Partner Councils, Commission, or Senior Management, as applicable, for approval.

INTENT

For the Regional Sewer Committee to receive and consider the 2025/26 Operating and Capital budget and to recommend the budget to Town of Kentville Council, Village of New Minas Commission, and the Senior Management of PepsiCo. for approval.

DISCUSSION

Attached in Appendix A is the proposed operating and capital budget for Regional Sewer.

The Operating Budget has been prepared utilizing best estimates of planned expenditures. Key variances from prior year budgets include:

- Salaries & Benefits 15.1% increase: Adjusted in line with the main municipal budget to factor in non-union rate increases set out in policy [HR-06-019 Non-Union Salary Administration](#), unionized increases per the collective agreement, and an allowance for vacant positions. Additionally, one Director position has been reallocated away from the Public Works Department. One Treatment Plant Operator has been added with an expectation that they would spend 15% of their time (240 annual hours) at Regional. And finally, one Millwright Operator has been added with an expectation that they would spend a similar amount of time as existing operators at Regional.
- Support services have a modest increase of 5.9%, and represents Regional's share of the EPW shop overhead, operator training, clothing, supplies, and phones. With allocations of these items based on the percentage of hours (three-year average) spent at Regional.
- The budget for monitoring is decreasing 37.6% due to a reduction in the amount of advertising and public engagement planned, with the reduction in odor issues taking place.
- Power costs are increasing slightly to account for a Nova Scotia Power rate increase of 1.3% and the increased power consumption from aeration upgrades in cell 1 that requires more air at certain times, and by extension, more power.
- Vehicle costs are allocated from the main Public Works budget and are increasing due to rising insurance and maintenance costs, along with additional fleet units to support a growing workforce.
- Maintenance costs are increasing based on anticipated needs, and to account for a 40% share of contracted costs associated with Overall Direct Responsible Charge personnel.

Non operating expenditures include debt service and bridge financing for planned capital projects; contributions to depreciation reserve, and \$90,000 to fund study and consulting work as detailed in project 23-4402 Inflow and Infiltration (I&I) study as well as a Hydraulic Retention Time (HRT) study in the Regional system in 2025/26. The projects are carrying over in full from the 2024/25 budget. These expenditures are detailed in Appendix A.

Contribution calculations are slightly different than past years in that the debt service for debenture 44-A-1 will not be funded through contributions from Village of New Minas, as they utilized CCBF funds for their portion of the related project. Included in Appendix A is a chart breaking down the contributions by party.

The Capital Budget includes six projects with spending as detailed in Appendix B. Required capital expenditures within the Regional Sewer System over the last several years and included in the proposed 2025/26 capital budget will have a significant impact on required partner funding going forward through the debt service obligations and capital reserve contributions.

FINANCIAL IMPLICATIONS

- The Regional Sewer 2025/26 Operating and Capital Budget will form the basis of quarterly Partner contributions throughout fiscal 2025/26
- Partner shares are detailed in the attached Appendix A

STRATEGIC PLAN ALIGNMENT

	Strong Communities	
	Environmental Stewardship	
	Economic Development	
	Good Governance	
✓	Financial Sustainability	
	Other	

ALTERNATIVES

- The Regional Sewer Committee may opt not to recommend the proposed budget and provide specific input and guidance to staff on adjustments to the proposed budget.

IMPLEMENTATION

- The budget will be brought to Partner Councils, Commission, or Senior Management, as applicable for approval.
- Upon confirmation of approval from the Partners, the budget will be brought to the Council of the Municipality of the County of Kings for final approval.

ENGAGEMENT

- No formal public engagement at the utility level. The Regional Sewer Budget will be part of the public presentation of the Municipal Budget.

APPENDICES

- Appendix A: Proposed Regional Sewer Operating Budget 2025/26 Summary
- Appendix B: Regional Sewer Detailed Operating Budget
- Appendix C: Proposed Five Year Capital Plan
- Appendix D: 2025/26 Proposed Capital Project Sheets for Regional Sewer

APPROVALS

Tyler Honeywood, Manager of Financial Reporting	March 6, 2025
Greg Barr, Director of Finance & IT	March 6, 2025
Brad Carrigan, Director of EPW	March 6, 2025
Scott Conrod, Chief Administrative Officer	March 6, 2025

Appendix A - Proposed Regional Sewer Operating Budget 2025/26 Summary

Regional Sewer	Proposed Budget 2025/26	Approved Budget 2024/25	Change \$	Change %	Forecast Actual 2024/25	Actual 2023/24
Revenue	\$ 2,724,800	\$ 2,000,500	\$ 724,300	36.2 %	\$ 2,009,900	\$ -
Expenditures						
Salaries, Wages & Benefits	401,900	348,600	53,300	15.3 %	339,300	212,700
Materials, Supplies, Utilities	980,900	864,100	116,800	13.5 %	887,100	756,300
Purchased Services	100,600	98,600	2,000	2.0 %	96,800	80,200
Debt & Reserve Transfers	1,241,400	689,200	552,200	80.1 %	686,700	637,800
Total Expenditures	2,724,800	2,000,500	724,300	36.2 %	2,009,900	1,687,000
Surplus (Deficit)	\$ -	\$ -	\$ -	- %	\$ -	\$ -

