

## CITY OF HENDERSONVILLE WATER SEWER ADVISORY COUNCIL

Operations Center - Assembly Room | 305 Williams St. | Hendersonville NC 28792 Monday, April 24, 2023 – 6:00 PM

### **MINUTES**

Present:

City of Hendersonville Council Member & Chair Jerry Smith, County Commissioner & Vice Chairman Daniel Andreotta, City of Hendersonville Council Member Debbie Roundtree, City of Hendersonville Water/Sewer Customer Representative Chuck McGrady, Henderson County Water/Sewer Customer Representative Andrew Riddle, Village of Flat Rock Council Member David Dethero, Town of Fletcher Council Member Sheila Franklin, Town of Laurel Park Council Member Paul Hansen, City of Saluda Council Member Stan Walker, Town of Mills River Mayor Pro-Tem Randy Austin, and Partnership for Economic Development Representative Carsten Erkel

Staff Present:

City Manager John Connet, Assistant City Manager Brian Pahle, Budget Manager Adam Murr, City Engineer Brent Detwiler, Utilities Director Lee Smith and Utilities Engineer Adam Steurer and others.

Others Present: Stantec Senior Principal David Hyder

### 1. CALL TO ORDER

Chairman Jerry Smith called the meeting to order at 6:00 p.m. and welcomed those in attendance.

### 2. APPROVAL OF AGENDA

Chuck McGrady moved to approve the agenda as presented. A unanimous vote of the Council Members present followed. Motion carried.

### 3. APPROVAL OF MINUTES

A. Approval of the January 23, 2023 Minutes.

Paul Hansen moved to approve the minutes of January 23, 2023 as presented. A unanimous vote of the Council Members present followed. Motion carried.

#### 4. OLD BUSINESS

There was no Old Business.

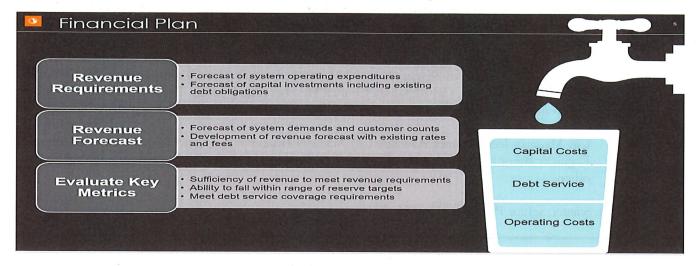
### 5. **NEW BUSINESS**

A. Stantec Presentation on 2023 W&S Rate Study - Adam Murr, Budget Manager

The City of Hendersonville has partnered with Stantec's Financial Services Team to complete a water and sewer rate study and system development fee analysis. Stantec's Financial Services Team specializes in utility financial management and has provided their services to over 30 communities in the State of North Carolina alone. Stantec also maintains a robust national and international consulting

presence. The City and Stantec have worked together in recent months to collect relevant data and metrics to support the rate study. At this time, Stantec will provide an overview presentation on the rate study process, opportunities for guidance, and desired outcomes. Nearing the end of the study, Stantec will provide an update on findings and recommendations to be considered by City Council upon budget adoption at the 06/01/2023 regular meeting of the City Council.

Dave Hyder, Stantec Senior Principal gave a PowerPoint presentation to Council.



### Financial Assumptions

#### **Operating Expenditures**

- FY 24 budget used as a starting point for modeling
- Annual inflation by expenditure type to develop a 10-year forecast

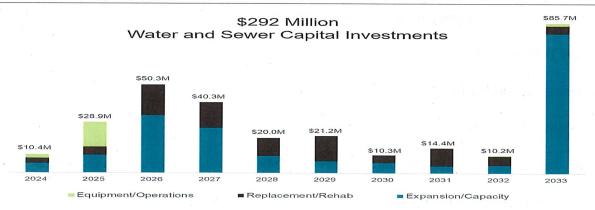
### **Capital Expenditures**

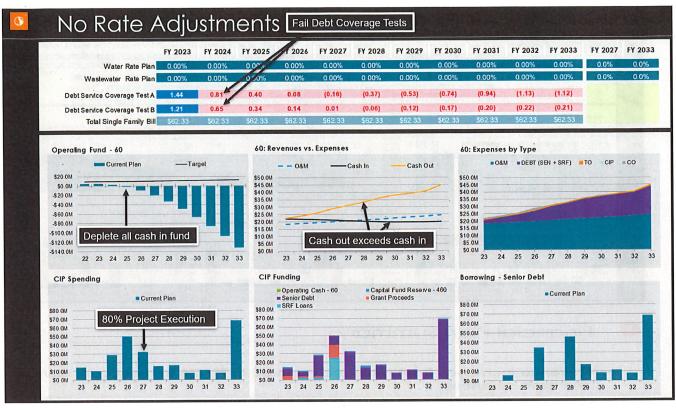
- Annual payment of existing debt service (FY 24 payment of \$3.9M)
- Ten-year capital plan
  - o Funded with a blend of future borrowing and cash

