

Combined WWH Sewer Rate Study
Sewer Rate Model

Prepared By

G. A. Isenor Consulting Limited

in Association with

Blaine S. Rooney Consulting Limited

04-Jan-24

INPUTS REQUIRED FOR RATE CALCULATION

The following Inputs are required

Table 1-1

(a)	Assumed Inflation Rate	3%	Per Year
(b)	Current Year	2022/23	
	Test Years	2023/24 2024/25 2025/26 2026/27	
(c)	Estimated Annual Growth Rate	0.00%	
(d)	Estimated Unmetered Production Rate	23	cubic meters per month
(e)	Number of Customers by Class/Meter Size for Current Year		
	Unmetered	124	15
	15mm - 5/8"	3832	
	19 mm - 3/4"	55	
	25 mm - 1"	48	
	37 mm - 1.5"	19	
	50 mm - 2"	35	
	75 mm - 3 "	6	
	100 mm - 4"	4	
	150 mm - 6"	0	
	200 mm - 8"	0	
(f)	Estimated Decrease in Consumption per customer from previous year		
	Year	Decrease (%)	
	2023	1%	
	2024	1%	
	2025	1%	
	2026	1%	
	2027	1%	
(f)	Effluent Flow by Customer Class/Meter Size for Current Year		
	(cubic meters)		
	Unmetered	16,120	
	15mm - 5/8"	525,812	
	19 mm - 3/4"	26,680	
	25 mm - 1"	32,694	
	37 mm - 1.5"	30,080	
	50 mm - 2"	157,997	
	75 mm - 3 "	27,066	
	100 mm - 4"	30,068	
	150 mm - 6"	0	
	200 mm - 8"	0	
	Credit for water that is not sent to Sewer	-	
(g)	Long Term Interest Rate on Borrowing	6.00%	

Table 2-1

Combined WWH Sewer Rate Study						
Comparative Statement of Operations						
Fiscal Years ending March 31st						
	2021/22 (Actual)	2022/23 (Actual)	2023/24 (Projected)	Projection Using Current Rates		
				2024/25 (Test)	2025/26 (Test)	2026/27 (Test)
OPERATING REVENUES						
WEST HANTS						
Sewer Rate West Hants	1,183,918	1,186,564	1,193,994	1,201,424	1,208,854	1,216,284
Other revenue - West Hants	3,049	0	3,286	3,385	3,486	3,591
WINDSOR						
Sewer Rate	960,331	959,968	1,030,000	1,030,000	1,030,000	1,030,000
Leachate Treatment Revenue		0	39,500	45,500	56,000	59,000
West Hants Treatment Revenue		0	0	0	0	0
Other Revenue	3,887	4,000	4,000	4,000	4,000	4,000
Total	2,151,185	2,150,532	2,270,780	2,284,308	2,302,340	2,312,874
OPERATING EXPENDITURES						
Sewage Collection	20,744	64,500	69,500	71,585	73,733	75,945
Sewage Lift Stations	153,198	134,771	155,587	164,688	171,317	178,421
Sewage Treatment West Hants	109,503	106,000	121,150	127,231	131,048	134,979
Sewage Treatment - Lagoon Drive	99,812	84,830	89,160	93,780	96,731	99,633
Sewage Treatment - Wentworth Road	61,229	61,814	78,250	81,796	84,678	87,218
Administration and General	989,701	1,006,489	1,001,703	1,024,598	1,055,810	1,089,324
Capital Reserve Contribution Windsor	0	180,444	216,687	281,706	354,083	381,951
Capital Reserve Contribution West Hants	253,224	340,305	361,945	412,868	484,120	539,691
Taxes		0	0	0	0	0
Total	1,687,411	1,979,153	2,093,982	2,258,251	2,451,519	2,587,163
OPERATING PROFIT (LOSS)	463,774	171,379	176,798	26,057	-149,179	-274,289
NON-OPERATING REVENUES						
Interest and other income	0	0	0	0	0	0
Contract Services	0	0	0	0	0	0
Sludge Handling	0	0	0	0	0	0
Transfer from Depreciaton Fund	0	0	0	0	0	0
Other - Capital Reserve Reduction	0	0	0	0	0	0
Total	0	0	0	0	0	0
NON-OPERATING EXPENDITURES						
WEST HANTS						
Principal on Existing Debt	91,667	91,667	108,867	108,867	156,137	156,137
Interest on Existing Debt	19,022	26,290	13,278	13,278	15,479	15,479
New Debt - Principal (Current Year)		0	0	0	0	0
New Debt - Interest (Current Year)		0	0	0	0	0
New Debt - Principal (Test Year 1)			0	0	0	0
New Debt - Interest (Test Year 1)			0	0	0	0
New Debt - Principal (Test Year 2)				0	0	0
New Debt - Interest (Test Year 2)				0	0	0
New Debt - Principal (Test Year 3)					-	-
New Debt - Interest (Test Year 3)					-	-
New Debt - Principal Test Year 4)						-
New Debt - Interest (Test Year 4)						-
Capital out of Revenue -Sewer Equipment	0	0	0	0	0	0
Capital out of Revenue - Sewer Renewal	0	0	0	0	0	0
Other	0	0	0	0	0	0
Total West Hants	110,689	117,957	122,145	122,145	171,616	171,616
WINDSOR						
Principal on Existing Debt - Windsor	241,729	253,648	210,950	260,293	368,293	368,293
Interest on Existing Debt - Windsor	112,584	104,420	97,264	99,562	104,586	104,586
New Debt - Principal and Interest			35,669	35,669	35,669	35,669
New Debt - Principal and Interest				109,344	109,344	109,344
New Debt - Principal and Interest					266,087	266,087
New Debt - Principal and Interest						120,757
Short Term Borrowing						
Capital out of Revenue	0	0	0	8,500	10,000	9,000
Other	0	0	0	0	0	0
Total	465,002	476,025	466,028	635,513	1,065,595	1,185,352
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	-1,228	-304,646	-289,231	-609,456	-1,214,774	#####

Table 3-1

Combined WWH Sewer Rate Study					
Statement of Operating Expenditures and Revenue Requirements					
	2022/23 (Actual)	2023/24 (Projected)	2024/25 (Test)	2025/26 (Test)	2026/27 (Test)
OPERATING EXPENDITURES					
Sewage Collection	64,500	69,500	71,585	73,733	75,945
Sewage Lift Stations	134,771	155,587	164,688	171,317	178,421
Sewage Treatment West Hants	106,000	121,150	127,231	131,048	134,979
Sewage Treatment - Lagoon Drive	84,830	89,160	93,780	96,731	99,633
Sewage Treatment - Wentworth Road	61,814	78,250	81,796	84,678	87,218
Administration and General	1,006,489	1,001,703	1,024,598	1,055,810	1,089,324
Capital Reserve Contribution Windsor	180,444	216,687	281,706	354,083	381,951
Capital Reserve Contribution West Hants	340,305	361,945	412,868	484,120	539,691
Taxes	0	0	0	0	0
Total	1,979,153	2,093,982	2,258,251	2,451,519	2,587,163
ADD NON-OPERATING EXPENDITURES					
Non-Operating Expenditures - WEST HANTS	117,957	122,145	122,145	171,616	171,616
Debt Charges - Principal	253,648	210,950	260,293	368,293	368,293
Debt Charges - Interest	104,420	97,264	99,562	104,586	104,586
New Debt - Principal and Interest	0	35,669	35,669	35,669	35,669
New Debt - Principal and Interest	0	0	109,344	109,344	109,344
New Debt - Principal and Interest	0	0	0	266,087	266,087
New Debt - Principal and Interest	0	0	0	0	120,757
Short Term Borrowing	0	0	0	0	0
Capital out of Revenue	0	0	8,500	10,000	9,000
Other	0	0	0	0	0
Total	476,025	466,028	635,513	1,065,595	1,185,352
LESS NON-OPERATING REVENUES					
Interest and other income	0	0	0	0	0
Contract Services	0	0	0	0	0
Sludge Handling	0	0	0	0	0
Transfer from Depreciation Fund	0	0	0	0	0
Other	0	0	0	0	0
Total	0	0	0	0	0
LESS OTHER OPERATING REVENUE					
Leachate Treatment Revenue	0	39,500	45,500	56,000	59,000
	0	0	0	0	0
Interest and Other Income	0	0	0	0	0
Other Revenue	4,000	7,286	7,385	7,486	7,591
Total	4,000	46,786	52,885	63,486	66,591
REVENUE REQUIRED FROM CUSTOMERS					
	2,451,178	2,513,225	2,840,879	3,453,628	3,705,924

