



2023 Wastewater Rate Analysis



TABLE 1

2023 - 2032 Wastewater Capital Forecast										
Description	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
2023 Capital Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SWN Pond Rehab-Civic Neighbourhood (S Service Rd)	\$ -	\$ 1,030,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SWN Pond Rehab-Summer (Summer Cr)	\$ -	\$ -	\$ -	\$ -	\$ 844,132	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Rehabilitation-2023	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Rehabilitation Program	\$ -	\$ 515,000	\$ 1,591,350	\$ 1,639,091	\$ 1,688,263	\$ 289,819	\$ 307,468	\$ 316,693	\$ 326,193	\$ 335,979
Wastewater I&I Reduction-Drainage Area 5&7	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater I&I Reduction Program	\$ -	\$ 1,944,228	\$ 2,002,555	\$ 2,062,631	\$ 2,124,510	\$ 2,188,246	\$ 2,321,510	\$ 2,391,155	\$ 2,462,890	\$ 2,536,777
Storm Water Rehabilitation Program	\$ -	\$ 329,600	\$ 339,488	\$ 349,673	\$ 360,163	\$ 370,968	\$ 393,560	\$ 405,366	\$ 417,527	\$ 430,053
-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Growth Projects	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Improvements-S Service Rd, Hunter Rd to Roberts Rd SPS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,213,784	\$ -	\$ -
-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-TCA Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Consolidated Linear Infrastructure (CLI) Program	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Overflow and By-Pass Monitoring	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater I&I Reduction Study = Drainage 5&7	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Pre-Inflation Capital Program (2023 Dollars)	\$ 750,000	\$ 3,707,600	\$ 3,707,600	\$ 3,707,600	\$ 4,457,600	\$ 2,457,600	\$ 2,457,600	\$ 5,784,000	\$ 2,457,600	\$ 2,457,600
Inflationary Impact	\$ -	\$ 111,228	\$ 225,793	\$ 343,795	\$ 559,468	\$ 391,432	\$ 564,938	\$ 1,542,998	\$ 749,011	\$ 845,209
Total Capital Expenditures	\$ 750,000	\$ 3,818,828	\$ 3,933,393	\$ 4,051,395	\$ 5,017,068	\$ 2,849,032	\$ 3,022,538	\$ 7,326,998	\$ 3,206,611	\$ 3,302,809
Capital Financing										
Regional Grant (Baker Rd PCPP Projects)	\$ 162,500	\$ 972,114	\$ 1,001,277	\$ 1,031,316	\$ 1,062,255	\$ 1,094,123	\$ 1,160,755	\$ 1,195,578	\$ 1,231,445	\$ 1,268,388
Storm Water Reserve Fund	\$ 37,500	\$ 1,372,800	\$ 346,112	\$ 359,956	\$ 1,251,749	\$ 389,329	\$ 421,098	\$ 437,942	\$ 455,460	\$ 473,678
Development Charges	\$ 12,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Growth Related Debenture Requirements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Growth Related Debenture Requirements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,739,669	\$ -	\$ -
Operating Contributions (Capital From Current)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Capital Reserve Fund	\$ 450,000	\$ 1,473,914	\$ 2,586,003	\$ 2,660,122	\$ 2,703,064	\$ 1,365,580	\$ 1,440,685	\$ 2,953,809	\$ 1,519,706	\$ 1,560,742
Wastewater Operating Reserve	\$ 87,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capital Financing	\$ 750,000	\$ 3,818,828	\$ 3,933,392	\$ 4,051,394	\$ 5,017,068	\$ 2,849,032	\$ 3,022,538	\$ 7,326,998	\$ 3,206,611	\$ 3,302,808