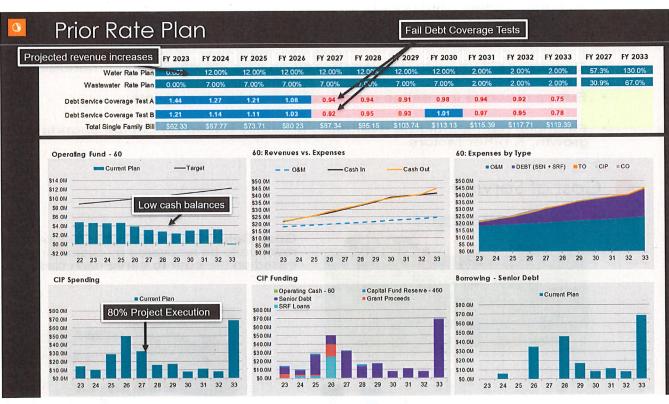
#### Revenues

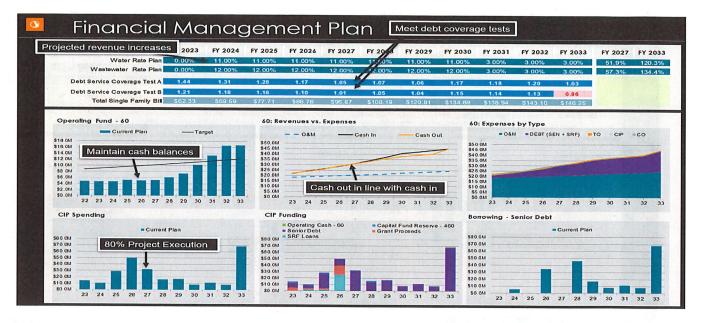
- FY 24 budget used for non-rate revenue (assumed to remain flat over forecast period)
- Growth in customers at 0.5% inside City and 1.0% outside annually
- User rates adjusted as part of financial plan

### Capital Improvement Plan





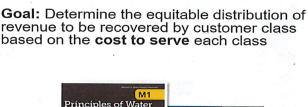


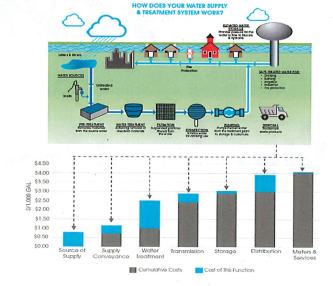


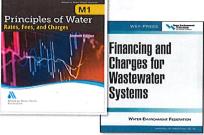
### Financial Plan Summary

- Revenue increases from rates are required in FY 24 to meet debt coverage and cash balances
- · Recommended adjustments
  - o Water revenue increase: 11.00%
  - o Sewer revenue increase: 12.00%
- Customer bill impacts will vary based on rate structure recommendations
- Future revenue increases will be required at similar levels
- Financial plan should be evaluated annually based on capital spending, growth, & other factors

### Cost of Service





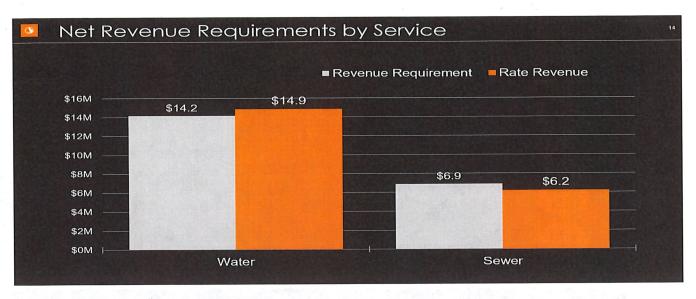


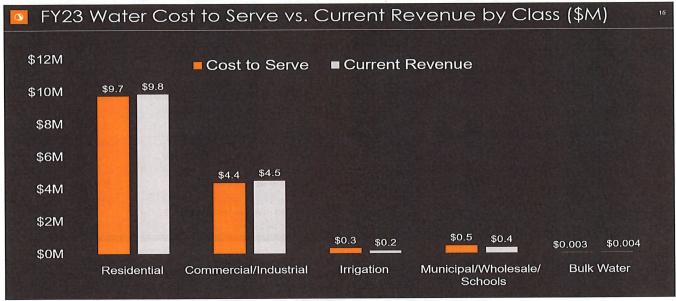
Use of Industry Standard Approaches

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## Cost of Service Summary

- Modest misalignment between water and sewer costs and revenue generated (~ 3% of revenues)
  - Recommend balancing of water and sewer cost of service and revenues over time
  - o Financial plan reflects this balancing
- Customer class cost of service is closely aligned with recovery by class
  - Rate structure modifications designed to fully align with the cost of service

### Pricing Goals and Objectives



Customer Affordability - Ability to provide service for basic needs at affordable prices



Rate and Revenue Stability - Limit volatility in annual revenues and rate adjustments



Cost of Service Based - Alignment between use of service and utility bill



Administrative and Customer Understanding - Ability to administrate and



Legal Defensibility - Comply with industry standard and legal requirements

## City's Current Water Rates

Water Base Charges	Inside City	Outside City					
3/4"	\$8.32	\$11.23					
1"	\$9.71	\$13.11					
1.5"	\$13.15	\$17.75					
2"	\$17.55	\$23.69					
3"	\$27.88	\$37.64					
4"	\$42.60	\$57.51					
6"	\$79.40	\$107.19					
8"	\$123.56	\$166.81					

Public Schools	
Base Charge Per Acct	\$8.32
All Usage	\$4.48

Water Volumetric Rates (per 1,000 gallon)	Inside City	Outside City
Residential		
0 to 6,000 gal.	\$4.48	\$6.05
6,001 to 14,000 gal.	\$4.93	\$6.65
14,001 gal. and over	\$5.60	\$7.56
Commercial/Industrial		
0 to 40,000 gal.	\$4.48	\$6.05
40,001 to 200,000 gal.	\$4.28	\$5.78
200,001 gal. and over	\$3.80	\$5.13
Irrigation		
0 to 40,000 gal.	\$5.60	\$7.56
40,001 gal. and over	\$6.10	\$8.06
Municipal/Wholesale	\$4	1.48
Bulk Water	\$7	7.56