Table 4-1

04-Jan-24

Combined WWH Sewer Rate Study Statement of Operating Expenditures					
	2022/23 (Actual)	2023/24 (Projected)	2024/25 (Test)	2025/26 (Test)	2026/27 (Test)
SEWAGE COLLECTION SYSTEM					
WEST HANTS					
Pipe Maintenance	20,000	20,000	20,600	21,218	21,855
Operational Expense	3,500	3,500	3,605	3,713	3,825
Other	0	0	0	0	0
SUB-TOTAL WH SEWAGE COLLECTION	23,500	23,500	24,205	24,931	25,679
WINDSOR					
Pipe Maintenance	6,500	6,500	6,695	6,896	7,103
Operational Expenses	6,000	5,000	5,150	5,305	5,464
Maintenance - Manhole Structure	3,500	4,500	4,635	4,774	4,917
Outside Contract Work	25,000	30,000	30,900	31,827	32,782
Other	0	0	0	0	0
SUB-TOTAL WINDSOR SEWAGE COLLECTION	41,000	46,000	47,380	48,801	50,265
TOTAL WWH COLLECTION SYSTEM	64,500	69,500	71,585	73,733	75,945
SEWAGE LIFT STATIONS					
WEST HANTS					
Insurance	8,321	9,937	11,428	13,142	15,113
Power	28,000	49,000	52,430	54,003	55,623
Maintenance	41,000	40,000	41,200	42,436	43,709
Portable Generator	0	0	0	0	0
Other	0	0	0	0	0
SUB-TOTAL WEST HANTS SEWAGE LIFT STATIONS	77,321	98,937	105,058	109,581	114,445
WINDSOR					
Insurance	1,950	2,300	2,645	3,042	3,521
Power	2,500	2,500	2,575	2,652	2,732
Maintenance	31,500	25,100	26,857	27,663	28,493
Stock Items	21,000	26,000	26,780	27,583	28,411
Portable Generator	500	750	773	796	820
Other	0	0	0	0	0
SUB-TOTAL WINDSOR SEWAGE LIFT STATIONS	57,450	56,650	59,630	61,736	63,976
TOTAL PUMPING STATIONS	134,771	155,587	164,688	171,317	178,421
SEWAGE TREATMENT					
WEST HANTS					
Power	50,000	61,150	65,431	67,394	69,416
Sewage Treatment Fee	6,000	10,000	10,300	10,609	10,927
Operational Expense	50,000	50,000	51,500	53,045	54,636
Other	0	0	0	0	0
SUB-TOTAL WEST HANTS SEWAGE TREATMENT	106,000	121,150	127,231	131,048	134,979
WINDSOR					
WINDSOR TREATMENT- LAGOON DRIVE					
Water/Sewer Charges - Lagoon Drive	550	550	567	583	601
Power - Lagoon Drive	56,000	45,610	48,803	50,267	51,775
Chemical Supplies - Lagoon Drive	11,000	25,000	25,750	26,523	27,318
Insurance - Lagoon Drive	780	1,000	1,150	1,323	1,363
Operation Expenses - Lagoon Drive	6,500	7,000	7,210	7,426	7,649
Maintenance - Lagoon Drive	10,000	10,000	10,300	10,609	10,927
Other Costs - Lagoon Drive	0	0	0	0	0
SUB-TOTAL WINDSOR TREATMENT LAGOON DRIVE	84,830	89,160	93,780	96,731	99,633
WINDSOR					
SEWAGE TREATMENT - WENTWORTH ROAD					
Water/Sewer Charges - Wentworth Road	8,500	8,500	8,755	9,018	9,288
Power - Wentworth Road	8,500	20,650	22,096	22,759	23,442
Insurance - Wentworth Road	2,314	3,100	3,565	4,100	4,223

Operation Expenses - Wentworth Road	7,500	11,000	11,330	11,670	12,020
Equipment Maintenance - Wentworth Road	35,000	35,000	36,050	37,132	38,245
Other Costs - Wentworth Road	0	0	0	0	0
SUB-TOTAL TREATMENT WENTWORTH ROAD	61,814	78,250	81,796	84,678	87,218
ADMINISTRATION AND GENERAL					
WEST HANTS					
Salary	251,700	271,700	279,645	288,034	296,675
Employer share Benefits	41,650	51,500	53,045	54,636	56,275
Mileage and Expenses	750	750	773	796	820
Training and Development	2,500	3,500	3,605	3,713	3,825
Telephone	2,000	2,000	2,266	2,334	2,404
Mandated Communications	500	0	0	0	0
Administration Fee	69,520	81,654	84,104	86,627	89,226
Public Works Cost Distribution	19,000	19,000	19,570	20,157	20,762
Computer & Asset Management	8,500	6,500	6,695	6,896	7,103
Insurance	3,183	4,400	4,532	4,668	6,648
Fleet Maintenance	18,100	19,000	19,570	20,157	20,762
Fleet Fuel	14,200	24,000	24,720	25,462	26,225
Other	5,000	5,000	5,150	5,305	5,464
Professional Services	10,800	10,000	6,000	6,180	6,365
Capital Out of Revenue	0	0		0	0
Treatment Plant Kings County	95,600	95,600	98,468	101,422	104,465
Treatment Plant Windsor	60,000	0	0	0	0
LESS Treatment Plant Windsor	0	0	0	0	0
SUB-TOTAL WEST HANTS ADMIN AND GENERAL	603,003	594,604	608,143	626,387	647,019
WINDSOR					
Salary	238,300	222,500	229,175	236,050	243,132
Employer Share Benefits	41,100	42,600	43,878	45,194	46,550
Mileage & Expenses	600	600	618	637	656
Training and Development	2,000	3,000	3,090	3,183	3,278
Telephone	500	900	927	955	983
Administration Fee	51,436	61,560	63,407	65,309	67,268
PW Cost Distribution	19,000	19,000	19,570	20,157	20,762
Computer & Asset Management	8,500	6,500	6,695	6,896	7,103
Insurance	3,500	3,439	3,955	4,548	4,684
Equipment Maintenance	7,000	9,000	9,270	9,548	9,835
Equipment	5,000	5,000	5,150	5,305	5,464
Fleet Maintenance	8,500	8,500	8,755	9,018	9,288
Fleet Fuel	8,000	15,000	15,450	15,914	16,391
Other	750	500	515	530	546
Professional Services	9,300	9,000	6,000	6,180	6,365
Other	0	0	0	0	0
SUB-TOTAL WINDSOR ADMIN AND GENERAL	403,486	407,099	416,455	429,423	442,305
TOTAL WWH ADMINISTRATION AND GENERAL	1,006,489	1,001,703	1,024,598	1,055,810	1,089,324

04-Jan-24

Table 6-1

Combined WWH Sewer Rate Study				
Calculation of Depreciation of Tangible Plant at Total Cost				
2022/23				
	Planned Capital Spending Program	Estimated Average Life in Years	Depreciation Rate	Annual Depreciation
	Capital Reserve Rate at the beginning of the Year			2,149,036
LAND AND LAND RIGHTS				
Land - General	0			0
STRUCTURES AND IMPROVEMENTS				
Power and Pumping Structures	0	50	0.02	0
Wastewater Treatment Plant	0	25	0.04	0
Other Wastewater Structures	0	25	0.04	0
Other Wastewater Structures	0	25	0.04	0
Equipment				0
Electrical Pumping	80,000	20	0.05	4,000
Treatment Equipment	63,000	20	0.05	3,150
Office Furniture and Equipment	0	5	0.20	0
Transportation Equipment	0	5	0.20	0
Tools and Work Equipment	0	5	0.200	0
Lift Station Upgrade	40,000	20	0.05	2,000
Collection Mains & Manholes Equipment	30,000			0
Other - SCADA	0	10	0.1000	0
Other Equipment	0	10	0.1000	0
Collection System				
Forcemain	0	50	0.02	0
Mains	319,500	75	0.0133	4,260
Manholes	0	30	0.03	0
Meters	0	20	0.05	0
Services	20,000	50	0.02	400
Other	0	20	0.05	0
Other	0	20	0.05	0
TOTAL	552,500			13,810
Source of Funding				
			Reserve Fund Balance	2,149,036
External Funding	0		Contribution to Reserve Fund in Current Year	520,749
Capital Reserve	532,500		Reserve Fund Expenditure in Current Year	-532,500
Customers (services)	20,000			
Long Term Debt	0		Reserve Fund Fund Balance	2,137,285
Capital from Revenue	0			
TOTAL	552,500			