Contribution Detail	Proposed Budget 2025/26			
	Operating Costs	Capital	MFC 44-A-1	Total
Town of Kentville	\$ 844,640	\$ 350,430	\$ 229,000	\$1,424,070
Village of New Minas	267,590	188,350	-	455,940
PepsiCo Canada	217,410	96,470	83,000	396,880
Total County of Kings	153,760	175,150	119,000	447,910
Total Contributions	\$ 1,483,400	\$ 810,400	\$ 431,000	\$2,724,800

Non-Operating Expenses	Proposed Budget 2025/26
Debt & Reserve Transfers	
Debt Service (Existing Debt)	\$ 251,000
Debt Service (44-A-1)	431,000
Bridge Financing	87,400
Contribution to Depreciation Reserve	382,000
Study and Consulting Work	90,000
Total	\$ 1,241,400



Appendix B – Regional Sewer Detailed Operating Budget

(in thousands) (,000)	2025/26 Budget Breakdown			Proposed Budget 2025/26	Forecast 2024/25	Approved Budget 2024/25	2024/25 Budget to Forecast		2025/26 Budget to 2024/25 Budget	
	Capital Total	Operating Collection	Operating Treatment				\$	%	\$	%
Revenue										
Operating										
Town of Kentville				-						
OpEx & Existing Debt	350.4	231.6	613.1							
44-A-1 Debt Service	228.9									
Total TOK				1,424.0	1,036.0	1,031.2	388.0	37.4%	392.8	38.1%
Village of New Minas										
OpEx & Existing Debt	188.4	87.4	180.2							
44-A-1 Debt Service	-	-	-							
Total Village of New Minas	188.4	87.4	180.2	455.9	368.4	366.7	87.5	23.8%	89.2	24.3%
PepsiCo Canada										
OpEx & Existing Debt	96.5	26.0	191.4							
44-A-1 Debt Service	82.8									
Total PepsiCo Canada	179.3	26.0	191.4	396.7	287.8	286.5	108.8	37.8%	110.2	38.5%
County of Kings										
OpEx & Existing Debt	175.2	46.4	107.4							
44-A-1 Debt Service	119.3									
Total County of Kings	294.5	46.4	107.4	448.2	317.6	316.1	130.6	41.1%	132.1	41.8%
Total Operating	1,429.8	478.7	1,272.3	2,724.8	2,009.9	2,000.5	714.9	35.6%	724.3	36.2%
Non-operating										
Transfer from operating reserve	-	-	-	-	-	-	-	0.0%	-	0.0%
Interest on operating reserve	-	-	-	-	-	-	-	0.0%	-	0.0%
Total non-operating	-	-	-	-	-	-	-	0.0%	-	0.0%
Total Revenue	1,429.8	478.7	1,272.3	2,724.8	2,009.9	2,000.5	714.9	35.6%	724.3	36.2%
Expenditures										
Operating										
Support Services	-	23.9	47.7	71.6	67.6	67.6	4.0	5.9%	4.0	5.9%
Insurance	-	8.7	17.5	26.2	24.2	26.0	2.0	8.3%	0.2	0.8%
Monitoring	-	5.5	2.8	8.3	2.9	13.3	5.4	186.2%	(5.0)	(37.6)%
Laboratory	-	-	4.1	4.1	5.8	5.8	(1.7)	(29.3)%	(1.7)	(29.3)%
Wages	-	112.7	225.5	338.2	284.8	293.9	53.4	18.8%	44.3	15.1%
Benefits	-	21.2	42.5	63.7	54.5	54.7	9.2	16.9%	9.0	16.5%
Power - Pumping	-	65.2	-	65.2	64.3	72.6	0.9	1.4%	(7.4)	(10.2)%
Treatment	-	-	74.4	74.4	72.6	72.6	1.8	2.5%	1.8	2.5%
Power - Treatment	-	-	427.9	427.9	422.4	380.7	5.5	1.3%	47.2	12.4%
Vehicle Expense	-	38.9	19.4	58.3	45.0	45.0	13.3	29.6%	13.3	29.6%
Maintenance	-	115.2	230.3	345.5	279.1	279.1	66.4	23.8%	66.4	23.8%
Total Operating	-	391.3	1,092.1	1,483.4	1,323.2	1,311.3	160.2	12.1%	172.1	13.1%
Non-operating										
Debt - Interest	26.1	1.1	25.0	26.000	94.1	175.4	(68.1)	(72.4)%	(149.4)	(85.2)%
Debt - 44-A-1 Interest	196.0		196.0	196.000						
Debt - Principal	225.0	25.0	200.0	225.000	249.8	249.8	(24.8)	(9.9)%	(24.8)	(9.9)%
Debt - 44-A-1 Principal	235.0		235.0	235.000						
Transfer to Depreciation Reserves	382.0	110.8	271.2	382.000	132.5	132.5	249.5	188.3%	249.5	188.3%
Consulting and Study Expense	90.0	90.0	-	90.000	-	-	90.0	0.0%	90.0	0.0%
Interest on Short-term Debt	87.4	-	87.4	87.400	210.3	131.5	(122.9)	(58.4)%	(44.1)	(33.5)%
Total non-operating	1,241.5	226.9	1,014.6	1,241.400	686.7	689.2	554.7	80.8%	552.2	80.1%
Total Expenditures	1,241.5	618.2	2,106.7	2,724.800	2,009.9	2,000.5	714.9	35.6%	724.3	36.2%
Surplus (Deficit)				-	-	-				