## City's Current Sewer Rates

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	Sewer Base Charges	Inside City	Outside City
	3/4"	\$8.92	\$13.38
	1"	\$11.25	\$16.88
	1.5"	\$17.05	\$25.58
	2"	\$24.03	\$36.05
	3"	\$40.44	\$60.66
	4"	\$63.89	\$95.84
No. of the	6"	\$122.45	\$183.68
	8"	\$192.75	\$289.13

Sewer Volumetric Rates (per 1,000 gallon)	Inside City	Outside City
Residential / Commercial	1810.01	
All Usage	\$6.33	\$9.50
<b>三京 44 上版</b> 1 1 1 1 1 1		
Public Schools		
Base Charge Per Acct	\$8.9	2
All Usage	\$6.3	3
Municipal		
Base Charge Per Acct	\$8.9	2
All Usage	\$9.5	0

### Rate Structure Recommendations

### Water and Sewer Base Charge

- o Increase the portion of revenues collected from base charge
- o Scale fixed charges consistent with industry standards

### Residential / Irrigation Water Rates

- o Modify the tier quantities and differences in pricing between tiers
  - Creation of a "life-line" tier increased customer bill control / affordability

Outsid Total \$12 \$15 \$22 \$31 \$57 \$92 \$19

Enhance conservation incentive – aligns with cost of service

### Commercial / Industrial Water Rates

o Move to a uniform rate in FY 2024

## Water Base Charges

### Recommended FY 24 Water Base Charges

Meter Size	Inside City Account Charge	Inside City RTS Charge	Inside City Total Base Charge
3/4"	\$6.73	\$3.23	\$9.96
1"	\$6.73	\$5.39	\$12.12
1.5"	\$6.73	\$10.77	\$17.50
2"	\$6.73	\$17.24	\$23.97
3"	\$6.73	\$37.71	\$44.44
4"	\$6.73	\$64.65	\$71.38
6"	\$6.73	\$145.46	\$152.19
8"	\$6.73	\$172.39	\$179.12

### FY 23 Base Charges

le City Base irge	Inside City	Outside City
2.95	\$8.32	\$11.23
5.75	\$9.71	\$13.11
2.76	\$13.15	\$17.75
1.16	\$17.55	\$23.69
7.77	\$27.88	\$37.64
2.79	\$42.60	\$57.51
7.84	\$79.40	\$107.19
2.86	\$123.56	\$166.81

Recommended base charges along with recommend volumetric rates would generate a 11% increase in water revenues

## Water Volumetric Rates: Life-line Tier

Addition of an initial quantity of water for basic indoor water needs at a lower rate