Table 6-2

Combined WWH Sewer Rate Study				
Calculation of Depreciation of Tangible Plant at Total Cost				
2023/24				
	Planned Capital Spending Program		Capital Cost Contribution by Others	Net Capital Cost
			Capital Reserve Rate at the beginning of the Year	520,749
LAND AND LAND RIGHTS				
Land - General	0			0
STRUCTURES AND IMPROVEMENTS				
Power and Pumping Structures	15,000	20	0.05	750
Power and Pumping Structures	80,000	30	0.03	2,667
Wastewater Treatment Plant	50,000	25	0.04	2,000
Wastewater Treatment Plant	42,000	20	0.05	2,100
Other Wastewater Structures	0	25	0.04	0
Other Wastewater Structures	0	25	0.04	0
Equipment				
Electrical Pumping	80,000	20	0.05	4,000
Treatment Equipment	50,000	20	0.05	2,500
Office Furniture and Equipment	0	5	0.20	0
Transportation Equipment	0	5	0.20	0
Tools and Work Equipment	25,000	5	0.200	5,000
Lift Station Upgrade	50,000	20	0.05	2,500
Collection Mains & Manholes Equipment	0			0
Other Generator	140,000	10	0.1000	14,000
Other SCADA & Electrical	42,000	10	0.1000	4,200
SCADA	30,000	7	0.1429	4,286
Collection System				
Forcemain	0	50	0.02	0
Mains	1,011,060	75	0.0133	13,481
Manholes	0	30	0.03	0
Meters	0	20	0.05	0
Services	20,000	50	0.02	400
Other	0	20	0.05	0
Other	0	20	0.05	0
TOTAL	1,635,060			57,883
Source of Funding				
			Reserve Fund Balance	2,137,285
External Funding	0		Contribution to Reserve Fund in Current Year	578,632
Capital Reserve	1,205,938		Reserve Fund Expenditure in Current Year	-1,205,938
Customers (services)	20,000			
Long Term Debt	409,122		Reserve Fund Fund Balance	1,509,979
Capital from Revenue	0			
TOTAL	1,635,060			

Table 6-3

Combined WWH Sewer Rate Study				
Calculation of Depreciation of Tangible Plant at Total Cost				
2024/25				
	Planned Capital Spending Program		Capital Cost Contribution by Others	Net Capital Cost
			Capital Reserve Rate at the beginning of the Year	578,632
LAND AND LAND RIGHTS				
Land - General	0			0
STRUCTURES AND IMPROVEMENTS				
Power and Pumping Structures	40,000	50	0.02	800
Wastewater Treatment Plant	0	25	0.04	0
Other Sludge Drying Bed	336,440	25	0.04	13,458
Other Treatment Equipment	158,500	20	0.05	7,925
Equipment				0
Electrical Pumping	80,000	20	0.05	4,000
Treatment Equipment	8,500	25	0.04	340
Treatment Equipment	40,000	20	0.05	2,000
Office Furniture and Equipment	0	5	0.20	0
Transportation Equipment	283,390	5	0.20	56,678
Tools and Work Equipment	15,000	5	0.200	3,000
Lift Station Upgrade	40,000	20	0.05	2,000
Collection Mains & Manholes Equipment	0	10	0.10	0
Other SCADA	30,000	10	0.1000	3,000
Other SCADA	30,000	7	0.1429	4,286
Other Equipment	0	10	0.1000	0
Collection System				
Forcemain	0	50	0.02	0
Mains	1,354,190	75	0.0133	18,056
Manholes	0	30	0.03	0
Meters	0	20	0.05	0
Services	20,000	50	0.02	400
Other	0	20	0.05	0
Other	0	20	0.05	0
TOTAL	2,436,020			115,942
Source of Funding				
			Reserve Fund Balance	1,509,979
External Funding	0		Contribution to Reserve Fund in Current Year	694,574
Capital Reserve	1,153,357		Reserve Fund Expenditure in Current Year	-1,153,357
Customers (services)	20,000			
Long Term Debt	1,254,163		Reserve Fund Fund Balance	1,051,196
Capital from Revenue	8,500			
TOTAL	2,436,020			

Table 6-4

Combined WWH Sewer Rate Study				
Calculation of Depreciation of Tangible Plant at Total Cost				
2025/26				
	Planned Capital Spending Program		Capital Cost Contribution by Others	Net Capital Cost
			Capital Reserve Rate at the beginning of the Year	694,574
LAND AND LAND RIGHTS				
Land - General	0			0
STRUCTURES AND IMPROVEMENTS				
Power and Pumping Structures	0	50	0.02	0
Wastewater Treatment Plant	0	40	0.03	0
Other Wastewater Structures	600,000	25	0.04	24,000
Other Treatment Equipment	3,100,000	50	0.02	62,000
Equipment	0			0
Electrical Pumping	80,000	20	0.05	4,000
Treatment Equipment	695,000	20	0.05	34,750
Office Furniture and Equipment	0	5	0.20	0
Transportation Equipment	0	5	0.20	0
Tools and Work Equipment	0	5	0.200	0
Lift Station Upgrade	35,000	20	0.05	1,750
Collection Mains & Manholes Equipment	0	20	0.05	0
Other SCADA	0	10	0.1000	0
Other Equipment	0	10	0.1000	0
Collection System				
Forcemain	0	50	0.02	0
Mains	1,254,600	75	0.0133	16,728
Manholes	0	30	0.03	0
Meters	0	20	0.05	0
Services	20,000	50	0.02	400
Lagoon Drive STP Sludge Removal	0	20	0.05	0
Other	0	20	0.05	0
TOTAL	5,784,600			143,628
Source of Funding				
			Reserve Fund Balance	1,051,196
External Funding	1,550,000		Contribution to Reserve Fund in Current Year	838,202
Capital Reserve	1,152,600		Reserve Fund Expenditure in Current Year	-1,152,600
Customers (services)	20,000			
Long Term Debt	3,052,000		Reserve Fund Fund Balance	736,799
Capital from Revenue	10,000			
TOTAL	5,784,600			

Table 6-5

Combined WWH Sewer Rate Study Calculation of Depreciation of Tangible Plant at Total Cost 2026/27				
	Planned Capital Spending Program		Capital Cost Contribution by Others	Net Capital Cost
			Capital Reserve Rate at the beginning of the Year	838,202
LAND AND LAND RIGHTS				
Land - General	0			0
STRUCTURES AND IMPROVEMENTS				
Power and Pumping Structures	0	50	0.02	0
Wastewater Treatment Plant	0	25	0.04	0
Other Wastewater Structures	0	25	0.04	0
Other Treatment Equipment	1,008,500	20	0.05	50,425
Equipment				0
Electrical Pumping	80,000	20	0.05	4,000
Treatment Equipment	44,000	20	0.05	2,200
Office Furniture and Equipment	0	5	0.20	0
Transportation Equipment	0	5	0.20	0
Tools and Work Equipment	15,000	5	0.200	3,000
Lift Station Upgrade	35,000	20	0.05	1,750
Collection Mains & Manholes Equipment	0			0
Other Equipment	0	10	0.1000	0
Other Equipment	0	10	0.1000	0
Collection System				
Forcemain	0	50	0.02	0
Mains	1,624,850	75	0.0133	21,665
Manholes	0	30	0.03	0
Meters	0	20	0.05	0
Services	20,000	50	0.02	400
Other	0	20	0.05	0
Other	0	20	0.05	0
TOTAL	2,827,350			83,440
Source of Funding				
			Reserve Fund Balance	736,799
External Funding	500,000		Contribution to Reserve Fund in Current Year	921,642
Capital Reserve	913,280		Reserve Fund Expenditure in Current Year	-913,280
Customers (services)	20,000			
Long Term Debt	1,385,070		Reserve Fund Fund Balance	745,161
Capital from Revenue	9,000			
TOTAL	2,827,350			