Appendix C – Proposed Five Year Capital Plan

Projects	Opening WIP	Actual		Budget					
		PY	CY	1	2	3	4	5	
		2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	
2025-26 project sheet input master 111324.xlsx									
14-4401	Regional Sewerlines	45,457	15,121	2,739,136					
	Replacement of sewer force mains from RG5 to Regional Sewer Plant			400,000					
23-4403	Regional Lift Station Upgrades	-	-	400,000					
	Emergency Generator			100,000					
	Wet Well Wizard (RG7)			50,000					
	Wet Well Wizard (RG6)				50,000				
	Monitoring Equipment			15,000					
	General Allowance			50,000	150,000	150,000	150,000	150,000	
	Grit Removal System RG2			1,110,000					
17-4401	Regional STP Aeration	679,318	5,290,578	221,804					
	Desludging Cells 3, 4, and 5			1,100,000					
	Emergency overflow weir & road			300,000					
	Regional Aeration			200,000					
23-4404	Regional STP Upgrades	-	-	45,000					
	Optimization studies; Pre-treatment			150,000					
	Rehabilitation of 4 overflow chambers & UV Light Replacements			250,000					
	General Allowance			50,000	50,000	50,000	150,000	50,000	
	Plant Equipment Upgrades			450,000					
23-4401	Regional Equipment	-	-	54,000					
	Security upgrades related to cameras and fencing			310,000					
	Ongoing program of equipment purchases				50,000	50,000	50,000	50,000	
23-4402	Regional Consulting & Studies	-	-	-					
	"I and I" Study			90,000					
Total		724,774	5,305,700	3,459,940	4,625,000	300,000	250,000	350,000	250,000
Project Financing									
	Capital Reserve	45,457	15,121	148,000	500,000	300,000	250,000	350,000	250,000
	Grant	-	-	1,683,680	1,532,500	-	-	-	-
	Debenture	679,318	5,290,578	1,628,260	2,592,500	-	-	-	-
Total		724,774	5,305,700	3,459,940	4,625,000	300,000	250,000	350,000	250,000
Reserve Continuity									
	Opening Balance	995,809	1,004,992	1,129,626	670,677	591,682	752,386	1,063,517	
	Contributions	669,700	736,670	810,337	891,371	1,069,645	1,283,574	1,540,289	
	Debt Service	(303,552)	(253,754)	(681,886)	(670,365)	(658,941)	(622,443)	(610,394)	
	Utilization	(204,040)	(148,000)	(500,000)	(300,000)	(250,000)	(350,000)	(250,000)	
	Bridge Financing	(152,925)	(210,282)	(87,400)					
Closing Balance		1,004,992	1,129,626	670,677	591,682	752,386	1,063,517	1,743,412	

Municipality of the County of Kings

Project Justification Sheet
2025/26 to 2029/30 Capital Budget & Forecast

ONGOING PROGRAM

NEW PROJECT

CARRYOVER PROJECT

PROJECT

REGIONAL SEWERLINES

GL ACCOUNT #

23-3-354-125

DEPARTMENT	Engineering & Public Works	PROJECT #	14-4401	PRIORITY	High	ASSET CATEGORY	Sewer lines
NEW OR REPLACEMENT ASSET	Replacement	LEVEL OF SERVICE IMPACT	Maintain level of service	EXPECTED LIFE	40	years	

DESCRIPTION
Ongoing replacement of Regional sewer lines.

2025/26 project involves the replacement of a portion of the Regional sewer forcemain between RG5 and the Regional Sewage Treatment Plant (RSTP).

NEED FOR PROJECT
Sections of ductile iron forcemain were installed in 1978/79. They are included in the Municipality's asset management plan for future replacement. The 18" force main between RG5 and the Regional Sewage Treatment Plant (RSTP) carries sewage flow from Coldbrook, Meadowview, and a portion of the Town of Kentville (including the Kentville Industrial Park) to the RSTP. Project has previously been evaluated as multi-year construction but has been escalated due to recent breaks.

CARRYOVER DETAIL
The replacement of Regional forcemain (from RG5 to Eaves Hollow) will likely see a small portion of this work carry forward into 2025/26, due to seasonal influences.

FUNDING SOURCE DETAIL
MCGP Grant \$200,000; Debt \$200,000

The Regional Sewer Committee was approved for \$3,200,000 of grant funding to support this project. Tendered cost savings have resulted in availability of excess grant funds that have been allocated to other Regional Sewer capital projects. Annual capital contributions, including allocations to the Regional Sewer Depreciation Reserve, are shared among the Regional Sewer Partners proportional to their share of the designed system demand. The Municipality maintains the reserve on behalf of the Partners and provides approximately 22% of the total annual capital contribution.