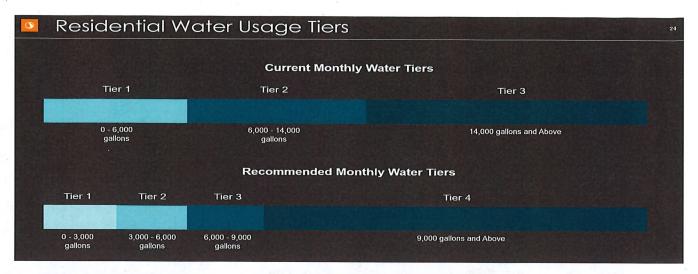




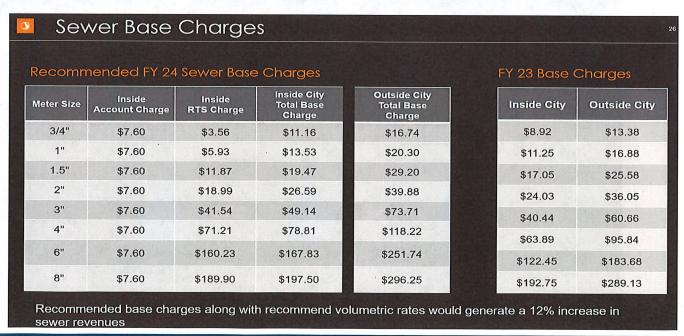




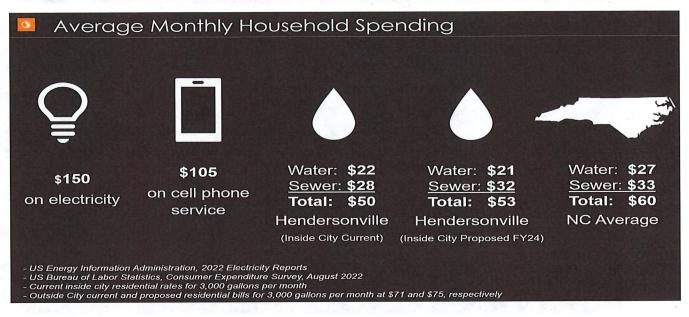
Life-line Tier = 3,000 gallons

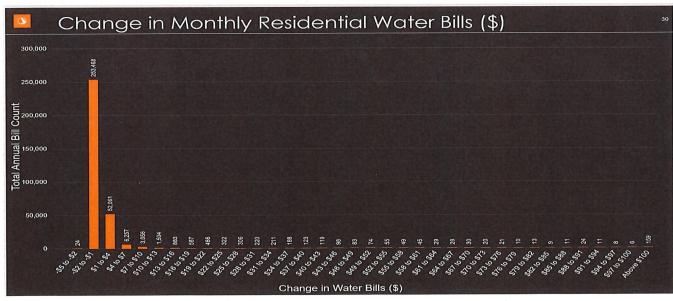


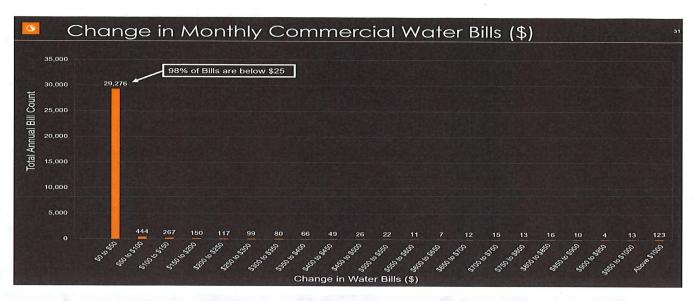
Rate Differential		A CO MODE OF TAXABLE PARTY.	THE PROPERTY OF STREET
	Inside City	Outside City	W. S.
0.75	\$3.76	\$4.89	1
1.00	\$5.01	\$6.51	Addition of Life-line Tier /
1.25	\$6.26	\$8.14	Enhanced
1.50	\$7.52	\$9.77	Conservation
1.00	\$5.01	\$6.51	Transition to
1.00	\$5.01	\$6.51	Transition to Uniform Rates
1.00	\$5.01	\$6.51	
2.00	\$10.02	\$13.03	Enhanced
2.10	\$10.52	\$13.68	∫ Conservation
	\$5	5.01	
	1.00 1.25 1.50 1.00 1.00 1.00	1.00 \$5.01 1.25 \$6.26 1.50 \$7.52 1.00 \$5.01 1.00 \$5.01 1.00 \$5.01 2.00 \$10.02 2.10 \$10.52	1.00     \$5.01     \$6.51       1.25     \$6.26     \$8.14       1.50     \$7.52     \$9.77       1.00     \$5.01     \$6.51       1.00     \$5.01     \$6.51       1.00     \$5.01     \$6.51       2.00     \$10.02     \$13.03

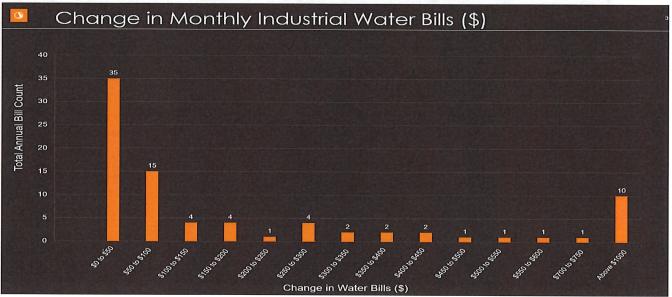


Sewer Volum	etric Rat	es						
Recommended FY 24 Se	ewer Rates		FY 23 Sewer Rates					
Sewer Volumetric Rates (per 1,000 gallon)	Inside City	Outside City	Sewer Volumetric Rates (per 1,000 gallon)	Inside City	Outside City			
Residential / Commercial			Residential / Commercial					
All Usage	\$6.88	\$10.32	All Usage	\$6.33	\$9.50			
Wholesale / Municipal			Wholesale / Municipal					
All Usage	\$1	0.32	All Usage	.50				
Public Schools	Mark Mark		Public Schools	THE PERSON NAMED IN				
Base Charge Per Acct	\$11.	16	Base Charge Per Acct	\$8.92				
All Usage	\$6.8	38	All Usage \$6.33					
Municipal			Municipal					
Base Charge Per Acct	\$11.	16	Base Charge Per Acct \$8.92					
All Usage	\$10.	32	All Usage \$9.50					





