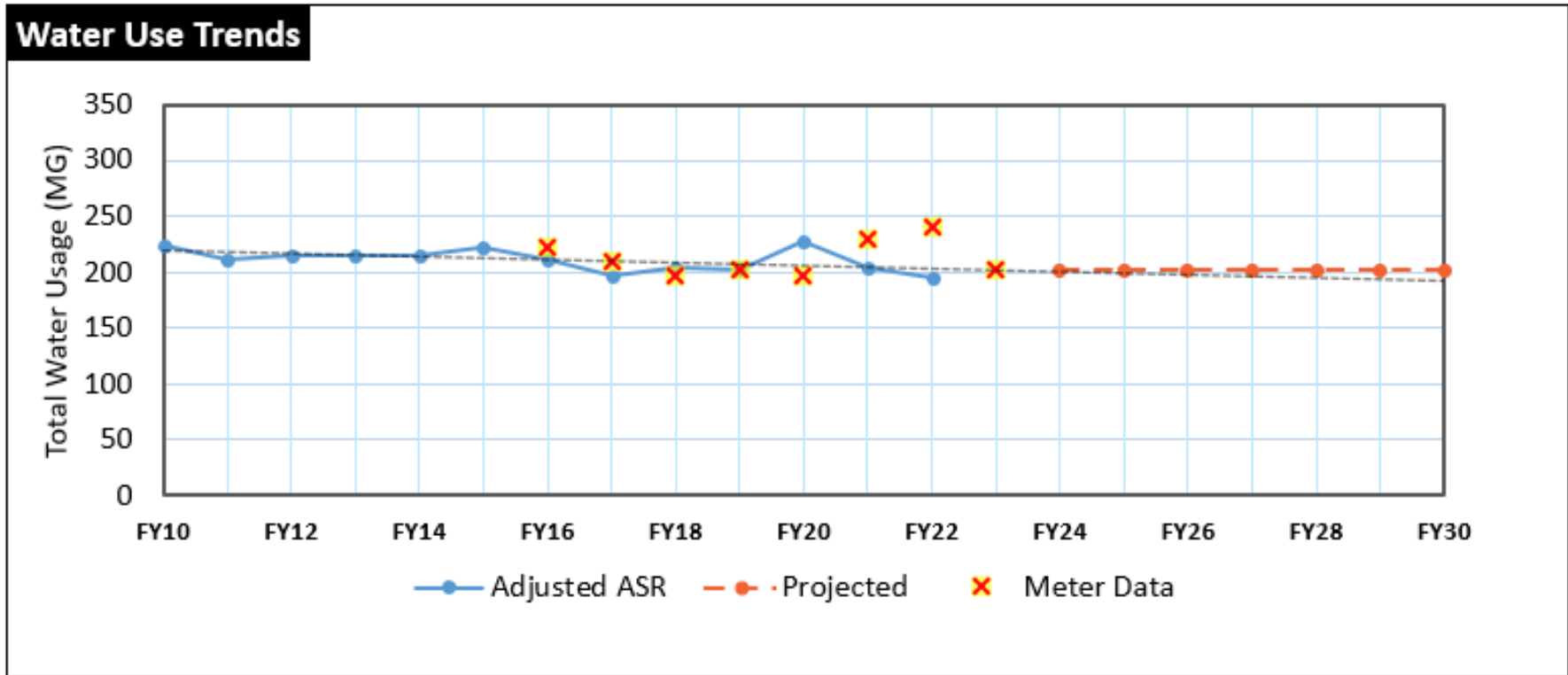




REVISED 2024 WATER & SEWER RATE UPDATE

Uxbridge Water & Sewer Commission
March 5, 2024

2024 UPDATE: WATER USAGE EVALUATION



Historic & Projected Water Use

Block	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
Tier 1	9,302,892	9,302,892	9,302,892	9,302,892	9,302,892	9,302,892	9,302,892	9,302,892
Tier 2	10,778,236	10,778,236	10,778,236	10,778,236	10,778,236	10,778,236	10,778,236	10,778,236
Tier 3	5,640,202	5,640,202	5,640,202	5,640,202	5,640,202	5,640,202	5,640,202	5,640,202
Irrigation	1,762,868	1,762,868	1,762,868	1,762,868	1,762,868	1,762,868	1,762,868	1,762,868
Total	27,484,198	27,484,198	27,484,198	27,484,198	27,484,198	27,484,198	27,484,198	27,484,198