STRATEGIC PLAN ALIGNMENT

GOOD GOVERNANCE	<input type="checkbox"/>
ENVIRONMENTAL STEWARDSHIP	<input type="checkbox"/>
ECONOMIC DEVELOPMENT	<input type="checkbox"/>
STRONG COMMUNITIES	<input type="checkbox"/>
FINANCIAL SUSTAINABILITY	<input type="checkbox"/>
SUPPORTS A STRATEGIC PROJECT	<input type="checkbox"/>
SUPPORTS A CORE PROGRAM ENHANCEMENT	<input type="checkbox"/>
N/A - EXPLAIN WHY PROJECT SHOULD BE CONSIDERED	<input checked="" type="checkbox"/>

OTHER CONSIDERATIONS

MAINTAINS A CORE PROGRAM OR SERVICE	<input checked="" type="checkbox"/>
MANDATED BY LAW OR CONTRACT	<input type="checkbox"/>
REPLACING END OF LIFE ASSET	<input checked="" type="checkbox"/>
REQUIRED FOR HEALTH & SAFETY	<input checked="" type="checkbox"/>
ENVIRONMENTAL IMPACT - PREVENTION OR MITIGATION	<input checked="" type="checkbox"/>
SIGNIFICANT IMPACT IF DEFERRED	<input checked="" type="checkbox"/>
IMPACTS OTHER GOVERNMENTS	<input checked="" type="checkbox"/>
PREVIOUSLY COMMITTED	<input checked="" type="checkbox"/>

ESTIMATED IMPACT ON OPERATING BUDGET

	1st Year	2nd Year
GOODS & SERVICES	-	-
OTHER	-	-
DIRECT COST	-	-
FINANCING COST	20,500	20,500
DEPRECIATION	10,000	10,000
INDIRECT COST	30,500	30,500
TOTAL COST	30,500	30,500
REVENUE	-	-
NET COST	30,500	30,500

ESTIMATED PROJECT COST

	Prior Year Budget	Yearend Forecast	Remaining Budget
Engineering/Consulting	96,500	-	96,500
Equipment	-	-	-
Construction	6,088,379	2,739,136	3,349,243
TOTAL	6,184,879	2,739,136	3,445,743

FUNDING SOURCE

	Prior Year Budget	Yearend Forecast	Remaining Budget
From Operating	-	-	-
Fed/Prov Grants	3,100,000	1,333,818	1,766,182
Reserves - Capital	84,879	71,500	13,379
Reserves - Operating	-	-	-
Debt	3,000,000	1,333,818	1,666,182
Other Revenue	-	-	-
TOTAL	6,184,879	2,739,136	3,445,743

FIVE YEAR PROJECT FORECAST

	Carryover	2025/26	2026/27	2027/28	2028/29	2029/30	Total
Carryover	-	-	-	-	-	-	-
2025/26	-	-	-	-	-	-	-
2026/27	-	-	-	-	-	-	-
2027/28	-	-	-	-	-	-	-
2028/29	-	-	-	-	-	-	-
2029/30	-	-	-	-	-	-	-
TOTAL	400,000	-	-	-	-	-	400,000

Municipality of the County of Kings

Project Justification Sheet
2025/26 to 2029/30 Capital Budget & Forecast

ONGOING PROGRAM

NEW PROJECT

CARRYOVER PROJECT

PROJECT

REGIONAL STP AERATION AND DESLUDGING

GL ACCOUNT #

23-3-354-130

DEPARTMENT	Engineering & Public Works	PROJECT #	17-4401	PRIORITY	High	ASSET CATEGORY	STP lagoons
NEW OR REPLACEMENT ASSET	Replacement	LEVEL OF SERVICE IMPACT	Maintain level of service	EXPECTED LIFE	40	years	

DESCRIPTION
Continuation of desludging and aeration is required for lagoon optimization and to extend useful life.

For 2025/26, continuation of bathymetric mapping of all Regional lagoons; continued desludging; upgrades to service roads to facilitate maintenance and upgrades.

NEED FOR PROJECT
Sludge management is a necessary element of lagoon-based treatment plants and is required to support appropriate retention times and to achieve environmentally compliant plant effluent.

As the Cell 1 was temporarily taken out of services for maintenance, flows were bypassed to lagoon 2, which, in turn, accelerated sludge accumulation within that cell.

CARRYOVER DETAIL
Upgrading of lagoon exterior and interior service roads is expected to continue into 2025/26.

FUNDING SOURCE DETAIL
MCGP Grant \$675,000; Debt \$925,000

A portion of remaining grant funding originally obtained for project #14-4401 has been reallocated to this project. Debt service obligations are shared among the Regional Sewer Partners proportional to their share of the designed system demand. The Municipality maintains debt and reserves on behalf of the Partners and provides approximately 22% of the total annual capital contribution.

STRATEGIC PLAN ALIGNMENT

GOOD GOVERNANCE	<input type="checkbox"/>
ENVIRONMENTAL STEWARDSHIP	<input type="checkbox"/>
ECONOMIC DEVELOPMENT	<input type="checkbox"/>
STRONG COMMUNITIES	<input type="checkbox"/>
FINANCIAL SUSTAINABILITY	<input type="checkbox"/>
SUPPORTS A STRATEGIC PROJECT	<input type="checkbox"/>
SUPPORTS A CORE PROGRAM ENHANCEMENT	<input type="checkbox"/>
N/A - EXPLAIN WHY PROJECT SHOULD BE CONSIDERED	<input checked="" type="checkbox"/>