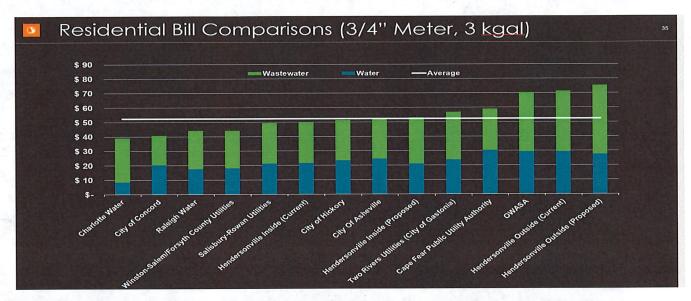


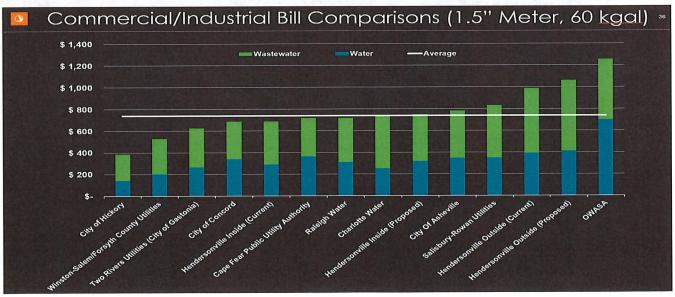


## Sample Residential Monthly Bills (3/4") - Inside

			N. D.		Water Bill	(Ins	lde)		3	Sewer Bill (Inside)						Total Bill (Inside)						
Meter Size	Usage (gal)	Cur	rent Bill	Pro	posed Bill	\$ 0	Change	% Change	Cui	rent Bill	Pro	posed Bill	\$	Change	% Change	Cu	rrent Bill	Pro	posed Bill	\$ (	Change	% Change
3/4	1,000	\$	12.80	\$	13.72	\$	0.92	7.2%	\$	15.25	\$	18.04	\$	2.79	18.3%	\$	28.05	\$	31.76	S	3.71	13.2%
3/4	2,000	\$	17.28	\$	17.48	\$	0.20	1.2%	\$	21.58	\$	24.92	\$	3.34	15.5%	\$	38.86	S	42.40	S	3.54	9.1%
3/4	3,000	\$	21.76	\$	21.24	\$	(0.52)	-2.4%	\$	27.91	\$	31.80	\$	3.89	13.9%	\$	49.67	S	53.04	S	3.37	6.8%
3/4	4,000	\$	26.24	\$	26.25	\$	0.01	0.0%	\$	34.24	\$	38.68	\$	4.44	13.0%	\$	60.48	S	64.93	S	4.45	7.4%
3/4	5,000	\$	30.72	\$	31.26	\$	0.54	1.8%	\$	40.57	\$	45.56	S	4.99	12.3%	S	71.29		76.82	S	5.53	7.8%
3/4	6,000	\$	35.20	\$	36.27	\$	1.07	3.0%	\$	46.90	S	52.44	s	5.54	11.8%	s	82.10	•	88.71	s	6.61	8.1%
3/4	7,000	\$	40.13	\$	42.53	\$	2.40	6.0%	\$	53.23	\$	59.32	\$	6.09	11.4%	s			101.86	S	8.50	9.1%
3/4	8,000	\$	45.06	\$	48.80	\$	3.74	8.3%	\$	59.56	\$	66.20	\$	6.64	11.2%	s	104.62		115.00	s	10.38	9.9%
3/4	9,000	\$	49.99	\$	55.06	\$	5.07	10.1%	\$	65.89	\$	73.09	\$	7.20	10.9%	s	115.88		128.15	s	12.27	10.6%
3/4	10,000	\$	54.92	\$	62.58	\$	7.66	13.9%	\$	72.22	S	79.97	s	7.75	10.7%	s	127.14			S	15.40	12.1%
3/4	11,000	\$	59.85	\$	70.09	\$	10.24	17.1%	\$	78.55	S	86.85	S	8.30	10.6%	s			156.94	s	18.54	13.4%
3/4	12.000	s	64.78	S	77.61	S	12.83	19.8%	s	84.88	-	93.73	S	8.85	10.4%	s		-	171.34	Š	21.68	14.5%
3/4	13,000	\$	69.71	\$	85.13	\$	15.42	22.1%	s		s	100.61	s	9.40	10.3%	S	160.92		185.73	s	24.81	15.4%
3/4	14,000	s	74.64	s	92.64	s	18.00	24.1%	s		s.	107.49	s	9.95	10.2%	s	172.18		200.13	S	27.95	16.2%
3/4	15,000	s	80.24	S	100.16	S	19.92	24.8%	s	103.87	s	114.37	s	10.50	10.1%	s	184.11	Š	214.53	S	30.42	16.5%
3/4	16,000	s	85.84	-	107.67	S	21.83	25.4%	s				S	11.05	10.0%	s	196.04	-	228.92	S	32.88	16.8%
3/4	17,000	s	91.44	s	115.19	\$	23.75	26.0%	s	116.53	-		S	11.60	10.0%	s		S		S	35.35	17.0%
3/4	18,000	s	97.04	-	122.71	S	25.67	26.5%	s	122.86		135.01	S	12.15	9.9%	S	219.90	•		S	37.82	17.0%
3/4	19,000	Š	102.64		130.22	S	27.58	26.9%	s		s	141.89	S	12.70	9.8%	s	231.83	S	272.12	S	40.29	17.4%
3/4	20,000	s	108.24	s	137.74	S	29.50	27.3%	s	135.52	S	148.77	S	13.25	9.8%	S	243.76	S	286.51	S	42.75	17.4%