TABLE 2-A

Wastewater Capital Reserve Fund										
Description	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Opening Balance	\$ 15,030,310	\$ 16,482,318	\$ 16,988,354	\$ 16,437,040	\$ 15,868,612	\$ 15,317,448	\$ 16,201,875	\$ 17,112,943	\$ 16,580,530	\$ 17,592,755
Transfer from Operating	\$ 1,500,000	\$ 1,565,600	\$ 1,633,786	\$ 1,704,654	\$ 1,778,304	\$ 1,854,839	\$ 1,934,365	\$ 2,016,993	\$ 2,102,838	\$ 2,192,019
Transfer to Capital	\$ 450,000	\$ 1,473,914	\$ 2,586,003	\$ 2,660,122	\$ 2,703,064	\$ 1,365,580	\$ 1,440,685	\$ 2,953,809	\$ 1,519,706	\$ 1,560,742
Closing Balance	\$ 16,080,310	\$ 16,574,004	\$ 16,036,137	\$ 15,481,573	\$ 14,943,852	\$ 15,806,707	\$ 16,695,554	\$ 16,176,127	\$ 17,163,663	\$ 18,224,032
Interest	\$ 402,008	\$ 414,350	\$ 400,903	\$ 387,039	\$ 373,596	\$ 395,168	\$ 417,389	\$ 404,403	\$ 429,092	\$ 455,601

TABLE 2-B

Wastewater Development Charges Reserve Fund										
Description	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Opening Balance	\$ 266,600	\$ 328,997	\$ 408,508	\$ 492,857	\$ 582,282	\$ 677,025	\$ 777,345	\$ 883,509	\$ 995,796	\$ 913,258
Development Charge Proceeds	\$ 66,872	\$ 69,547	\$ 72,329	\$ 75,222	\$ 78,231	\$ 81,360	\$ 84,615	\$ 87,999	\$ 87,954	\$ 88,077
Transfer to Capital	\$ 12,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transfer to Operating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 192,766	\$ 192,766
Closing Balance	\$ 320,973	\$ 398,544	\$ 480,837	\$ 568,080	\$ 660,513	\$ 758,386	\$ 861,960	\$ 971,508	\$ 890,984	\$ 808,570
Interest	\$ 8,024	\$ 9,964	\$ 12,021	\$ 14,202	\$ 16,513	\$ 18,960	\$ 21,549	\$ 24,288	\$ 22,275	\$ 20,214
Required from Development Charges	\$ 12,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,739,669	\$ -	\$ -

TABLE 2-C

Wastewater Operating Reserve										
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Stabilization Reserve Opening Balance	\$ 949,865	\$ 862,365	\$ 862,365	\$ 862,365	\$ 887,365	\$ 937,365	\$ 1,012,365	\$ 1,087,365	\$ 1,162,365	\$ 1,237,365
Contributions from Operating Budget	\$ -	\$ -	\$ -	\$ 25,000	\$ 50,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
Transfer to Capital Budget	\$ 87,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contributions to Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Stabilization Reserve Closing Balance	\$ 862,365	\$ 862,365	\$ 862,365	\$ 887,365	\$ 937,365	\$ 1,012,365	\$ 1,087,365	\$ 1,162,365	\$ 1,237,365	\$ 1,312,365
10% of Operating Revenues - Lower Target Level	\$ 655,681	\$ 710,049	\$ 759,799	\$ 817,241	\$ 878,941	\$ 945,994	\$ 1,015,893	\$ 1,092,604	\$ 1,176,179	\$ 1,267,384
15% of Operating Revenues - Upper Target Level	\$ 983,522	\$ 1,065,073	\$ 1,139,698	\$ 1,225,862	\$ 1,318,411	\$ 1,418,991	\$ 1,523,839	\$ 1,638,906	\$ 1,764,268	\$ 1,901,076