OTHER CONSIDERATIONS

MAINTAINS A CORE PROGRAM OR SERVICE	<input checked="" type="checkbox"/>
MANDATED BY LAW OR CONTRACT	<input type="checkbox"/>
REPLACING END OF LIFE ASSET	<input checked="" type="checkbox"/>
REQUIRED FOR HEALTH & SAFETY	<input type="checkbox"/>
ENVIRONMENTAL IMPACT - PREVENTION OR MITIGATION	<input checked="" type="checkbox"/>
SIGNIFICANT IMPACT IF DEFERRED	<input checked="" type="checkbox"/>
IMPACTS OTHER GOVERNMENTS	<input checked="" type="checkbox"/>
PREVIOUSLY COMMITTED	<input type="checkbox"/>

ESTIMATED IMPACT ON OPERATING BUDGET

	1st Year	2nd Year
GOODS & SERVICES	-	-
OTHER	-	-
DIRECT COST	-	-
FINANCING COST	94,813	94,813
DEPRECIATION	40,000	40,000
INDIRECT COST	134,813	134,813
TOTAL COST	134,813	134,813
REVENUE	-	-
NET COST	134,813	134,813

ESTIMATED PROJECT COST	PRIOR YEAR PROJECTS		
	Prior Year Budget	Yearend Forecast	Remaining Budget
Engineering/Consulting	50,000	-	50,000
Equipment	-	-	-
Construction	1,550,874	221,804	1,329,070
TOTAL	1,600,874	221,804	1,379,070
FUNDING SOURCE			
From Operating	-	-	-
Fed/Prov Grants	127,363	127,363	-
Reserves - Capital	-	-	-
Reserves - Operating	-	-	-
Debt	1,473,512	94,442	1,379,070
Other Revenue	-	-	-
TOTAL	1,600,874	221,804	1,379,070

Carryover	FIVE YEAR PROJECT FORECAST						Total
	2025/26	2026/27	2027/28	2028/29	2029/30		
-	50,000	-	-	-	-	50,000	
-	-	-	-	-	-	-	
300,000	1,250,000	-	-	-	-	1,550,000	
300,000	1,300,000	-	-	-	-	1,600,000	
-	-	-	-	-	-	-	
150,000	525,000	-	-	-	-	675,000	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
150,000	775,000	-	-	-	-	925,000	
-	-	-	-	-	-	-	
300,000	1,300,000	-	-	-	-	1,600,000	

Municipality of the County of Kings

Project Justification Sheet
2025/26 to 2029/30 Capital Budget & Forecast

ONGOING PROGRAM

NEW PROJECT

CARRYOVER PROJECT

PROJECT

REGIONAL EQUIPMENT

GL ACCOUNT #

23-3-354-118

DEPARTMENT	Engineering & Public Works	PROJECT #	23-4401	PRIORITY	Medium	ASSET CATEGORY	Other equipment
NEW OR REPLACEMENT ASSET	New and replacement	LEVEL OF SERVICE IMPACT	Maintain level of service	EXPECTED LIFE	10	years	

DESCRIPTION
Ongoing program for equipment purchases to support the operations of the Regional Sewer System.

For 2025/26, the equipment purchases include security upgrades related to cameras and fencing.

NEED FOR PROJECT
Provides for the necessary equipment for reliable and efficient treatment operations.

CARRYOVER DETAIL
Security camera upgrades will carry forward into 2025/26.

FUNDING SOURCE DETAIL
23-4-461-000 Regional Sewer Depreciation Reserve \$10,000; Debt \$300,000

Annual capital contributions, including allocations to the Regional Sewer Depreciation Reserve, are shared among the Regional Sewer Partners proportional to their share of the designed system demand. The Municipality maintains debt and reserves on behalf of the Partners and provides approximately 22% of the total annual capital contribution.

STRATEGIC PLAN ALIGNMENT

GOOD GOVERNANCE	<input type="checkbox"/>
ENVIRONMENTAL STEWARDSHIP	<input type="checkbox"/>
ECONOMIC DEVELOPMENT	<input type="checkbox"/>
STRONG COMMUNITIES	<input type="checkbox"/>
FINANCIAL SUSTAINABILITY	<input type="checkbox"/>
SUPPORTS A STRATEGIC PROJECT	<input type="checkbox"/>
SUPPORTS A CORE PROGRAM ENHANCEMENT	<input type="checkbox"/>
N/A - EXPLAIN WHY PROJECT SHOULD BE CONSIDERED	<input checked="" type="checkbox"/>

OTHER CONSIDERATIONS

MAINTAINS A CORE PROGRAM OR SERVICE	<input checked="" type="checkbox"/>
MANDATED BY LAW OR CONTRACT	<input type="checkbox"/>
REPLACING END OF LIFE ASSET	<input type="checkbox"/>
REQUIRED FOR HEALTH & SAFETY	<input type="checkbox"/>
ENVIRONMENTAL IMPACT - PREVENTION OR MITIGATION	<input checked="" type="checkbox"/>
SIGNIFICANT IMPACT IF DEFERRED	<input type="checkbox"/>
IMPACTS OTHER GOVERNMENTS	<input checked="" type="checkbox"/>
PREVIOUSLY COMMITTED	<input type="checkbox"/>

ESTIMATED IMPACT ON OPERATING BUDGET

	1st Year	2nd Year
GOODS & SERVICES	-	-
OTHER	-	-
DIRECT COST	-	-
FINANCING COST	45,750	45,750
DEPRECIATION	31,000	36,000
INDIRECT COST	76,750	81,750
TOTAL COST	76,750	81,750
REVENUE	-	-
NET COST	76,750	81,750