	No. of Contract of			V	ater Bill (0	Duts	ide)			-	S	ewer Bill (	Out	side)		vi			Total Bill (	Out	side)	
Meter Size	Usage (gal)	Cur	rent BIII	Prop	osed BIII	\$ C	hange	% Change	Cu	rrent Bill	Pro	osed Bill	\$	Change	% Change	Cui	rent Bill	Pro	posed BIII	\$	Change	% Change
3/4	1,000	\$	17.28	\$	17.84	\$	0.56	3.2%	\$	22.88	\$	27.06	\$	4.18	18.3%	\$	40.16	\$	44.90	\$	4.74	11.8%
3/4	2,000	\$	23.33	\$	22.72	\$	(0.61)	-2.6%	\$	32.37	\$	37.38	\$	5.01	15.5%	\$	55.70	\$	60.10	\$	4.40	7.9%
3/4	3,000	\$	29.38	\$	27.61	\$	(1.77)	-6.0%	\$	41.87	\$	47.70	\$	5.84	13.9%	\$	71.24	\$	75.31	\$	4.07	5.7%
3/4	4,000	\$	35.42	\$	34.12	\$	(1.30)	-3.7%	\$	51.36	\$	58.02	\$	6.66	13.0%	\$	86.78	\$	92.14	\$	5.36	6.2%
3/4	5,000	S	41.47	\$	40.64	\$	(0.84)	-2.0%	\$	60.86	\$	68.34	S	7.49	12.3%	\$	102.33	\$	108.98	\$	6.65	6.5%
3/4	6,000	\$	47.52	\$	47.15	\$	(0.37)	-0.8%	\$	70.35	\$	78.66	\$	8.31	11.8%	\$	117.87	\$	125.82	\$	7.95	6.7%
3/4	7,000	\$	54.18	\$	55.29	\$	1.12	2.1%	\$	79.85	\$	88.99	\$	9.14	11.4%	\$	134.02	S	144.28	\$	10.26	7.7%
3/4	8,000	\$	60.83	\$	63.44	\$	2.60	4.3%	\$	89.34	\$	99.31	\$	9.97	11.2%	\$	150.17	\$	162.74	\$	12.57	8.4%
3/4	9,000	\$	67.49	\$	71.58	\$	4.09	6.1%	\$	98.84	\$	109.63	\$	10.79	10.9%	\$	166.32	\$	181.21	\$	14.88	8.9%
3/4	10,000	S	74.14	\$	81.35	\$	7.21	9.7%	\$	108.33	\$	119.95	\$	11.62	10.7%	\$	182.47	\$	201.30	\$	18.83	10.3%
3/4	11,000	\$	80.80	\$	91.12	\$	10.32	12.8%	\$	117.83	\$	130.27	S	12.44	10.6%	\$	198.62	\$	221.39	\$	22.77	11.5%
3/4	12,000	\$	87.45	\$	100.89	\$	13.44	15.4%	\$	127.32	\$	140.59	\$	13.27	10.4%	\$	214.77	\$	241.48	\$	26.71	12.4%
3/4	13,000	\$	94.11	\$	110.66	\$	16.56	17.6%	\$	136.82	\$	150.91	\$	. 14.10	10.3%	\$	230.92	\$	261.58	\$	30.65	13.3%
3/4	14,000	\$	100.76	\$	120.43	\$	19.67	19.5%	\$	146.31	\$	161.23	\$	14.92	10.2%	\$	247.07	\$	281.67	\$	34.59	14.0%
3/4	15,000	\$	108.32	\$	130.21	\$	21.88	20.2%	\$	155.81	\$	171.55	\$	15.75	10.1%	\$	264.13	\$	301.76	\$	37.63	14.2%
3/4	16,000	\$	115.88	\$	139.98	5	24.09	20.8%	\$	165.30	\$	181.88	\$	16.58	10.0%	\$	281.18	\$	321.85	\$	40.67	14.5%
3/4	17,000	\$	123.44	\$	149.75	\$	26.30	21.3%	\$	174.80	\$	192.20	\$	17.40	10.0%	\$	298.24	\$	341.94	\$	43.71	14.7%
3/4	18,000	\$	131.00	\$	159.52	\$	28.52	21.8%	\$	184.29	\$	202.52	\$	18.23	9.9%	\$	315.29	\$	362.04	\$	46.74	14.8%
3/4	19,000	s	138.56	\$	169.29	S	30.73	22.2%	\$	193.79	\$	212.84	\$	19.05	9.8%	\$	332.35	\$	382.13	\$	49.78	15.0%
3/4	20,000	\$	146.12	\$	179.06	\$	32.94	22.5%	\$	203.28	\$	223.16	\$	19.88	9.8%	\$	349.40	\$	402.22	\$	52.82	15.1%





### System Development Fees

- Fees charged for new connections joining the water and wastewater system and connections requiring additional system capacity
- Intended to recover the cost of constructing water and wastewater capacity, "growth pays for growth"
- Fees are applied based on units of service (representing potential demand on utility system / large user vs. small user)
- Fees are legislated in North Carolina
   Public Water and Sewer System Development Fee Act (NC General Statutes Chapter 162A Article 8) approved July 2017

### System Development Fee Considerations

- SDFs allow community to recover at least a portion of cost of constructing system infrastructure
- · Lack of SDFs places full cost of infrastructure on user rates
- SDFs have potential impact on development but are very common in North Carolina
- · Requirements and limitations on the use of SDFs given legislation
  - Separate tracking of revenues from SDFs
  - o Limitations on use of proceeds depending on approach

## Approach / Methodologies

Methodology

**Buy-In Method** 

**Incremental Cost** 

Method

**Combined Method** 

Pees are based on cost of constructing existing utility system

System with ample existing capacity to sell

System with limited or no existing capacity to sell

System with limited or no existing capacity to sell

System with existing capacity to sell

with planning growth-related capital

projects

Recommend the use of the combined-in method for water and sewer SDFs for City

system and planned capital

improvements

### Combined Method SDF Calculation

System Development Fee =

Value of System - Credit

System Capacity

### 1) Value of Utility System

- · Depreciated value of current assets in place, escalated to current replacement cost
- Plus: The value of future planned capital projects that will add capacity to the system (10-Year Capital Plan)

#### 2) Credits

- · Outstanding principal on existing utility debt
- NPV of principal on future debt over planning period (must equal at least 25% of expansion capital projects, if not additional credit required
- Donated/contributed and non-core system assets

#### 3) System Capacity

Total capacity in the utility system measured in units of service (Equivalent Residential Units or ERUs) with the existing system and expansion of the system

### Water SDF Calculation

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2010年以下的一种 1000年度	Source / Treatment	Transmission / Distribution	Total
Replacement Value of Existing Depreciated Assets	\$34,607,998	\$51,705,500	\$86,313,497
Expansion Capital Projects	63,485,535	45,005,000	108,490,535
Total Value	\$98,093,533	\$96,710,500	\$194,804,032
Less Credits			
Outstanding Debt Principal	(\$7,240,635)	(\$10,817,749)	(\$18,058,384)
Donated and Non-Core Assets	(1,219,302)	(8,960,275)	(10,179,577)
Revenue Credit (NPV of future debt principal over period)	(26,613,455)	(18,866,322)	(45,479,777)
Net System Value	\$63,020,141	\$58,066,154	\$121,086,295
System Capacity - Million Gallons per Day*	18.0	18.0	
Level of Service per ERU (gallons per day)	277	277	
Equivalent Residential Units (ERU)	64,935	64,935	
Water System Development Fee Per ERU	\$971	\$894	\$1,865