TABLE 3

Description	Wastewater Operating Budget Forecast									
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Financial Expenses	\$ 20,860	\$ 20,890	\$ 20,920	\$ 21,338	\$ 21,765	\$ 22,200	\$ 22,644	\$ 23,097	\$ 23,559	\$ 24,031
General Admin-Salaries and Benefits	\$ 497,110	\$ 519,080	\$ 539,140	\$ 549,923	\$ 560,921	\$ 572,140	\$ 583,582	\$ 595,254	\$ 607,159	\$ 619,302
General Admin-Materials	\$ 2,000	\$ 2,040	\$ 2,080	\$ 2,122	\$ 2,164	\$ 2,207	\$ 2,251	\$ 2,296	\$ 2,342	\$ 2,389
General Admin-Interfunctional Transfers	\$ 800,210	\$ 816,210	\$ 832,530	\$ 849,181	\$ 866,164	\$ 883,487	\$ 901,157	\$ 919,180	\$ 937,564	\$ 956,315
Safety and Education	\$ 2,000	\$ 2,040	\$ 2,080	\$ 2,122	\$ 2,164	\$ 2,207	\$ 2,251	\$ 2,296	\$ 2,342	\$ 2,389
Sewage Treatment - Regional Charges	\$ 3,566,934	\$ 3,926,876	\$ 4,323,140	\$ 4,759,391	\$ 5,239,664	\$ 5,768,403	\$ 6,350,496	\$ 6,991,329	\$ 7,696,830	\$ 8,473,522
Sewer Lateral & Tree Root	\$ 7,000	\$ 7,140	\$ 7,280	\$ 7,426	\$ 7,574	\$ 7,726	\$ 7,880	\$ 8,038	\$ 8,198	\$ 8,362
Sewer Lateral Maintenance	\$ 25,000	\$ 25,500	\$ 26,010	\$ 26,530	\$ 27,061	\$ 27,602	\$ 28,154	\$ 28,717	\$ 29,291	\$ 29,877
Sewer Main - TV Video	\$ 112,500	\$ 114,750	\$ 117,040	\$ 119,381	\$ 121,768	\$ 124,204	\$ 126,688	\$ 129,222	\$ 131,806	\$ 134,442
Sewer Main Maintenance	\$ 78,200	\$ 79,460	\$ 80,740	\$ 82,355	\$ 84,002	\$ 85,682	\$ 87,396	\$ 89,143	\$ 90,926	\$ 92,745
Contracted Services	\$ 70,000	\$ 71,400	\$ 72,830	\$ 74,287	\$ 75,772	\$ 77,288	\$ 78,834	\$ 80,410	\$ 82,018	\$ 83,659
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Stabilization Contributions										
Transfer to Operating Reserve				\$ 25,000	\$ 50,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
Sub Total Operating Expenditures	\$ 5,181,814	\$ 5,585,386	\$ 6,023,790	\$ 6,519,054	\$ 7,059,021	\$ 7,648,146	\$ 8,266,335	\$ 8,943,984	\$ 9,687,038	\$ 10,502,034
Capital-Related										
New Growth Related Debt (Principal)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 96,878	\$ 100,268
New Growth Related Debt (Interest)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95,888	\$ 92,498
Transfer to Capital Budget										
Transfer to Capital Reserves and Reserve Funds	\$ 1,500,000	\$ 1,565,600	\$ 1,633,786	\$ 1,704,654	\$ 1,778,304	\$ 1,854,839	\$ 1,934,365	\$ 2,016,993	\$ 2,102,838	\$ 2,192,019
Sub Total Capital Related Expenditures	\$ 1,500,000	\$ 1,565,600	\$ 1,633,786	\$ 1,704,654	\$ 1,778,304	\$ 1,854,839	\$ 1,934,365	\$ 2,016,993	\$ 2,295,604	\$ 2,384,785
Total Expenditures	\$ 6,681,814	\$ 7,150,986	\$ 7,657,576	\$ 8,223,708	\$ 8,837,325	\$ 9,502,985	\$ 10,200,699	\$ 10,960,978	\$ 11,982,642	\$ 12,886,819
Non-Rate Revenues										
Leachate Treatment	\$ 75,000	\$ 76,500	\$ 78,030	\$ 79,591	\$ 81,182	\$ 82,806	\$ 84,462	\$ 86,151	\$ 87,874	\$ 89,632
Residential & Farm Supplemental	\$ 50,000	\$ 51,000	\$ 52,020	\$ 53,060	\$ 54,122	\$ 55,204	\$ 56,308	\$ 57,434	\$ 58,583	\$ 59,755
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total-Non Rate Revenues	\$ 125,000	\$ 127,500	\$ 130,050	\$ 132,651	\$ 135,304	\$ 138,010	\$ 140,770	\$ 143,586	\$ 146,457	\$ 149,387
Operating Subsidies										
Contributions from Development Charges Reserve Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 192,766	\$ 192,766
Contributions from Operating Reserve (Deficit)										
Total Operating Revenue	\$ 125,000	\$ 127,500	\$ 130,050	\$ 132,651	\$ 135,304	\$ 138,010	\$ 140,770	\$ 143,586	\$ 339,223	\$ 342,153
Net Wastewater Costs To Be Recovered From Users	\$ 6,556,814	\$ 7,023,486	\$ 7,527,526	\$ 8,091,057	\$ 8,702,021	\$ 9,364,974	\$ 10,059,929	\$ 10,817,392	\$ 11,643,419	\$ 12,544,667
Provision for Lost Revenue Due to Delayed Rate Implementation		\$ 77,001	\$ 70,461	\$ 81,357	\$ 87,385	\$ 94,969	\$ 98,998	\$ 108,647	\$ 118,368	\$ 129,175
Total Wastewater Costs To be Recovered From Users	\$ 6,556,814	\$ 7,100,487	\$ 7,597,987	\$ 8,172,413	\$ 8,789,406	\$ 9,459,943	\$ 10,158,927	\$ 10,926,039	\$ 11,761,786	\$ 12,673,842
Percent Increase in Net Cost	5.1%	8.3%	7.0%	7.6%	7.5%	7.6%	7.4%	7.6%	7.6%	7.8%