ESTIMATED PROJECT COST	PRIOR YEAR PROJECTS		
	Prior Year Budget	Yearend Forecast	Remaining Budget
Engineering/Consulting	-	-	-
Equipment	54,000	54,000	-
Construction	10,000	-	10,000
TOTAL	64,000	54,000	10,000
FUNDING SOURCE			
From Operating	-	-	-
Fed/Prov Grants	-	-	-
Reserves - Capital	64,000	54,000	10,000
Reserves - Operating	-	-	-
Debt	-	-	-
Other Revenue	-	-	-
TOTAL	64,000	54,000	10,000

Carryover	FIVE YEAR PROJECT FORECAST					
	2025/26	2026/27	2027/28	2028/29	2029/30	Total
-	-	-	-	-	-	-
-	300,000	50,000	50,000	50,000	50,000	500,000
10,000	-	-	-	-	-	10,000
10,000	300,000	50,000	50,000	50,000	50,000	510,000
-	-	-	-	-	-	-
-	-	-	-	-	-	-
10,000	-	50,000	50,000	50,000	50,000	210,000
-	-	-	-	-	-	-
-	300,000	-	-	-	-	300,000
-	-	-	-	-	-	-
10,000	300,000	50,000	50,000	50,000	50,000	510,000

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ONGOING PROGRAM

NEW PROJECT

CARRYOVER PROJECT

PROJECT REGIONAL CONSULTING AND STUDIES

GL ACCOUNT # 23-3-354-119

DEPARTMENT	Engineering & Public Works	PROJECT #	23-4402	PRIORITY	Medium	ASSET CATEGORY	Studies (expensed)
NEW OR REPLACEMENT ASSET	Studies only	LEVEL OF SERVICE IMPACT	Maintain level of service	EXPECTED LIFE	0 years		

DESCRIPTION
The Municipality, with the Regional Sewer Partners, will engage a consultant to conduct an Inflow and Infiltration (I&I) study as well as a Hydraulic Retention Time (HRT) study in the Regional system in 2025/26.

NEED FOR PROJECT
More information is needed to assess the longer-term needs of the Regional trunk collection system given the anticipated population growth. Information such as the type of potential development, areas subject to additional influent, and sources of existing I&I will be gathered and analyzed. This information will inform whether force mains and lift station wet wells need to be enlarged, and long-term upgrades to the Regional STP.

CARRYOVER DETAIL
I&I studies were previously deferred due to priority given to the forcemain replacement project.

FUNDING SOURCE DETAIL
23-4-461-000 Regional Sewer Depreciation Reserve \$90,000

Annual capital contributions, including allocations to the Regional Sewer Depreciation Reserve, are shared among the Regional Sewer Partners proportional to their share of the designed system demand. The Municipality maintains debt and reserves on behalf of the Partners and provides approximately 22% of the total annual capital contribution.

STRATEGIC PLAN ALIGNMENT

GOOD GOVERNANCE	<input type="checkbox"/>
ENVIRONMENTAL STEWARDSHIP	<input checked="" type="checkbox"/>
ECONOMIC DEVELOPMENT	<input type="checkbox"/>
STRONG COMMUNITIES	<input type="checkbox"/>
FINANCIAL SUSTAINABILITY	<input type="checkbox"/>
SUPPORTS A STRATEGIC PROJECT	<input type="checkbox"/>
SUPPORTS A CORE PROGRAM ENHANCEMENT	<input type="checkbox"/>
N/A - EXPLAIN WHY PROJECT SHOULD BE CONSIDERED	<input checked="" type="checkbox"/>

OTHER CONSIDERATIONS

MAINTAINS A CORE PROGRAM OR SERVICE	<input checked="" type="checkbox"/>
MANDATED BY LAW OR CONTRACT	<input type="checkbox"/>
REPLACING END OF LIFE ASSET	<input type="checkbox"/>
REQUIRED FOR HEALTH & SAFETY	<input type="checkbox"/>
ENVIRONMENTAL IMPACT - PREVENTION OR MITIGATION	<input type="checkbox"/>
SIGNIFICANT IMPACT IF DEFERRED	<input type="checkbox"/>
IMPACTS OTHER GOVERNMENTS	<input checked="" type="checkbox"/>
PREVIOUSLY COMMITTED	<input type="checkbox"/>

ESTIMATED IMPACT ON OPERATING BUDGET

	1st Year	2nd Year
GOODS & SERVICES	-	-
OTHER	-	-
DIRECT COST	-	-
FINANCING COST	-	-
DEPRECIATION	-	-
INDIRECT COST	-	-
TOTAL COST	-	-
REVENUE	-	-
NET COST	-	-

ESTIMATED PROJECT COST

	PRIOR YEAR PROJECTS		
	Prior Year Budget	Yearend Forecast	Remaining Budget
Engineering/Consulting	-	-	-
Equipment	-	-	-
Construction	-	-	-
TOTAL	-	-	-
FUNDING SOURCE			
From Operating	-	-	-
Fed/Prov Grants	-	-	-
Reserves - Capital	-	-	-
Reserves - Operating	-	-	-
Debt	-	-	-
Other Revenue	-	-	-
TOTAL	-	-	-

