#### **SEWER RATE STUDY 2023 RATES**

The attached Sewer Rate Study dated July 9, 2007 is used as the basis for the 2023 rate increase.

This increase is anticipated to bring \$18,181 in additional revenue to the Sewer Enterprise fund

Over the last seven years the Town of Hayden has subsidized the sewer fund as follows:

2016	\$116,472	
2017	\$110,525	
2018	\$113,338	
2019	\$156,604	
2020	\$106,970	•
2021	\$239,604	
2022	\$234,235	

Even with the increases that the Town has implemented the enterprise fund is not self sustaining and therefore additional fee increases are necessary. This fee increase is anticipated to bring in \$18,181 in additional revenue to the sewer enterprise fund.

Sewer	<b>Current Rate</b>	New Rate
Residential		
Single Family	\$ 77.65	\$ 85.40
Multi-Family (per unit)	\$ 77.65	\$ 85.40
Mobile Homes	\$ 77.65	\$ 85.40
Non-Residential		
Business/Retail	\$ 84.55	\$93.00
Restaurant	\$102.75	\$113.00
Churches	\$102.75	\$113.00
Sewer Tap Fee (Residential)	\$412.50	\$ 453.75
Sewer Tap Fee (Commercial)	\$ 0.00	\$1,200.00

Using the CPI Inflation Calculator from June of 2007 to September of 2023 the following rates would be appropriate.

Single Family	\$ 107.17
Multi-Family (per unit)	\$ 107.17
Mobile Homes	\$107.17
Non-Residential	
Business/Retail	\$ 104.72
Restaurant	\$125.60
Churches	\$192.26

Town of Winkelman charges \$25.00 per month for sewer fees.

Town of Kearny charges \$27.60 per month for sewer fees.

Town of Mammoth charges \$27.00 per month for sewer fees.

A Presentation To

CHERTERICATE CARRESTANTE CONTRACTOR CONTRACTOR

Town Council of Hayden Arizona July 9, 2007

Project Name: Sewer Rate Study

# Elements of the Hayden Sewer Rate Study

- Current sewer utility budget for collection and discharge
- Existing customer base
- Sewer rates needed to meet current budget
- and the WWTP upgrade Financing costs for sewage transfer infrastructure
- Operation and maintenance costs for new transfer facilities and Hayden's share of the treatment costs
- Reserve fund calculation

# Sewer Utility Projected FY 2006-07 Final Budget

\$155,040	Total Cost of Collection and Discharge:
<u>\$3,040</u>	Admin. & Contingency @ 2%
\$11,000	Telephone & Utilities
\$1,000	Miscellaneous expense
\$43,000	Depreciation
\$56,000	Maintenance Expense
\$5,000	Supplies
\$36,000	Salaries & Benefits
Amount	Expenditures
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#### **Customer Data**

The state of the s			- And Andreas and Antonia and	Wastewater Characteristics	haracte	eristics
Customer Class	Basis of Charge	Number of Units	No. of Connections	Aver. Daily Flow/Unit (GPD)	BOD TSS	TSS mg/I
		S		(B)	<u>ි</u>	<del>D</del>
Residential	e estados e estados e estados estados estados estados en estados en estados en estados en estados en estados e					
Single-Family (includes MH)	per Unit	249	249	225	500	250
Multi-Family <sup>2</sup>	per Unit	6	N	215	500	250
Mobile Homes <sup>2</sup>	per Unit	29	19	-225	500	250
RV	per Unit		The state of the s		: : : : : : : : : : : : : : : : : : :	T a special sp
Non-Residential	cody afternoon with the respect of a following speciated door	2	man organization and plant of the control of the co	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The same of the sa	a supplied to the supplied to
Business/Retail/Office	per Unit	7	5	300	500	250
Restaurant/Bar	per Unit	N	N	500	750	350
Churches	per Unit		And the second s	500	500	250
	Totals:	302	288		200	90
' Total number of connections from 2006 WIFA Rate Study, connections per class	ons from 20	06 WIFA F	Rate Study, co	onnections pe	er class	0,
<sup>2</sup> Multi-family and mobilehome units are based on the 2000 U.S. Cer	ome units ar	e based	on the 2000 (	J.S. Census occupied	cuple	Ω.
Units data	WANTED HAVE I'I I'V P'ENTRINGING TO THE TOTAL THE TOTAL TO THE TOTAL T	contravendo contrato de la contracto de cont	AND	Andreas de la companya de la company	жен жартанда жартан жартан жар	SCADNALIPH GOLDON SCHOOL STATE