2024 UPDATE: *WATER EXPENSES*

Capital Improvement Planner

System	Scope	Description	Funding Source	Interest Rate	Estimated Cost	Cost Year	Esc. Factor	Escalated Cost	Start Year	Term	
Distribution	Design	EAST ST. AREA IMPROVEMENTS	ARPA		\$ 398,000	2024	1.0 X	\$ 398,000	2024	1	
Enterprise	Vehicle	W-4 REPLACEMENT	Rate	--	\$ 175,000	2025	1.0 X	\$ 175,000	2025	1	
Source	Construction	BERNAT WELL REPLACEMENT PHASE 2	Debt	6.5%	\$ 1,500,000	2025	1.0 X	\$ 1,500,000	2025	20	
Treatment	Design	BLACKSTONE WTP DESIGN	BAN	1	\$ 1,000,000	2025	1.0 X	\$ 1,000,000	2025	2	
Treatment	Engineering	BLACKSTONE WTP OPM SERVICES	Debt	6.5%	\$ 500,000	2025	1.0 X	\$ 500,000	2025	5	
Distribution	Construction	RT. 16/ DOUGLAS WM CONSTRUCTION	Debt	6.5%	\$ 2,250,000	2026	1.0 X	\$ 2,250,000	2026	20	
Enterprise	Vehicle	W-3 REPLACEMENT	Rate	--	\$ 75,000	2026	1.0 X	\$ 75,000	2026	1	
Treatment	Eng.+Const.	BLACKSTONE WTP CONSTRUCTION	SRF	2	\$ 18,000,000	2027	1.0 X	\$ 16,812,000	2027	20	
Distribution	Eng.+Const.	EAST ST. AREA IMPROVEMENTS	Debt	6.5%	\$ 4,231,000	2027	1.0 X	\$ 4,231,000	2027	20	
Enterprise	Vehicle	W-9 REPLACEMENT	Rate	--	\$ 75,000	2027	1.0 X	\$ 75,000	2027	1	
Distribution	Design	HIGH STREET WM IMPROVEMENTS	Rate	--	\$ 100,000	2028	1.0 X	\$ 100,000	2028	1	
Enterprise	Vehicle	W-1 REPLACEMENT	Rate	--	\$ 75,000	2028	1.0 X	\$ 75,000	2028	1	
Distribution	Construction	HIGH STREET WM IMPROVEMENTS	Debt	6.5%	\$ 1,200,000	2023	1.2 X	\$ 1,702,230	2029	20	
Distribution	Design	RIVULET WM IMPROVEMENTS	Rate	--	\$ 100,000	2030	1.0 X	\$ 100,000	2030	1	
Distribution	Eng.+Const.	RIVULET WM IMPROVEMENTS	Debt	6.5%	\$ 1,200,000	2030	1.0 X	\$ 1,200,000	2030	20	
Distribution	Eng.+Const.	RT 122/MILLVILLE RD/ALBEE CONST	Debt	6.5%	\$ 3,825,000	2030	1.0 X	\$ 3,825,000	2030	20	
					\$ 34,704,000						\$ 34,018,230

Notes & Key Points

1. Placeholder – funding method to be confirmed (2 yr. BAN shown)
2. Adjusted to 6.6% Principal Forgiveness based upon Uxbridge change in tier

2024 UPDATE: *WATER REVENUE & EXPENSE SUMMARY*

	Budget FY21	Budget FY22	Budget FY23	Budget FY24	Budget FY25	Projected → FY26
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Operating Expenses