Leachate Treatment Charge

04-Jan-24

Total Flow combined System**Effluent into all Plants**

	846,036	cubic meters	
Effluent into plant from Windsor	0	cubic meters	
Effluent into plant - TMP and Wentworth	-	cubic meters	
Leachate Flow	38,503	cubic meters	(38,503 tonnes)
Total Effluent flow into STP	884,539	cubic meters	
Percent of Effluent from Leachate	4.4%		

Flow to Treatment Plant only

	381,817	cubic meters	
Effluent into plant from Windsor	169,583	cubic meters	
Effluent into plant - TMP and Wentworth	38,503	cubic meters	(38,503 tonnes)
Leachate Flow	589,903	cubic meters	
Total Effluent flow into STP	589,903	cubic meters	
Percent of Effluent from Leachate	6.5%		

Table 7-1

Combined WWH Sewer Rate Study				
Allocation of Leachate Treatment Charge				
2023/24				
	Revenue	Service	Leachate Flow	Leachate Treatment
OPERATING EXPENDITURES	Required	Allocation	Allocation	Charge
Sewage Collection	69,500	0.0%	4.4%	-
Sewage Lift Stations	155,587	25.0%	4.4%	1,693
Sewage Treatment West Hants	121,150	100.0%	4.4%	5,331
Sewage Treatment - Lagoon Drive	89,160	100.0%	4.4%	3,923
Sewage Treatment - Wentworth Road	78,250	100.0%	4.4%	3,443
Administration and General	1,001,703	25.0%	4.4%	10,901
Capital Reserve Contribution Windsor	216,687	50.0%	6.5%	7,042
Capital Reserve Contribution West Hants	361,945	0.0%	0.0%	-
Taxes	0	0.0%	0.0%	-
Non Opt Expenditures less Non Opt Revenue	419,242	40.0%	4.4%	7,300
TOTAL	2,513,225			39,633

Table 7-2

Combined WWH Sewer Rate Study				
Allocation of Leachate Treatment Charge				
2024/25				
	Revenue	Service	Leachate Flow	Leachate Treatment
OPERATING EXPENDITURES	Required	Allocation	Allocation	Charge
Sewage Collection	71,585	0.0%	4.4%	-
Sewage Lift Stations	164,688	25.0%	4.4%	1,792
Sewage Treatment West Hants	127,231	100.0%	4.4%	5,538
Sewage Treatment - Lagoon Drive	93,780	100.0%	4.4%	4,082
Sewage Treatment - Wentworth Road	81,796	100.0%	4.4%	3,560
Administration and General	1,024,598	25.0%	4.4%	11,150
Capital Reserve Contribution Windsor	281,706	50.0%	6.5%	9,155
Capital Reserve Contribution West Hants	412,868	0.0%	0.0%	-
Taxes	0	0.0%	0.0%	-
Non Opt Expenditures less Non Opt Revenue	582,628	40.0%	4.4%	10,144
TOTAL	2,840,879			45,423

Table 7-3

Combined WWH Sewer Rate Study				
Allocation of Leachate Treatment Charge				
2025/26				
	Revenue	Service	Leachate Flow	Leachate Treatment
OPERATING EXPENDITURES	Required	Allocation	Allocation	Charge
Sewage Collection	73,733	0.0%	4.4%	-
Sewage Lift Stations	171,317	25.0%	4.4%	1,864
Sewage Treatment West Hants	131,048	100.0%	4.4%	5,704
Sewage Treatment - Lagoon Drive	96,731	100.0%	4.4%	4,211
Sewage Treatment - Wentworth Road	84,678	100.0%	4.4%	3,686
Administration and General	1,055,810	25.0%	4.4%	11,490
Capital Reserve Contribution Windsor	354,083	50.0%	6.5%	11,508
Capital Reserve Contribution West Hants	484,120	0.0%	0.0%	-
Taxes	0	0.0%	0.0%	-
Non Opt Expenditures less Non Opt Revenue	1,002,109	40.0%	4.4%	17,448
TOTAL	3,453,628			55,911

Table 7-4

Combined WWH Sewer Rate Study				
Allocation of Leachate Treatment Charge				
2026/27				
	Revenue	Service	Leachate Flow	Leachate Treatment
OPERATING EXPENDITURES	Required	Allocation	Allocation	Charge
Sewage Collection	75,945	0.0%	4.4%	-
Sewage Lift Stations	178,421	25.0%	4.4%	1,942
Sewage Treatment West Hants	134,979	100.0%	4.4%	5,876
Sewage Treatment - Lagoon Drive	99,633	100.0%	4.4%	4,337
Sewage Treatment - Wentworth Road	87,218	100.0%	4.4%	3,797
Administration and General	1,089,324	25.0%	4.4%	11,854
Capital Reserve Contribution Windsor	381,951	50.0%	6.5%	12,413
Capital Reserve Contribution West Hants	539,691	0.0%	0.0%	-
Taxes	0	0.0%	0.0%	-
Non Opt Expenditures less Non Opt Revenue	1,118,761	40.0%	4.4%	19,479
TOTAL	3,705,924			59,698

Table 8-1

04-Jan-24

Combined WWH Sewer Rate Study Calculation of Revenue Required for Each Billing/Cost Category 2023/24							
	Total Revenue Required	Less		Net Revenue		Effluent	
		Leachate Charge	from Customers	Base			
Sewage Collection	69,500	0	69,500	0%	0	100%	69,500
Sewage Lift Stations	155,587	1,693	153,894	0%	0	100%	153,894
Sewage Treatment West Hants	121,150	5,331	115,819	0%	0	100%	115,819
Sewage Treatment - Lagoon Drive	89,160	3,923	85,237	0%	0	100%	85,237
Sewage Treatment - Wentworth Road	78,250	3,443	74,807	0%	0	100%	74,807
Administration and General	1,001,703	10,901	990,802	100%	990,802	0%	0
Capital Reserve Contribution Windsor	216,687	7,042	209,644	0%	0	100%	209,644
Capital Reserve Contribution West Hants	361,945	0	361,945	0%	0	100%	361,945
Taxes	0	0	0	0%	0	100%	0
Non Opt Expenditures less Non Opt Revenue	419,242	7,300	411,943	5%	20,597	95%	391,346
SUBTOTAL	2,513,225	39,633	2,473,592		1,011,399		1,462,193
TOTAL	2,513,225	39,633	2,473,592		1,011,399		1,462,193

Table 8-2

Combined WWH Sewer Rate Study Calculation of Revenue Required for Each Billing/Cost Category 2024/25							
	Total Revenue Required	Less		Net Revenue		Effluent	
		Leachate Charge	from	Base			
Sewage Collection	71,585	0	71,585	0%	0	100%	71,585
Sewage Lift Stations	164,688	1,792	162,895	0%	0	100%	162,895
Sewage Treatment West Hants	127,231	5,538	121,693	0%	0	100%	121,693
Sewage Treatment - Lagoon Drive	93,780	4,082	89,697	0%	0	100%	89,697
Sewage Treatment - Wentworth Road	81,796	3,560	78,236	0%	0	100%	78,236
Administration and General	1,024,598	11,150	1,013,448	100%	1,013,448	0%	0
Capital Reserve Contribution Windsor	281,706	9,155	272,550	18%	49,059	82%	223,491
Capital Reserve Contribution West Hants	412,868	0	412,868	0%	0	100%	412,868
Taxes	0	0	0	0%	0	100%	0
Non Opt Expenditures less Non Opt Revenue	582,628	10,144	572,484	15%	85,873	85%	486,611
SUBTOTAL	2,840,879	45,423	2,795,457		1,148,380		1,647,077
TOTAL	2,840,879				1,148,380		1,647,077