FIVE YEAR PROJECT FORECAST

	Carryover	2025/26	2026/27	2027/28	2028/29	2029/30	Total
Engineering/Consulting	-	90,000	-	-	-	-	90,000
Equipment	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-
TOTAL	-	90,000	-	-	-	-	90,000
From Operating	-	-	-	-	-	-	-
Fed/Prov Grants	-	-	-	-	-	-	-
Reserves - Capital	-	90,000	-	-	-	-	90,000
Reserves - Operating	-	-	-	-	-	-	-
Debt	-	-	-	-	-	-	-
Other Revenue	-	-	-	-	-	-	-
TOTAL	-	90,000	-	-	-	-	90,000

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ONGOING PROGRAM

NEW PROJECT

CARRYOVER PROJECT

PROJECT

REGIONAL LIFT STATION UPGRADES

GL ACCOUNT #

23-3-354-123

DEPARTMENT	Engineering & Public Works	PROJECT #	23-4403	PRIORITY	Medium	ASSET CATEGORY	Lift stations
NEW OR REPLACEMENT ASSET	Replacement	LEVEL OF SERVICE IMPACT	Maintain level of service	EXPECTED LIFE	20	years	

DESCRIPTION
Ongoing program to replace and/or upgrade end-of-life lift stations, pumps, and electrical panels within the Regional Sewer system. Over the 5-year capital plan Regional lift stations RG5 and RG6 have been identified for pump upgrades, along with a pilot program to install Wet Well Wizards in RG3, RG7, and RG6 to improve aeration to break up fats.

Requirement for grit removal near RG2 has been established to decrease the solids loading and improve operation of the related forcemain and lift stations.

NEED FOR PROJECT
The RSTP has 8 lift stations that require major upgrade or replacement. Lift stations are identified for replacement based on repair & maintenance history, safety concerns, as well as, among other factors, opportunities to reduce power consumption.

CARRYOVER DETAIL
Purchase and installation of lift station monitoring equipment will carry forward to 2025/26.

FUNDING SOURCE DETAIL
MCGP Grant \$407,500; Debt \$917,500

A portion of remaining grant funding originally obtained for project #14-4401 has been reallocated to this project. Annual capital contributions, including allocations to the Regional Sewer Depreciation Reserve, are shared among the Regional Sewer Partners proportional to their share of the designed system demand. The Municipality maintains debt and reserves on behalf of the Partners and provides approximately 22% of the total annual capital contribution.

STRATEGIC PLAN ALIGNMENT

GOOD GOVERNANCE	<input type="checkbox"/>
ENVIRONMENTAL STEWARDSHIP	<input checked="" type="checkbox"/>
ECONOMIC DEVELOPMENT	<input type="checkbox"/>
STRONG COMMUNITIES	<input type="checkbox"/>
FINANCIAL SUSTAINABILITY	<input type="checkbox"/>
SUPPORTS A STRATEGIC PROJECT	<input type="checkbox"/>
SUPPORTS A CORE PROGRAM ENHANCEMENT	<input type="checkbox"/>
N/A - EXPLAIN WHY PROJECT SHOULD BE CONSIDERED	<input type="checkbox"/>

OTHER CONSIDERATIONS

MAINTAINS A CORE PROGRAM OR SERVICE	<input checked="" type="checkbox"/>
MANDATED BY LAW OR CONTRACT	<input type="checkbox"/>
REPLACING END OF LIFE ASSET	<input type="checkbox"/>
REQUIRED FOR HEALTH & SAFETY	<input type="checkbox"/>
ENVIRONMENTAL IMPACT - PREVENTION OR MITIGATION	<input checked="" type="checkbox"/>
SIGNIFICANT IMPACT IF DEFERRED	<input type="checkbox"/>
IMPACTS OTHER GOVERNMENTS	<input checked="" type="checkbox"/>
PREVIOUSLY COMMITTED	<input type="checkbox"/>

ESTIMATED IMPACT ON OPERATING BUDGET

	1st Year	2nd Year
GOODS & SERVICES	-	-
OTHER	-	-
DIRECT COST	-	-
FINANCING COST	139,919	139,919
DEPRECIATION	66,250	76,250
INDIRECT COST	206,169	216,169
TOTAL COST	206,169	216,169
REVENUE	-	-
NET COST	206,169	216,169

ESTIMATED PROJECT COST	PRIOR YEAR PROJECTS		
	Prior Year Budget	Yearend Forecast	Remaining Budget
Engineering/Consulting	50,000	50,000	-
Equipment	265,000	265,000	-
Construction	100,000	85,000	15,000
TOTAL	415,000	400,000	15,000
FUNDING SOURCE			
From Operating	-	-	-
Fed/Prov Grants	207,500	200,000	7,500
Reserves - Capital	-	-	-
Reserves - Operating	-	-	-
Debt	207,500	200,000	7,500
Other Revenue	-	-	-
TOTAL	415,000	400,000	15,000

Carryover	FIVE YEAR PROJECT FORECAST						Total
	2025/26	2026/27	2027/28	2028/29	2029/30		
-	160,000	50,000	50,000	50,000	50,000	360,000	
-	50,000	50,000	-	-	-	100,000	
15,000	1,100,000	100,000	100,000	100,000	100,000	1,515,000	
15,000	1,310,000	200,000	150,000	150,000	150,000	1,975,000	
-	-	-	-	-	-	-	
7,500	400,000	-	-	-	-	407,500	
-	-	200,000	150,000	150,000	150,000	650,000	
7,500	910,000	-	-	-	-	917,500	
-	-	-	-	-	-	-	
15,000	1,310,000	200,000	150,000	150,000	150,000	1,975,000	