PERSONNEL SERVICES	\$ 655,570	\$ 648,581	\$ 762,396	\$ 502,977	\$ 904,204	\$ 935,851
PURCHASE OF SERVICES	\$ 221,740	\$ 259,190	\$ 228,640	\$ 667,221	\$ 248,140	\$ 260,547
PURCHASE OF SERVICES (Energy)	\$ 125,000	\$ 125,000	\$ 137,500	\$ 155,537	\$ 152,400	\$ 160,020
SUPPLIES	\$ 190,500	\$ 190,800	\$ 183,800	\$ 125,490	\$ 285,000	\$ 307,800
OTHER CHARGES AND EXPENSES	\$ 13,600	\$ 22,700	\$ 16,200	\$ 5,400	\$ 22,800	\$ 24,624
INDIRECTS	\$ 98,900	\$ 41,048	\$ 46,500	\$ 44,800	\$ 49,400	\$ 50,635
Subtotal	\$ 1,305,310	\$ 1,287,319	\$ 1,375,036	\$ 1,501,425	\$ 1,661,944	\$ 1,739,477
<i>Delta Previous</i>		▼ 1.4%	▲ 6.8%	▲ 9.2%	▲ 10.7%	▲ 4.7%

Capital Expenses

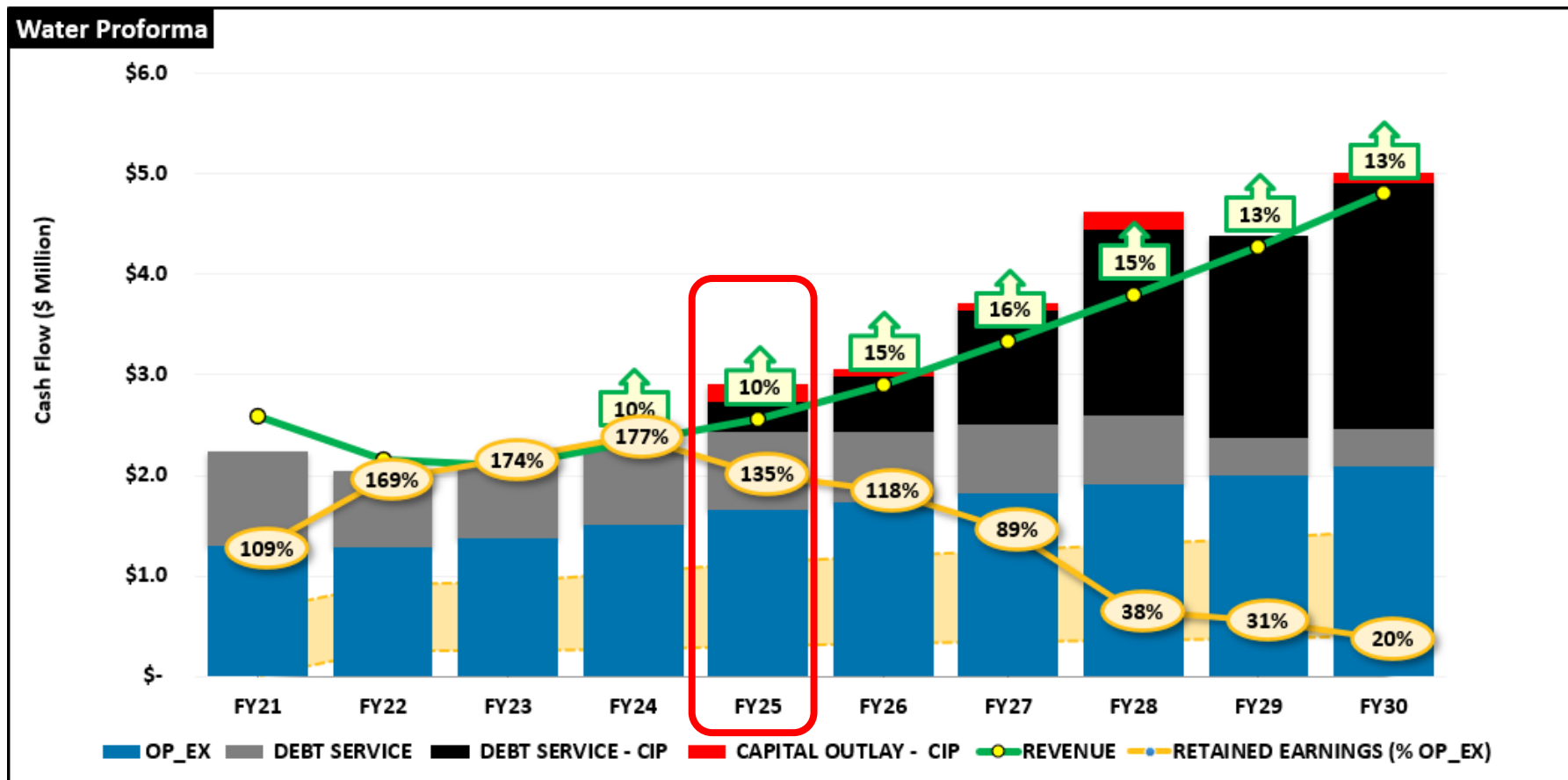
CAPITAL OUTLAY	\$ 1,399,785	\$ 26,334	\$ 56,000	\$ -	\$ 185,000	\$ 185,000
CAPITAL OUTLAY - CIP				\$ -	\$ 175,000	\$ 75,000
Subtotal	\$ 1,399,785	\$ 26,334	\$ 56,000	\$ -	\$ 360,000	\$ 260,000
DEBT SERVICE	\$ 935,230	\$ 764,236	\$ 765,670	\$ 762,141	\$ 764,803	\$ 687,153
DEBT SERVICE - CIP					\$ 305,000	\$ 552,375
Subtotal	\$ 935,230	\$ 764,236	\$ 765,670	\$ 762,141	\$ 1,069,803	\$ 1,239,528