Table 8-3

Combined WWH Sewer Rate Study							
Calculation of Revenue Required for Each Billing/Cost Category							
2025/26							
	Total Revenue	Less	Net Revenue				
	Required	Leachate	from	Base		Effluent	
		Charge					
Sewage Collection	73,733	0	73,733	0%	0	100%	73,733
Sewage Lift Stations	171,317	1,864	169,453	0%	0	100%	169,453
Sewage Treatment West Hants	131,048	5,704	125,344	0%	0	100%	125,344
Sewage Treatment - Lagoon Drive	96,731	4,211	92,521	0%	0	100%	92,521
Sewage Treatment - Wentworth Road	84,678	3,686	80,992	0%	0	100%	80,992
Administration and General	1,055,810	11,490	1,044,320	100%	1,044,320	0%	0
Capital Reserve Contribution Windsor	354,083	11,508	342,575	20%	68,515	80%	274,060
Capital Reserve Contribution West Hants	484,120	0	484,120	0%	0	100%	484,120
Taxes	0	0	0	0%	0	100%	0
Non Opt Expenditures less Non Opt Revenue	1,002,109	17,448	984,661	26%	256,012	74%	728,649
SUBTOTAL	3,453,628	55,911	3,397,717		1,368,847		2,028,870
TOTAL	3,453,628				1,368,847		2,028,870

Table 8-4

Combined WWH Sewer Rate Study							
Calculation of Revenue Required for Each Billing/Cost Category							
2026/27							
	Total Revenue	Less	Net Revenue				
	Required	Leachate	from	Base		Effluent	
		Charge					
Sewage Collection	75,945	0	75,945	0%	0	100%	75,945
Sewage Lift Stations	178,421	1,942	176,479	0%	0	100%	176,479
Sewage Treatment West Hants	134,979	5,876	129,104	0%	0	100%	129,104
Sewage Treatment - Lagoon Drive	99,633	4,337	95,296	0%	0	100%	95,296
Sewage Treatment - Wentworth Road	87,218	3,797	83,422	0%	0	100%	83,422
Administration and General	1,089,324	11,854	1,077,470	100%	1,077,470	0%	0
Capital Reserve Contribution Windsor	381,951	12,413	369,537	20%	73,907	80%	295,630
Capital Reserve Contribution West Hants	539,691	0	539,691	0%	0	100%	539,691
Taxes	0	0	0	0%	0	100%	0
Non Opt Expenditures less Non Opt Revenue	1,118,761	19,479	1,099,282	30%	329,785	70%	769,497
SUBTOTAL	3,705,924	59,698	3,646,226		1,481,162		2,165,064
TOTAL	3,705,924				1,481,162		2,165,064

Table 9-1

04-Jan-24

Combined WWH Sewer Rate Study Service Connections and Equivalents 2023/24			
Meter Size	Number of Services	Capacity Ratio	System Equivalents
Unmetered	121	1	121
15mm - 5/8"	3832	1	3,832
19 mm - 3/4"	55	1.5	83
25 mm - 1"	48	2.5	120
37 mm - 1.5"	19	5	95
50 mm - 2"	35	8	280
75 mm - 3 "	6	16	96
100 mm - 4"	4	25	100
150 mm - 6"	0	50	0
200 mm - 8"	0	90	0
TOTAL	4120		4,727

Table 9-2

Combined WWH Sewer Rate Study Service Connections and Equivalents 2024/25			
Meter Size	Number of Services	Capacity Ratio	System Equivalents
Unmetered	121	1	121
15mm - 5/8"	3847	1	3,847
19 mm - 3/4"	55	1.5	83
25 mm - 1"	48	2.5	120
37 mm - 1.5"	19	5	95
50 mm - 2"	35	8	280
75 mm - 3 "	6	16	96
100 mm - 4"	4	25	100
150 mm - 6"	0	50	0
200 mm - 8"	0	90	0
TOTAL	4135		4,742

Table 9-3

Combined WWH Sewer Rate Study Service Connections and Equivalents 2025/26			
Meter Size	Number of Services	Capacity Ratio	System Equivalents
Unmetered	121	1	121
15mm - 5/8"	3862	1	3,862
19 mm - 3/4"	55	1.5	83
25 mm - 1"	48	2.5	120
37 mm - 1.5"	19	5	95
50 mm - 2"	35	8	280
75 mm - 3 "	6	16	96
100 mm - 4"	4	25	100
150 mm - 6"	0	50	0
200 mm - 8"	0	90	0
TOTAL	4150		4,757

Table 9-4

Combined WWH Sewer Rate Study Service Connections and Equivalents 2026/27			
Meter Size	Number of Services	Capacity Ratio	System Equivalents
Unmetered	121	1	121
15mm - 5/8"	3877	1	3,877
19 mm - 3/4"	55	1.5	83
25 mm - 1"	48	2.5	120
37 mm - 1.5"	19	5	95
50 mm - 2"	35	8	280
75 mm - 3 "	6	16	96
100 mm - 4"	4	25	100
150 mm - 6"	0	50	0
200 mm - 8"	0	90	0
TOTAL	4165		4,772

Table 10-1

04-Jan-24

Combined WWH Sewer Rate Study Wastewater Base Charges 2023/24					
Meter Size	Capacity Ratio	Base Charge	Total Base Charge		
			Annual	Quarterly	Monthly
Unmetered	1	213.98	213.98	53.50	17.83
15mm - 5/8"	1	213.98	213.98	53.50	17.83
19 mm - 3/4"	1.5	320.98	320.98	80.24	26.75
25 mm - 1"	2.5	534.96	534.96	133.74	44.58
37 mm - 1.5"	5	1,069.92	1,069.92	267.48	89.16
50 mm - 2"	8	1,711.88	1,711.88	427.97	142.66
75 mm - 3 "	16	3,423.76	3,423.76	855.94	285.31
100 mm - 4"	25	5,349.62	5,349.62	1,337.41	445.80
150 mm - 6"	50	10,699.24	10,699.24	2,674.81	891.60
200 mm - 8"	90	19,258.64	19,258.64	4,814.66	1,604.89
TOTAL					

Table 10-2

Combined WWH Sewer Rate Study Wastewater Base Charges 2024/25					
Meter Size	Capacity Ratio	Base Charge	Total Base Charge		
			Annual	Quarterly	Monthly
Unmetered	1	242.20	242.20	60.55	20.18
15mm - 5/8"	1	242.20	242.20	60.55	20.18
19 mm - 3/4"	1.5	363.30	363.30	90.82	30.27
25 mm - 1"	2.5	605.49	605.49	151.37	50.46
37 mm - 1.5"	5	1,210.99	1,210.99	302.75	100.92
50 mm - 2"	8	1,937.58	1,937.58	484.40	161.47
75 mm - 3 "	16	3,875.16	3,875.16	968.79	322.93
100 mm - 4"	25	6,054.94	6,054.94	1,513.73	504.58
150 mm - 6"	50	12,109.88	12,109.88	3,027.47	1,009.16
200 mm - 8"	90	21,797.78	21,797.78	5,449.44	1,816.48
TOTAL					

Table 10-3

Combined WWH Sewer Rate Study Wastewater Base Charges 2025/26					
Meter Size	Capacity Ratio	Base Charge	Total Base Charge		
			Annual	Quarterly	Monthly
Unmetered	1	287.78	287.78	71.95	23.98
15mm - 5/8"	1	287.78	287.78	71.95	23.98
19 mm - 3/4"	1.5	431.68	431.68	107.92	35.97
25 mm - 1"	2.5	719.46	719.46	179.87	59.96
37 mm - 1.5"	5	1,438.92	1,438.92	359.73	119.91
50 mm - 2"	8	2,302.28	2,302.28	575.57	191.86
75 mm - 3 "	16	4,604.55	4,604.55	1,151.14	383.71
100 mm - 4"	25	7,194.61	7,194.61	1,798.65	599.55
150 mm - 6"	50	14,389.23	14,389.23	3,597.31	1,199.10
200 mm - 8"	90	25,900.61	25,900.61	6,475.15	2,158.38
TOTAL					