## Sewer Rates for Current Budget

	HOW		Total	n dernische ist einem settlicht weret wemetet werd	Variable	Fixed		Cost/
Customer Class	<b>M</b> G/	Cost/	Variable		Cost/Unit/   Cost/Unit   Cost/Unit/	Cost/Unit	Cost/Unit/	<b>S</b>
	Yr.	MG	Costs	Units	Ϋ́r	/Yr.	<b>*</b>	/Mon
port of the second of the seco	$\supset$	В	C=AxB	U	E=C/D	11	+	(E+F)/12
<u>Residential</u>				***************************************				
Single-Family	20,45	20,45 \$1,638	\$ 33,491	249	\$ 134,50	\$ 375.13	\$ 509.6	\$42.47
Multi-Family	0.47	0.47 \$1,638	\$ 771	6	6 \$ 128,53	\$ 375.13	\$ 503,6	6 \$41.97
Mobile Homes	2,38	2,38 \$1,638 \$	\$ 3,901	29 \$	\$ 134.50	\$ 375,13	\$ 509.6	\$42,47
Non-Residential	in a second and a second and a second a	-	\$	March	77,100		and the state of t	
Business/retail	1.64	1,64 \$1,638	\$ 2,690	5	\$ 179.34	\$ 375.13	\$ 554.47	\$46.21
Restaurant/Bar	0.37	\$1,638	\$ . 598	N	\$ 298,90	\$ 375,13	\$ 674.03	\$56,17
Churches	0.18	0.18 \$1,638	\$ 299		\$ 298,90	\$ 375,13	\$ 674.03	\$56,17
Total;	25,49	Subanulus VIII store	\$ 41,750	302		The state of the s		

### Sewer Rates for Current Budget

Desidential	<b>Customer Class</b>
_	Class
	Monthly Rate

Residential

Single Family Multi-Family

Mobile Homes

Non-Residential

Business/retail

Restaurant

Churches

\$42.47 \$41.97 \$42.47

\$46.21

\$56.17

\$56.17

Note: these rates do not include charges for new facilities, upgrades or treatment

#### Upgrade Financing Costs for New Facilities & WWTP

- \$1.5 million Sewer Rate Study based on total project cost of
- \$1 million is an outright grant
- \$500,000 is budgeted as a loan from USDA (or collected from Sewer Utility customers other source) which would be repaid by charges
- debt service payment would be \$28,150 rate of 4.75% over a 40-year period, the annual This Sewer Rate Study assumes a bond interest

#### Annual Cost to Treat Hayden Effluent in Upgraded Winkelman WWTP

- Total expense due to increased flow = \$71,500
- Additional personnel costs
- Power and water
- Maintenance
- Sludge disposal
- Permit fees and DMA application
- Hayden's share of fixed costs = Testing and monitoring
- Insurance
- WIFA Grant Match
- Consultants
- Total Treatment Cost =

\$12,300

\$83,800

#### Total Annual Budget for Current O&M plus Upgrade Debt Service and Treatment Cost

Collection And Discharge \$155,000

Debt Service

Treatment Total

\$28,150

\$83,800 \$266,950

### Service and Treatment Cost Sewer Rates for Current O&M plus Upgrade Debt

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**Monthly Rate** 

Hestaurant Churches	Business/retail	Mobile Homes	Multi-Family	Single Family	Residential
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\$72.55	\$70.89	\$72.55