TOTAL EXPENSES	\$ 3,640,325	\$ 2,077,889	\$ 2,196,706	\$ 2,263,566	\$ 3,091,747	\$ 3,239,005
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Revenue	<i>Rate Increase</i>			10%	10%	15%
Rate Revenue	\$ 1,926,920	\$ 1,586,859	\$ 1,707,218	\$ 1,945,779	\$ 2,140,357	\$ 2,461,410
Non-Rate Revenue	\$ 668,472	\$ 565,617	\$ 386,614	\$ 396,543	\$ 416,198	\$ 437,817
Total Revenue	\$ 2,595,392	\$ 2,152,477	\$ 2,093,832	\$ 2,342,322	\$ 2,556,554	\$ 2,899,228
<i>Delta previous (Rate Revenue)</i>		▼ 17.6%	▲ 7.6%	▲ 14.0%	▲ 10.0%	▲ 15.0%

Retained Earnings (Begin Year)	\$ 1,275,889	\$ 1,961,873	\$ 2,123,734	\$ 2,158,364	\$ 2,387,262	\$ 2,018,264
Net Revenue (+/-)			\$ 90,630	\$ 228,899	\$ (8,998)	\$ 94,170
Capital Outlay			\$ (56,000)	\$ -	\$ (360,000)	\$ (260,000)
Retained Earnings (End)	\$ 1,275,889	\$ 1,961,873	\$ 2,158,364	\$ 2,387,262	\$ 2,018,264	\$ 1,852,434