Table 10-4

Combined WWH Sewer Rate Study Wastewater Base Charges 2026/27					
Meter Size	Capacity Ratio	Base Charge	Total Base Charge		
			Annual	Quarterly	Monthly
Unmetered	1	310.42	310.42	77.60	25.87
15mm - 5/8"	1	310.42	310.42	77.60	25.87
19 mm - 3/4"	1.5	465.63	465.63	116.41	38.80
25 mm - 1"	2.5	776.05	776.05	194.01	64.67
37 mm - 1.5"	5	1,552.09	1,552.09	388.02	129.34
50 mm - 2"	8	2,483.35	2,483.35	620.84	206.95
75 mm - 3 "	16	4,966.70	4,966.70	1,241.67	413.89
100 mm - 4"	25	7,760.46	7,760.46	1,940.12	646.71
150 mm - 6"	50	15,520.93	15,520.93	3,880.23	1,293.41
200 mm - 8"	90	27,937.67	27,937.67	6,984.42	2,328.14
TOTAL					

Table 11-1

04-Jan-24

Combined WWH Sewer Rate Study Estimated Effluent Flow by Block		
Meter Size	Actual Current Consumption	2023/24 Estimated Consumption
	1st Block (Cubic meters)	1st Block (Cubic Meters)
Unmetered	15,639	15,639
15mm - 5/8"	525,812	518,642
19 mm - 3/4"	26,680	26,680
25 mm - 1"	32,694	32,694
37 mm - 1.5"	30,080	30,080
50 mm - 2"	157,997	157,997
75 mm - 3 "	27,066	27,066
100 mm - 4"	30,068	30,068
150 mm - 6"	0	0
200 mm - 8"	0	0
Less non-treated flows	0	0
TOTAL	846,036	838,866

Table 11-2

Combined WWH Sewer Rate Study Estimated Effluent Flow by Block		
Meter Size	2024/25 Estimated Consumption	2025/26 Estimated Consumption
	1st Block (Cubic meters)	1st Block (Cubic Meters)
Unmetered	15,639	15,639
15mm - 5/8"	513,501	508,449
19 mm - 3/4"	26,680	26,680
25 mm - 1"	32,694	32,694
37 mm - 1.5"	30,080	30,080
50 mm - 2"	157,997	157,997
75 mm - 3 "	27,066	27,066
100 mm - 4"	30,068	30,068
150 mm - 6"	0	0
200 mm - 8"	0	0
Less non-treated flows	0	0
TOTAL	833,725	828,673

Table 11-3

Combined WWH Sewer Rate Study		
Estimated Effluent Flow by Block		
Meter Size	2026/27	
	Current Consumption	
	1st Block	
	(Cubic meters)	
Unmetered	15,639	
15mm - 5/8"	503,365	
19 mm - 3/4"	26,680	
25 mm - 1"	32,694	
37 mm - 1.5"	30,080	
50 mm - 2"	157,997	
75 mm - 3 "	27,066	
100 mm - 4"	30,068	
150 mm - 6"	0	
200 mm - 8"	0	
Less non-treated flows	0	
TOTAL	823,588	

Effluent Charge

Table 12-1

04-Jan-24

Combined WWH Sewer Rate Study Calculation of Wastewater Effluent Charge 2023/24	
BLOCK 1	
<u>Total Charge Base and Commodity Worksheet (Table 9-1)</u> Quantity from Effluent Flow Worksheet (Table 12-1)	1.743
TOTAL EFFLUENT CHARGE PER Cubic Meter	1.743

Table 12-2

Combined WWH Sewer Rate Study Calculation of Wastewater Effluent Charge 2024/25	
BLOCK 1	
<u>Total Charge Base and Commodity Worksheet (Table 9-2)</u> Quantity from Effluent Flow Worksheet (Table 12-2)	1.976
TOTAL EFFLUENT CHARGE PER Cubic Meter	1.976

Table 12-3

Combined WWH Sewer Rate Study Calculation of Wastewater Effluent Charge 2025/26	
BLOCK 1	
<u>Total Charge Base and Commodity Worksheet (Table 9-3)</u> Quantity from Effluent Flow Worksheet (Table 12-3)	2.448
TOTAL EFFLUENT CHARGE PER Cubic Meter	2.448

Table 12-4

Combined WWH Sewer Rate Study Calculation of Wastewater Effluent Charge 2026/27	
BLOCK 1	
<u>Total Charge Base and Commodity Worksheet (Table 9-4)</u>	2.629
Quantity from Effluent Flow Worksheet (Table 12-4)	
TOTAL EFFLUENT CHARGE PER Cubic Meter	2.629

Table 13-1

04-Jan-24

Combined WWH Sewer Rate Study				
Wastewater Effluent Charge				
2023/24				
BASE CHARGE				
<u>Meter Size</u>	<u>Number</u>	<u>Base Rate</u>	<u>Dollar Revenue</u>	
Unmetered	121	213.98	25,892	
15mm - 5/8"	3,832	213.98	819,990	
19 mm - 3/4"	55	320.98	17,654	
25 mm - 1"	48	534.96	25,678	
37 mm - 1.5"	19	1,069.92	20,329	
50 mm - 2"	35	1,711.88	59,916	
75 mm - 3 "	6	3,423.76	20,543	
100 mm - 4"	4	5,349.62	21,398	
150 mm - 6"	0	10,699.24	0	
200 mm - 8"	0	19,258.64	0	
TOTAL BASE REVENUE			1,011,399	
EFFLUENT CHARGE				
	Quantity	\$/ Cubic Meter		
1st Block	838,866	1.743	1,462,193	
LEACHATE CHARGE				
				39,633
TOTAL OPERATING REVENUES FOR YEAR (BASE + EFFLUENT)				2,513,225

Table 13-2

Combined WWH Sewer Rate Study				
Wastewater Effluent Charge				
2024/25				
BASE CHARGE				
<u>Meter Size</u>	<u>Number</u>	<u>Base Rate</u>	<u>Dollar Revenue</u>	
Unmetered	121	242.20	29,306	
15mm - 5/8"	3,847	242.20	931,734	
19 mm - 3/4"	55	363.30	19,981	
25 mm - 1"	48	605.49	29,064	
37 mm - 1.5"	19	1,210.99	23,009	
50 mm - 2"	35	1,937.58	67,815	
75 mm - 3 "	6	3,875.16	23,251	
100 mm - 4"	4	6,054.94	24,220	
150 mm - 6"	0	12,109.88	0	
200 mm - 8"	0	21,797.78	0	
TOTAL BASE REVENUE			1,148,380	
EFFLUENT CHARGE				
	Quantity	\$/ Cubic Meter		
1st Block	833,725	1.976	1,647,077	
LEACHATE CHARGE				
				45,423
TOTAL OPERATING REVENUES FOR YEAR (BASE + EFFLUENT)				2,840,879

Table 13-3

Combined WWH Sewer Rate Study				
Wastewater Effluent Charge				
2025/26				
BASE CHARGE				
<u>Meter Size</u>	<u>Number</u>		<u>Base Rate</u>	<u>Dollar Revenue</u>
Unmetered	121		287.78	34,822
15mm - 5/8"	3,862		287.78	1,111,424
19 mm - 3/4"	55		431.68	23,742
25 mm - 1"	48		719.46	34,534
37 mm - 1.5"	19		1,438.92	27,340
50 mm - 2"	35		2,302.28	80,580
75 mm - 3 "	6		4,604.55	27,627
100 mm - 4"	4		7,194.61	28,778
150 mm - 6"	0		14,389.23	0
200 mm - 8"	0		25,900.61	0
TOTAL BASE REVENUE				1,368,847
EFFLUENT CHARGE				
	Quantity		\$/ Cubic Meter	
1st Block	828,673		2.448	2,028,870
LEACHATE CHARGE				55,911
TOTAL OPERATING REVENUES FOR YEAR (BASE + EFFLUENT)				3,453,628

Table 13-4

Combined WWH Sewer Rate Study				
Wastewater Effluent Charge				
2026/27				
BASE CHARGE				
<u>Meter Size</u>	<u>Number</u>		<u>Base Rate</u>	<u>Dollar Revenue</u>
Unmetered	121		310.42	37,561
15mm - 5/8"	3,877		310.42	1,203,493
19 mm - 3/4"	55		465.63	25,610
25 mm - 1"	48		776.05	37,250
37 mm - 1.5"	19		1,552.09	29,490
50 mm - 2"	35		2,483.35	86,917
75 mm - 3 "	6		4,966.70	29,800
100 mm - 4"	4		7,760.46	31,042
150 mm - 6"	0		15,520.93	0
200 mm - 8"	0		27,937.67	0
TOTAL BASE REVENUE				1,481,162
EFFLUENT CHARGE				
	Quantity		\$/ Cubic Meter	
1st Block	823,588		2.629	2,165,064
LEACHATE CHARGE				59,698
TOTAL OPERATING REVENUES FOR YEAR (BASE + EFFLUENT)				3,705,924