SPECIAL AREA RATE (SAR) CALCULATION

TABLE 4-A

Projected Annual Tax Rates & Revenues											
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
Annual % Increase	N/A	-19.6%	5.9%	6.5%	6.5%	6.6%	6.3%	6.5%	6.6%	6.7%	
Special Area Rates (per \$1,000 of assessment)	0.89353176	0.71853039	0.76126209	0.81070827	0.86328145	0.91994118	0.97813314	1.04157731	1.11014750	1.18438888	
Weighted Taxable Assessment (\$1,000)	\$ 4,892,058	\$ 4,940,979	\$ 4,990,389	\$ 5,040,292	\$ 5,090,695	\$ 5,141,602	\$ 5,193,018	\$ 5,244,948	\$ 5,297,398	\$ 5,350,372	
Total SAR Revenue	\$ 4,371,209	\$ 3,550,243	\$ 3,798,994	\$ 4,086,207	\$ 4,394,703	\$ 4,729,972	\$ 5,079,463	\$ 5,463,019	\$ 5,880,893	\$ 6,336,921	

UNIFORM RATE CALCULATION

TABLE 4-B

Projected Annual Uniform Wastewater Rates & Revenues										
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Annual % Increase	N/A	7.2%	6.0%	6.5%	6.5%	6.6%	6.4%	6.6%	6.8%	6.9%
Rates	\$ 1.23	\$ 1.32	\$ 1.40	\$ 1.49	\$ 1.58	\$ 1.69	\$ 1.80	\$ 1.92	\$ 2.05	\$ 2.19
Billed Wastewater Flows	1,778,317	2,693,863	2,720,250	2,746,637	2,773,025	2,799,412	2,825,799	2,852,187	2,874,449	2,896,712
Total Volumetric Rate Revenue	\$ 2,185,605	\$ 3,550,243	\$ 3,798,994	\$ 4,086,207	\$ 4,394,703	\$ 4,729,972	\$ 5,079,463	\$ 5,463,019	\$ 5,880,893	\$ 6,336,921

TOTAL WASTEWATER USER REVENUES

TABLE 5

[illegible]