2024 UPDATE: *WATER REVENUE & EXPENSE SUMMARY*



2024 UPDATE: SEWER REVENUE & EXPENSE SUMMARY

	Budget FY21	Budget FY22	Budget FY23	Budget FY24	Budget FY25	Projected → FY26
Operating Expenses						
PERSONNEL SERVICES	\$ 733,612	\$ 687,415	\$ 766,730	\$ 788,626	\$ 837,600	\$ 866,916
PURCHASE OF SERVICES	\$ 636,690	\$ 568,500	\$ 505,370	\$ 498,570	\$ 648,330	\$ 680,747
SUPPLIES	\$ 185,700	\$ 204,700	\$ 172,500	\$ 148,500	\$ 174,500	\$ 183,225
OTHER CHARGES AND EXPENSES	\$ 246,000	\$ 249,500	\$ 263,100	\$ 308,400	\$ 347,200	\$ 347,200
INDIRECTS	\$ 100,000	\$ 35,791	\$ 187,718	\$ 262,135	\$ 254,237	\$ 260,593
Subtotal	\$ 1,902,002	\$ 1,745,906	\$ 1,895,418	\$ 2,006,231	\$ 2,261,867	\$ 2,338,680
<i>Delta Previous</i>		-8.2%	8.6%	5.8%	12.7%	3.4%
Capital Expenses						
CAPITAL OUTLAY	\$ 310,000	\$ 24,334	\$ 300,000	\$ 300,000	\$ 595,000	
CAPITAL OUTLAY - CIP						\$ 615,000
Subtotal	\$ 310,000	\$ 24,334	\$ 300,000	\$ 300,000	\$ 595,000	\$ 615,000
DEBT SERVICE	\$ 1,793,300	\$ 1,796,266	\$ 1,796,091	\$ 1,797,700	\$ 1,798,300	\$ 1,799,168
Subtotal	\$ 1,793,300	\$ 1,796,266	\$ 1,796,091	\$ 1,797,700	\$ 1,798,300	\$ 1,799,168
<i>Delta Previous</i>				0.1%	0.0%	0.0%
TOTAL EXPENSES	\$ 4,005,302	\$ 3,566,506	\$ 3,991,509	\$ 4,103,931	\$ 4,655,167	\$ 4,752,848
<i>Delta Previous</i>				2.8%	13.4%	2.1%
Revenue						
	<i>Rate Increase</i>					
Rate Revenue	\$ 2,577,532	\$ 2,552,294	\$ 2,811,174	\$ 2,760,072	\$ 2,760,072	\$ 2,760,072
Non-Rate Revenue	\$ 1,086,444	\$ 1,206,838	\$ 983,874	\$ 979,825	\$ 981,675	\$ 981,675
Total Revenue	\$ 3,663,976	\$ 3,759,132	\$ 3,795,048	\$ 3,739,897	\$ 3,741,747	\$ 3,741,747
<i>Delta previous (Rate Revenue)</i>			\$ 258,880	\$ (51,102)	\$ -	\$ -
Retained Earnings (Begin Year)	\$ 1,711,480	\$ 1,985,263	\$ 2,460,946	\$ 2,454,027	\$ 2,590,616	\$ 2,498,383
Net Revenue (Revenue-Expense)	\$ 158,874	\$ 391,551	\$ 293,081	\$ 136,590	\$ (92,233)	\$ (162,233)
CAPITAL OUTLAY	\$ (310,000)	\$ (24,334)	\$ (300,000)	\$ (300,000)	\$ (595,000)	\$ (615,000)
Fund Balance	\$ 1,985,263	\$ 2,460,946	\$ 2,454,027	\$ 2,590,616	\$ 2,498,383	\$ 2,336,149
Retained Earnings as Percent of OpEx	104%	136%	129%	129%	110%	100%

2024 UPDATE: *SEWER EXPENSES*

Capital Improvement Plan - Sewer

System	Scope	Description	Funding Source	Interest Rate	Estimated Cost	Cost Year	Esc. Factor	Escalated Cost	Start Year	Term
Enterprise	Equipment	Replacement for Landfill Mover	ARPA		\$ 45,000	2023	1.00	\$ 45,000	2023	1
Enterprise	Equipment	S5 Replacement F250	Rate	--	\$ 65,000	2026	1.00	\$ 65,000	2026	1
Treatment	Equipment	S2 Replacement F550	Rate	--	\$ 90,000	2028	1.00	\$ 90,000	2028	1
Distribution	Equipment	S1 Replacement F250	Rate	--	\$ 65,000	2029	1.00	\$ 65,000	2029	1
Source	Equipment	S4 Replacement Jet/Vac	Rate	--	\$ 500,000	2033	1.00	\$ 500,000	2033	1
Enterprise	Equipment	S3 Replacement F250	Rate	--	\$ 65,000	2029	1.00	\$ 65,000	2029	1
Collection	Construction	Inflow/Infiltration Engineering and Construction	Rate	--	\$ 300,000	2023	1.00	\$ 550,000	2023	20
TOTAL					\$ 1,130,000					