Table 14-1

04-Jan-24

Combined WWH Sewer Rate Study		Wastewater Rates 2023/24	
		<u>Annual</u>	<u>Quarterly</u>
(b) Base Charges			
Size of Meter		<u>Annual</u>	<u>Quarterly</u>
15mm - 5/8"		213.98	53.50
19 mm - 3/4"		320.98	80.24
25 mm - 1"		534.96	133.74
37 mm - 1.5"		1,069.92	267.48
50 mm - 2"		1,711.88	427.97
75 mm - 3 "		3,423.76	855.94
100 mm - 4"		5,349.62	1,337.41
150 mm - 6"		10,699.24	2,674.81
200 mm - 8"		19,258.64	4,814.66
(c) Consumption Rate (per Cubic Meter)		\$	1.74 per Cubic Meter

Table 14-2

Combined WWH Sewer Rate Study		Wastewater Rates 2024/25	
		<u>Annual</u>	<u>Quarterly</u>
(b) Base Charges			
Size of Meter		<u>Annual</u>	<u>Quarterly</u>
15mm - 5/8"		242.20	60.55
19 mm - 3/4"		363.30	90.82
25 mm - 1"		605.49	151.37
37 mm - 1.5"		1,210.99	302.75
50 mm - 2"		1,937.58	484.40
75 mm - 3 "		3,875.16	968.79
100 mm - 4"		6,054.94	1,513.73
150 mm - 6"		12,109.88	3,027.47
200 mm - 8"		21,797.78	5,449.44
(c) Consumption Rate (per Cubic Meter)		\$	1.98 per Cubic Meter

Table 14-3

Combined WWH Sewer Rate Study			
Wastewater Rates 2025/26			
	<u>Annual</u>	<u>Quarterly</u>	
(b) Base Charges			
Size of Meter	<u>Annual</u>	<u>Quarterly</u>	<u>Monthly</u>
Standard	287.78	71.95	23.98
19 mm	431.68	107.92	35.97
25 mm	719.46	179.87	59.96
37 mm	1,438.92	359.73	119.91
50 mm	2,302.28	575.57	191.86
75 mm	4,604.55	1,151.14	383.71
100 mm	7,194.61	1,798.65	599.55
150 mm	14,389.23	3,597.31	1,199.10
200 mm	25,900.61	6,475.15	2,158.38
(c) Consumption Rate (per Cubic Meter) \$ 2.45 per Cubic Meter			

Table 14-4

Combined WWH Sewer Rate Study			
Wastewater Rates 2026/27			
	<u>Annual</u>	<u>Quarterly</u>	
(b) Base Charges			
Size of Meter	<u>Annual</u>	<u>Quarterly</u>	<u>Monthly</u>
15mm - 5/8"	310.42	77.60	25.87
19 mm - 3/4"	465.63	116.41	38.80
25 mm - 1"	776.05	194.01	64.67
37 mm - 1.5"	1,552.09	388.02	129.34
50 mm - 2"	2,483.35	620.84	206.95
75 mm - 3 "	4,966.70	1,241.67	413.89
100 mm - 4"	7,760.46	1,940.12	646.71
150 mm - 6"	15,520.93	3,880.23	1,293.41
200 mm - 8"	27,937.67	6,984.42	2,328.14
(c) Consumption Rate (per Cubic Meter) \$ 2.63 per Cubic Meter			

Table 15-1

04-Jan-24

WEST HANTS										
Combined WWH Sewer Rate Study Comparison of Average Quarterly Rates 2024/25										
Meter Size	Average Flow	Base Rate		Change	Effluent Rate		Change	Charge per Quarter		Change
	c.m./quarter	Existing	Proposed	%	Existing	Proposed	%	Existing	Proposed	%
Unmetered	32	62.32	60.55	-2.8%	54.40	63.22	16.2%	116.72	123.77	6.0%
15mm - 5/8"	32	62.32	60.55	-2.8%	54.40	63.22	16.2%	116.72	123.77	6.0%
19 mm - 3/4"	65	93.49	90.82	-2.9%	110.50	128.41	16.2%	203.99	219.24	7.5%
25 mm - 1"	167	155.81	151.37	-2.8%	283.90	329.92	16.2%	439.71	481.29	9.5%
37 mm - 1.5"	335	311.62	302.75	-2.8%	569.50	661.81	16.2%	881.12	964.56	9.5%
50 mm - 2"	567	498.60	484.40	-2.8%	963.90	1,120.14	16.2%	1,462.50	1,604.54	9.7%
75 mm - 3 "	2,061	997.19	968.79	-2.8%	3,503.70	4,071.64	16.2%	4,500.89	5,040.43	12.0%
100 mm - 4"	459	1,558.11	1,513.73	-2.8%	780.30	906.78	16.2%	2,338.41	2,420.52	3.5%
150 mm - 6"	-	3,116.22	3,027.47	-2.8%	-	-	-	-	3,027.47	0.0%

WINDSOR										
Combined WWH Sewer Rate Study Comparison of Average Quarterly Rates 2024/25										
Meter Size	Average Flow	Base Rate		Change	Effluent Rate		Change	Charge per Quarter		Change
	c.m./quarter	Existing	Proposed	%	Existing	Proposed	%	Existing	Proposed	%
15mm - 5/8"	38	55.33	60.55	9.4%	76.73	74.45	-3.0%	132.06	135.00	2.2%
19 mm - 3/4"	131	82.99	90.82	9.4%	266.50	258.59	-3.0%	349.49	349.41	0.0%
25 mm - 1"	172	138.32	151.37	9.4%	349.84	339.45	-3.0%	488.16	490.82	0.5%
37 mm - 1.5"	423	276.63	302.75	9.4%	861.65	836.08	-3.0%	1,138.28	1,138.82	0.0%
50 mm - 2"	1,245	442.61	484.40	9.4%	2,534.36	2,459.13	-3.0%	2,976.97	2,943.52	-1.1%
75 mm - 3 "	194	885.22	968.79	9.4%	395.27	383.53	-3.0%	1,280.49	1,352.32	5.6%
100 mm - 4"	3,300	1,383.16	1,513.73	9.4%	6,717.85	6,518.44	-3.0%	8,101.01	8,032.18	-0.8%
150 mm - 6"	-	2,766.31	3,027.47	9.4%	-	-	-	-	3,027.47	0.0%

Combined WWH										
Combined WWH Sewer Rate Study Comparison of Average Quarterly Rates 2025/26										
Meter Size	Average Flow	Base Rate		Change	Effluent Rate		Change	Charge per Quarter		Change
	c.m./quarter	Existing	Proposed	%	Existing	Proposed	%	Existing	Proposed	%
Unmetered	33	60.55	71.95	18.8%	65.93	81.70	23.9%	126.47	153.65	21.5%
15mm - 5/8"	33	60.55	71.95	18.8%	65.93	81.70	23.9%	126.47	153.65	21.5%
19 mm - 3/4"	121	90.82	107.92	18.8%	239.59	296.92	23.9%	330.41	404.84	22.5%
25 mm - 1"	170	151.37	179.87	18.8%	336.40	416.90	23.9%	487.77	596.77	22.3%
37 mm - 1.5"	396	302.75	359.73	18.8%	781.90	969.02	23.9%	1,084.65	1,328.75	22.5%
50 mm - 2"	1,129	484.40	575.57	18.8%	2,229.53	2,763.08	23.9%	2,713.92	3,338.65	23.0%
75 mm - 3 "	1,128	968.79	1,151.14	18.8%	2,227.91	2,761.07	23.9%	3,196.70	3,912.21	22.4%
100 mm - 4"	1,879	1,513.73	1,798.65	18.8%	3,712.55	4,601.00	23.9%	5,226.28	6,399.65	22.5%
150 mm - 6"	-	3,027.47	3,597.31	18.8%	-	-	-	-	3,597.31	0.0%