#### \*Includes 6 MGD WTP plant expansion

### Sewer SDF Calculation

	Treatment	Conveyance / Collection	Total
Replacement Value of Existing Depreciated Assets	\$28,145,176	\$35,802,595	\$63,947,771
Expansion Capital Projects	57,750,769	16,212,000	73,962,769
Total Value	\$85,895,945	\$52,014,595	\$137,910,540
Less Credits			
Outstanding Debt Principal	(\$6,446,996)	(\$8,201,021)	(\$14,648,017
Donated and Non-Core Assets	(63,282)	(2,629,945)	(2,693,227)
Revenue Credit (NPV of future debt principal over period)	(24,209,412)	(6,796,152)	(31,005,564)
Net System Value	\$55,176,255	\$34,387,477	\$89,563,732
System Capacity - Million Gallons per Day*	7.8	7.8	
Level of Service per ERU (gallons per day)	277	277	
Equivalent Residential Units (ERU)	28,139	28,139	
Wastewater System Development Fee Per ERU	\$1,961	\$1,222	\$3,183

\*Includes 3 MGD WWTP plant expansion

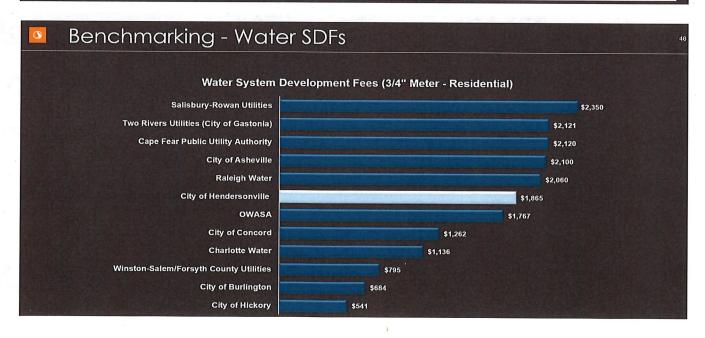
## Assessment of System Development Fees

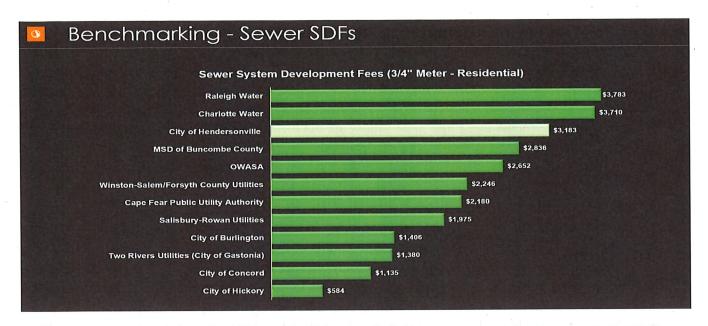
- SDFs must be applied based on units of service (represents potential demand)
- SDFs are often scaled by meter size based on hydraulic capacity of meter
- Recommend the use of American Water Works Association (AWWA) meter equivalents

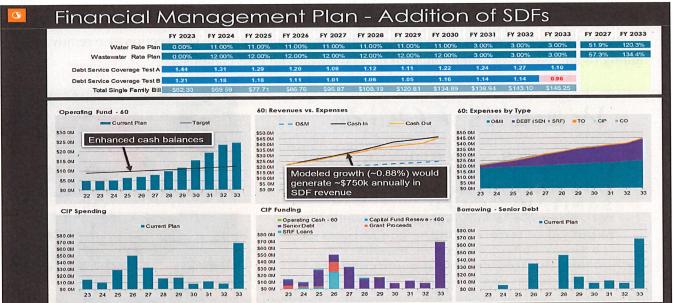
Meter size	Equivalent Residential Units (ERU)
3/4"	1.00
1"	1.67
1 1/2"	3.33
2"	5.33
3"	11.67
4"	21.00
6"	43.33
8"	93.33

## Calculated System Development Fees

Meter size	Calculated Water SDF	Current No. of Water Meters	Calculated Wastewater SDF	Current No. of Wastewater Customers	Combined SDF
3/4"	\$1,865	29,564	\$3,183	9,767	\$5,048
1"	\$3,108	622	\$5,305	297	\$8,413
1 1/2"	\$6,217	317	\$10,610	177	\$16,827
2"	\$9,947	142	\$16,976	79	\$26,923
3"	\$21,758	24	\$37,135	12	\$58,893
4"	\$39,165	11	\$66,843	4	\$106,008
6"	\$80,817	11	\$137,930	2	\$218,747
8"	\$174,067	0	\$297,080	0.	\$471,147







## Rate Study Recommendations

- 1. Revenue increases from rates are required in FY 24 to meet debt coverage and cash balances
  - Recommended adjustments: Water 11%, Sewer 12%
- Recommended water and sewer rate structure changes
  - Increase base charges and align scaling with industry standards
  - Modify residential water volumetric rates to include life-line tier and enhanced conservation
  - Adopt uniform commercial/industrial water volumetric rates
  - o Enhanced conservation for irrigation rates
- Consider the adoption of system development fees

B. New Fats, Oils and Grease (FOG), Management Policy – Lee Smith, Utilities Director & Kasey Lyons, Environmental Compliance Technician

Lee Smith explained the purpose of this new Fats, Oils, and Grease (FOG) Management Policy is to ensure no food service establishment (FSE) is discharging FOG into the City's sanitary sewer system. The specific requirements that FSEs must follow are detailed in this policy, including the frequency for cleaning of grease removal devices. The new proposed maintenance requirements outline specific steps FSEs must take to properly clean and maintain their grease removal device. This policy also covers the requirement that FSEs document the cleanings and retain the records for review during inspections. Inspections will be annual, or more often if needed. The Best Management Practices (BMPs) section provides detailed instructions for employees working in a kitchen on ways to avoid FOG from going down the drain. This section also provides more details of the construction and plumbing requirements related to grease removal devices. This includes a more specific requirement to have automatic dishwashers bypass any grease removal devices, as this has been leading to more frequent sanitary sewer overflows. Additionally, this section establishes requirements for mobile food units, which have previously gone unaddressed. The requirements for new FOG sources outlines the information the city needs from any new FSE as related to their grease removal device including information the FSE needs to ensure their grease removal device meets the City's requirements. This section also removes the ability of any FSE to be "grandfathered in" and ensures all FSE compliance.