RECOMMENDED RATES

Water Rates

		10.0%	10.0%
Description	Type	FY24	FY25
5/8"	Quarterly Fee	\$27.50	\$30.25
3/4"	Quarterly Fee	\$41.25	\$45.38
1"	Quarterly Fee	\$68.75	\$75.63
1.5"	Quarterly Fee	\$137.50	\$151.25
2"	Quarterly Fee	\$220.00	\$242.00
3"	Quarterly Fee	\$412.50	\$453.75
4"	Quarterly Fee	\$687.50	\$756.25
6"	Quarterly Fee	\$1,375.00	\$1,512.50
Tier 1	Usage	\$3.15	\$3.46
Tier 2	Usage	\$6.25	\$6.87
Tier 3	Usage	\$9.10	\$10.01
Irrigation	Usage	\$10.66	\$11.72

Sewer Rates

Description	Type	FY24	FY25
Base Charge	Quarterly Fee	\$115.59	\$115.59
Usage	Usage	\$18.50	\$18.50
Flat Rate	Quarterly Fee	\$300.98	\$300.98

RESIDENTIAL FINANCIAL BURDEN & AFFORDABILITY

Measuring Affordability. Affordability, like temperature, is highly subjective. To determine whether or not water and sewer costs represents a financial burden we use the two most common and appropriate indicators.

Annual Cost for 3 person household using 50 gallons per person per day

Utility	FY24	FY25	FY26	FY27	FY28	FY29	FY30
Water	\$ 468.06	\$ 514.87	\$ 592.10	\$ 686.83	\$ 789.86	\$ 892.54	\$ 1,008.57
Sewer	\$ 1,224.47	\$ 1,224.47	\$ 1,224.47	\$ 1,224.47	\$ 1,224.47	\$ 1,224.47	\$ 1,285.69
Total	\$ 1,692.53	\$ 1,739.34	\$ 1,816.57	\$ 1,911.30	\$ 2,014.33	\$ 2,117.01	\$ 2,294.26
<i>Increase</i>	<i>\$ 804.66</i>	<i>\$ 46.81</i>	<i>\$ 77.23</i>	<i>\$ 94.74</i>	<i>\$ 103.02</i>	<i>\$ 102.68</i>	<i>\$ 177.25</i>

The Residential Indicator. Adopted from EPA guidance developed in the late 90's to determine the cost impacts of federal regulatory programs, this indicator divides the total annual cost of water and sewer and divides it by the median household income. A score of 4% or more is considered to be a financial burden.

Residential Indicator: Total Annual Cost as % Median Household Income (MHI)

Scenario	FY24	FY25	FY26	FY27	FY28	FY29	FY30
Total	1.4%	1.4%	1.5%	1.5%	1.6%	1.7%	1.8%

The Household Burden Indicator. Introduced in 2019, this indicator is based the lowest quintile income (the lowest 20%), which is more representative of household financial status. The second component, the Poverty Prevalence Indicator is the percentage of the community below 200% of the Federal Poverty Level. The burden is determined by using the chart below.

Housefold Burden Indicator (HBI): Total Annual Cost as % Lowest Quintile Income (LQI)

Scenario	FY24	FY25	FY26	FY27	FY28	FY29	FY30
Total	2.7%	2.8%	2.9%	3.0%	3.2%	3.4%	3.7%

Uxbridge Income Data (US Census)

Median Household Income: **\$124,682**

Lowest Quintile Income: **\$62,056**

Poverty Prevalence Indicator: **9%**

Household Burden Indicator	Poverty Prevalence Indicator		
	>= 35%	20% to 35%	<20%
> = 10%	Very High Burden	High Burden	Moderate – High Burden
7% to 10%	High Burden	Moderate – High Burden	Moderate - Low Burden
<7%	Moderate - High Burden	Moderate - Low Burden	Low Burden

RATE COMPARISON FOR UXBRIDGE