Table 15-2

Combined WWH Sewer Rate Study Comparison of Average Rates 2026/27										
Meter Size	Average Flow	Base Rate		Change	Effluent Rate		Change	Charge per Quarter		Change
	c.m./quarter	Existing	Proposed	%	Existing	Proposed	%	Existing	Proposed	%
Unmetered	32	71.95	77.60	7.9%	81.70	85.33	4.4%	153.65	162.93	6.0%
15mm - 5/8"	32	71.95	77.60	7.9%	81.70	85.33	4.4%	153.65	162.93	6.0%
19 mm - 3/4"	121	107.92	116.41	7.9%	296.92	318.81	7.4%	404.84	435.22	7.5%
25 mm - 1"	170	179.87	194.01	7.9%	416.90	447.63	7.4%	596.77	641.65	7.5%
37 mm - 1.5"	396	359.73	388.02	7.9%	969.02	1,040.45	7.4%	1,328.75	1,428.47	7.5%
50 mm - 2"	1,129	575.57	620.84	7.9%	2,763.08	2,966.76	7.4%	3,338.65	3,587.60	7.5%
75 mm - 3 "	1,128	1,151.14	1,241.67	7.9%	2,761.07	2,964.60	7.4%	3,912.21	4,206.28	7.5%
100 mm - 4"	1,879	1,798.65	1,940.12	7.9%	4,601.00	4,940.17	7.4%	6,399.65	6,880.28	7.5%
150 mm - 6"	-	3,597.31	3,880.23	7.9%	-	-	0.0%	3,597.31	3,880.23	0.0%

Appendix 1

Loan Calculator		Interest Rate	6.0%	
Long Term Debt		Term in years	20	
2023/24		Capital	\$409,122	
Payment Schedule				
Year	Principal	Interest	Total	Balance
1	\$11,121.80	24,547.32	35,669.12	398,000.20
2	\$11,789.11	23,880.01	35,669.12	386,211.09
3	\$12,496.45	23,172.67	35,669.12	373,714.64
4	\$13,246.24	22,422.88	35,669.12	360,468.39
5	\$14,041.02	21,628.10	35,669.12	346,427.38
6	\$14,883.48	20,785.64	35,669.12	331,543.90
7	\$15,776.49	19,892.63	35,669.12	315,767.41
8	\$16,723.08	18,946.04	35,669.12	299,044.34
9	\$17,726.46	17,942.66	35,669.12	281,317.88
10	\$18,790.05	16,879.07	35,669.12	262,527.83
11	\$19,917.45	15,751.67	35,669.12	242,610.38
12	\$21,112.50	14,556.62	35,669.12	221,497.88
13	\$22,379.25	13,289.87	35,669.12	199,118.64
14	\$23,722.00	11,947.12	35,669.12	175,396.63
15	\$25,145.32	10,523.80	35,669.12	150,251.31
16	\$26,654.04	9,015.08	35,669.12	123,597.27
17	\$28,253.28	7,415.84	35,669.12	95,343.98
18	\$29,948.48	5,720.64	35,669.12	65,395.50
19	\$31,745.39	3,923.73	35,669.12	33,650.11
20	\$33,650.11	2,019.01	35,669.12	0.00

Loan Calculator		Interest Rate	6.0%	
Short Term Debt		Yearly	20	
2024/25		Capital	\$1,254,163	
Payment Schedule				
Year	Principal	Interest	Total	Balance
1	\$34,093.87	75,249.78	109,343.65	1,220,069.13
2	\$36,139.50	73,204.15	109,343.65	1,183,929.64
3	\$38,307.87	71,035.78	109,343.65	1,145,621.77
4	\$40,606.34	68,737.31	109,343.65	1,105,015.43
5	\$43,042.72	66,300.93	109,343.65	1,061,972.71
6	\$45,625.28	63,718.36	109,343.65	1,016,347.43
7	\$48,362.80	60,980.85	109,343.65	967,984.63
8	\$51,264.57	58,079.08	109,343.65	916,720.06
9	\$54,340.44	55,003.20	109,343.65	862,379.62
10	\$57,600.87	51,742.78	109,343.65	804,778.75
11	\$61,056.92	48,286.72	109,343.65	743,721.83
12	\$64,720.34	44,623.31	109,343.65	679,001.49
13	\$68,603.56	40,740.09	109,343.65	610,397.94
14	\$72,719.77	36,623.88	109,343.65	537,678.17
15	\$77,082.96	32,260.69	109,343.65	460,595.21
16	\$81,707.93	27,635.71	109,343.65	378,887.28
17	\$86,610.41	22,733.24	109,343.65	292,276.87
18	\$91,807.03	17,536.61	109,343.65	200,469.84
19	\$97,315.46	12,028.19	109,343.65	103,154.38
20	\$103,154.38	6,189.26	109,343.65	0.00

Loan Calculator		Interest Rate	6.0%	
Short Term Debt		Term in years	20	
2025/26		Capital	\$3,052,000	
Payment Schedule				
Year	Principal	Interest	Total	Balance
1	\$82,967.27	183,120.00	266,087.27	2,969,032.73
2	\$87,945.30	178,141.96	266,087.27	2,881,087.43
3	\$93,222.02	172,865.25	266,087.27	2,787,865.41
4	\$98,815.34	167,271.92	266,087.27	2,689,050.06
5	\$104,744.26	161,343.00	266,087.27	2,584,305.80
6	\$111,028.92	155,058.35	266,087.27	2,473,276.88
7	\$117,690.66	148,396.61	266,087.27	2,355,586.22
8	\$124,752.09	141,335.17	266,087.27	2,230,834.13
9	\$132,237.22	133,850.05	266,087.27	2,098,596.91
10	\$140,171.45	125,915.81	266,087.27	1,958,425.45
11	\$148,581.74	117,505.53	266,087.27	1,809,843.71
12	\$157,496.65	108,590.62	266,087.27	1,652,347.07
13	\$166,946.44	99,140.82	266,087.27	1,485,400.63
14	\$176,963.23	89,124.04	266,087.27	1,308,437.40
15	\$187,581.02	78,506.24	266,087.27	1,120,856.37
16	\$198,835.89	67,251.38	266,087.27	922,020.49
17	\$210,766.04	55,321.23	266,087.27	711,254.45
18	\$223,412.00	42,675.27	266,087.27	487,842.45
19	\$236,816.72	29,270.55	266,087.27	251,025.72
20	\$251,025.72	15,061.54	266,087.27	0.00

Loan Calculator		Interest Rate	6.0%	
Short Term Debt		Term in years	20	
2026/27		Capital	1,385,070	
Payment Schedule				
Year	Principal	Interest	Total	Balance
1	\$37,652.51	83,104.20	120,756.71	1,347,417.49
2	\$39,911.67	80,845.05	120,756.71	1,307,505.82
3	\$42,306.37	78,450.35	120,756.71	1,265,199.46
4	\$44,844.75	75,911.97	120,756.71	1,220,354.71
5	\$47,535.43	73,221.28	120,756.71	1,172,819.28
6	\$50,387.56	70,369.16	120,756.71	1,122,431.72
7	\$53,410.81	67,345.90	120,756.71	1,069,020.91
8	\$56,615.46	64,141.25	120,756.71	1,012,405.45
9	\$60,012.39	60,744.33	120,756.71	952,393.06
10	\$63,613.13	57,143.58	120,756.71	888,779.93
11	\$67,429.92	53,326.80	120,756.71	821,350.01
12	\$71,475.71	49,281.00	120,756.71	749,874.30
13	\$75,764.26	44,992.46	120,756.71	674,110.04
14	\$80,310.11	40,446.60	120,756.71	593,799.93
15	\$85,128.72	35,628.00	120,756.71	508,671.21
16	\$90,236.44	30,520.27	120,756.71	418,434.77
17	\$95,650.63	25,106.09	120,756.71	322,784.14
18	\$101,389.67	19,367.05	120,756.71	221,394.47
19	\$107,473.05	13,283.67	120,756.71	113,921.43
20	\$113,921.43	6,835.29	120,756.71	0.00