Municipality of the County of Kings

Project Justification Sheet
2025/26 to 2029/30 Capital Budget & Forecast

ONGOING PROGRAM



NEW PROJECT



CARRYOVER PROJECT



PROJECT REGIONAL STP UPGRADES

GL ACCOUNT # 23-3-354-124

DEPARTMENT	Engineering & Public Works	PROJECT #	23-4404	PRIORITY	Medium	ASSET CATEGORY	Studies (expensed)
NEW OR REPLACEMENT ASSET	Studies only	LEVEL OF SERVICE IMPACT	Maintain level of service	EXPECTED LIFE	0 years		

DESCRIPTION
Engineering preliminary design studies will be commissioned relative to Regional plant optimization and environmental impact. These studies will focus on which technologies and processes will support long-term compliance. These predesign studies will determine future requirements.

In addition to the predesign studies, 2025/26 work will also include rehabilitation of 4 overflow chambers and purchase/installation of replacement UV bulbs.

NEED FOR PROJECT
Optimizing processes within the RSTP will support environmental compliance.

CARRYOVER DETAIL
Regional STP optimization predesign studies will carry forward into 2025/26 and will include environmental impact assessment within the scope of design study. Plant upgrades planned for 2024/25 will also carry over.

FUNDING SOURCE DETAIL
23-4-461-000 Regional Sewer Depreciation Reserve \$400,000; MCGP Grant \$250,000; Debt \$250,000

A portion of remaining grant funding originally obtained for project #14-4401 has been reallocated to this project. Annual capital contributions, including allocations to the Regional Sewer Depreciation Reserve, are shared among the Regional Sewer Partners proportional to their share of the designed system demand. The Municipality maintains debt and reserves on behalf of the Partners and provides approximately 22% of the total annual capital contribution.

STRATEGIC PLAN ALIGNMENT

GOOD GOVERNANCE	<input type="checkbox"/>
ENVIRONMENTAL STEWARDSHIP	<input type="checkbox"/>
ECONOMIC DEVELOPMENT	<input type="checkbox"/>
STRONG COMMUNITIES	<input type="checkbox"/>
FINANCIAL SUSTAINABILITY	<input type="checkbox"/>
SUPPORTS A STRATEGIC PROJECT	<input type="checkbox"/>
SUPPORTS A CORE PROGRAM ENHANCEMENT	<input type="checkbox"/>
N/A - EXPLAIN WHY PROJECT SHOULD BE CONSIDERED	<input checked="" type="checkbox"/>

OTHER CONSIDERATIONS

MAINTAINS A CORE PROGRAM OR SERVICE	<input checked="" type="checkbox"/>
MANDATED BY LAW OR CONTRACT	<input type="checkbox"/>
REPLACING END OF LIFE ASSET	<input type="checkbox"/>
REQUIRED FOR HEALTH & SAFETY	<input type="checkbox"/>
ENVIRONMENTAL IMPACT - PREVENTION OR MITIGATION	<input type="checkbox"/>
SIGNIFICANT IMPACT IF DEFERRED	<input type="checkbox"/>
IMPACTS OTHER GOVERNMENTS	<input checked="" type="checkbox"/>
PREVIOUSLY COMMITTED	<input type="checkbox"/>

ESTIMATED IMPACT ON OPERATING BUDGET

	1st Year	2nd Year
GOODS & SERVICES	-	-
OTHER	-	-
DIRECT COST	-	-
FINANCING COST	38,125	38,125
DEPRECIATION	40,000	45,000
INDIRECT COST	78,125	83,125
TOTAL COST	78,125	83,125
REVENUE	-	-
NET COST	78,125	83,125

PRIOR YEAR PROJECTS

ESTIMATED PROJECT COST	Prior Year Budget	Yearend Forecast	Remaining Budget
Engineering/Consulting Equipment	150,000	-	150,000
Construction	395,000	45,000	350,000
TOTAL	545,000	45,000	500,000

FUNDING SOURCE

	Prior Year Budget	Yearend Forecast	Remaining Budget
From Operating	-	-	-
Fed/Prov Grants	272,500	22,500	250,000
Reserves - Capital	272,500	22,500	250,000
Reserves - Operating	-	-	-
Debt	-	-	-
Other Revenue	-	-	-
TOTAL	545,000	45,000	500,000

FIVE YEAR PROJECT FORECAST

	Carryover	2025/26	2026/27	2027/28	2028/29	2029/30	Total
Engineering/Consulting Equipment	150,000	-	-	-	-	-	150,000
Construction	-	150,000	50,000	50,000	150,000	50,000	450,000
TOTAL	150,000	150,000	50,000	50,000	150,000	50,000	600,000
From Operating	-	-	-	-	-	-	-
Fed/Prov Grants	-	-	-	-	-	-	-
Reserves - Capital	250,000	-	-	-	-	-	250,000
Reserves - Operating	250,000	150,000	50,000	50,000	150,000	50,000	700,000
Debt	-	-	-	-	-	-	-
Other Revenue	-	250,000	-	-	-	-	250,000
TOTAL	500,000	400,000	50,000	50,000	150,000	50,000	1,200,000