## What is FOG?

FATS, OILS AND GREASE THAT HAVE POTENTIAL TO BE DISCHARGED INTO THE SANITARY SEWER.

Without proper management, FOG will negatively interfere with the components of the sewer collection system, impairs wastewater treatment and contributes to sanitary sewer overflows (SSOs).





what is FOG• 2023

03

## Why do we need a policy?

It has become evident that FOG management inside of Hendersonville's sewer collection system needs some standardization and well-defined requirements.



05



# To whom does the policy apply to?

FOOD SERVICE ESTABLISHMENTS (FSE) Any food service facility discharging kitchen or food preparation wastewater – examples include restaurants, hotels, schools, grocery stores, nursing

MOBILE FOOD UNITS (MFU)
Any self-contained mobile kitchen that is
equipped to prepare and/or sell consumable food
or drink items; a food establishment designed to
be readily moved and vend food.

Whom does it apply • 2023

## What does the new policy include?

SPECIFIC AND CLEAR DEFINITIONS -

Examples include FSE, MFU, grease interceptors, arease traps. REQUIREMENTS
REGARDING
GREASE
REMOVAL
DEVICES -

Frequency of cleaning, records/documentation. DETAILS ABOUT CITY INSPECTIONS -

What to expect from City inspections, frequency, and requirements.

## Specific Highlights

BEST MANAGEMENT PRACTICES -A detailed BMP section has been included to assist FSE and MFU in FOG management.

CONSTRUCTION AND PLUMBING REQUIREMENTS -

Clear requirements have been outlined for new and existing construction.

GRANDFATHER CLAUSE REMOVED The policy includes no "grandfathering out" and requires that all FSE and MFU be subject to the policy.







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Contact Information

FEEL FREE TO REACH US ANYTIME.

### C. Tap Water Branding - Adam Steurer, Utilities Engineer

Adam Steurer said The City of Hendersonville must instill the value of water and improve consumer confidence in its product: high-quality tap water. Recent high-profile water system failures across the nation (Ex. Jackson, Mississippi and Flint, Michigan) have negative impacts on confidence in tap water and local governments everywhere. Consumers who have lost confidence in their tap water through these system failures and/or have perceived health risks from drinking tap water are forced to seek an alternative — bottled water, which on a per unit basis is orders of magnitude more expensive compared to tap water and not environmentally friendly. Hendersonville tap water is of the highest quality but does not have a "brand". Building a "brand" for its tap water and providing additional educational outreach through the "brand" will allow the Utility to improve consumer confidence, build trust in local government, instill the value of water, reduce the use of wasteful plastic bottled water, and improve affordability. A focus group comprised of multidisciplinary Utility staff have selected a brand name and associated imagery for City of Hendersonville tap water.

## Tap Water Consumer Confidence Decline

**PFAS/Emerging Contaminants** 

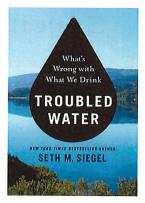
Lead Service Lines

Water System Failures (Flint MI, Jackson MS)

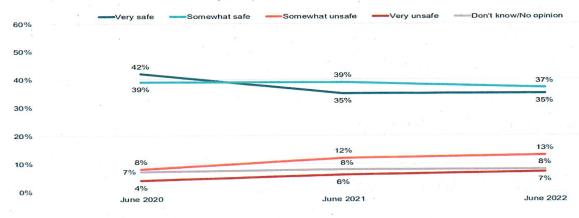
Misinformation







### Survey Says: Water from the faucet is...



Ref: AWWA, Polling Presentation, Morning Consult.

## The Alternative..







-Primo: \$1.40/gallon (Filling station, Ingles)

-Aquafina: \$1.89/gallon (32-pack, Wal-Mart)

-FIJI: \$10.52/gallon (24-pack, Wal-Mart)

## Hendersonville Tap Water: < \$0.01/gallon







## Why "Brand" Our Water?

- -Build Trust / Consumer Confidence
- -Understanding the Value of Water
- -Affordability (low-income and minority customers)
- -Rate Increases
- -Reduce Waste (plastic bottles)

## Branding Focus Group







.. "finest, purest water east of the Rockies" -HN 4/21/1922 SAIX - No. 66

Replaced by Company of the Company o

.. "water source unusually fine... natural clearness and purity... delightful to the palate"...

-HN 8/14/1922

.. "pure, crystal, sparking... water unsurpassed purity anywhere in America"... -HN 7/19/1923

.. "Magnificent Water Supply... greatest project the City has ever done"... -HN 7/26/1923



## How will we use the brand?

- -Water bottles (give-aways for events/treatment facility tours)
- -Educational materials
- -Decals at reusable bottle filling stations (schools, public buildings)
- -Social media posts/campaigns







Jerry A. Smith Jr., J.D., City Council Member & Chairman

### 6. ADJOURNMENT

There being no further business, the meeting was adjourned at 7:29 p.m.

ATTEST:

Jill Murray, City Clerk