\$85.02 \$130.15 \$118.27

#### 10 Year Cash Flow

Wood of March 19 Control of the Cont	The second secon						***************************************	***************************************	And the female of the second second	The state of the s				The second secon
	Collection	-e- <u>s- 5-rr</u>	Percent			+								
			9,		<b>.</b>							>		
SAMMINITARY	28.01.00	TIEMBER	2				c	4	c	c	,	0	×	
Salaries & Benefits	\$36,000	\$30,000	26%	3%	\$67,980	\$70,019	\$72,120	\$74,284	\$76,512	\$78,807	\$81,172	\$83,607	\$86,115	\$88,698
Supplies	\$5,000	\$3,500	4%	5%	\$8,925	\$9,371	\$9,840	\$10,332	\$10,848	\$11,391	\$11,960	\$12,558	\$13,186	\$13,846
Local Alcoa	:	67.700	Ş	200	0001	24.00		γ. 100	200	200	25.25	\$ 500		¢E 027
Wonltoring	8.8	\$4,788	0% 0%	% % % %	\$4,884 \$3,570	\$3,641		\$3,789	\$3,864	\$5,392	\$4,020	\$5,61U \$4,101	\$6,722	\$4,266
Studge Hauting & Disposal	Š	\$10,000	0%	2%)	\$10,200	\$10,404		\$10,824	\$11,041	\$11,262	\$11,487	\$11,717		\$12,190
Maintenance Expense	\$28,000	\$2,750	20%	5%	\$32,288	\$33,902	\$35,597	\$37,377	\$39,246	\$41,208	\$43,268	\$45,432		\$50,089
Depreciation/annualized														
capital	\$43,000	\$2,000	31%	n/a	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000
Repairs & minor replacements <sup>1</sup>	\$1,000	కర్ణ	~	2%	\$1,020	\$1,040	\$1,061	\$1,082	\$1,104	\$1,126	\$1,149	\$1,172	\$1,195	\$1,219
Insurance	80	\$1,297	0%	ઝુ	\$1,336	\$1,376	\$1,417	\$1,460	\$1,504	\$1,549	\$1,595	\$1,643	\$1,692	\$1,743
Travel Expense	\$0	\$350	0%	₹	\$354	\$357	\$361	\$364	\$368	\$372	\$375	\$379	\$383	\$387
Water	\$0	\$650	<b>9</b> %	4%	\$676	\$703	\$731	\$760	\$791	\$822	\$855	\$890	\$925	\$962
Power	\$11,000	\$16,800	88	55	\$29,190	\$30,650	\$32,182	\$33,791	\$35,481	\$37,255	\$39,117	\$41,073	\$43,127	\$45,283
Debt Service	\$14,074	\$14,074	% %	ηζα	\$28,148	\$28,148	\$28,148	\$28,148	\$28,148	\$28,148	\$28,148	\$28,148	\$28,148	\$28,148
DMA Application Fee <sup>2</sup>	80	\$2,000	0%	0%	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	S2,000	\$2,000	\$2,000	\$2,000	\$2,000
Consultant Fees <sup>2</sup>	80	\$1,050	0%	0%	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050
WIFA Grant Match <sup>2</sup>	ŝ	\$1,330	0%	Ŗ	\$1,330	\$1,330	\$1,330	\$1,330	\$1,330	\$1,330	\$1,330	\$1,330	\$1,330	\$1,330
Annual Permit/ADEQ														
Registration Fee	\$0	\$1,000	0%	0%	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Administrative charges	\$1,200	\$1,374	1%	0%	\$2,574	\$2,574	\$2,574	\$2,574	\$2,574	\$2,574	\$2,574	\$2,574	\$2,574	\$2,574
Total Current Cost:	\$139,274	\$96,463		Annual	\$241,524:	\$247,547	\$253,818	\$260,348	\$267,147	\$274,227	\$281,601	\$281,601 \$289,283 \$297,285	\$297,285	\$305,622
				Costs								Ner Ann⊔	al Cost inc	rease:
			Annual I	Annual Revenue	\$257,000	\$257,000	\$257,000	\$257,000	\$257,000	\$257,000	\$257,000	\$257,000	\$257,000	\$267,000
There is a second of the secon		Operating Surplus (Deficit)	Surplus	(Deficit)	\$15,476	\$9,453	\$3,182	(\$3,348)	(\$10,147)	(\$17,227)	(\$24.601)	(\$32,283)	(\$40,285)	(\$48,622)
		Intere	nterest Income @ 2.5%	e @ 2.5%	8	\$387	\$633		\$663	\$426	88	SO	\$426 \$6 \$0 \$0	90
The second of th		Cumulative Surplus (Deficit)	Surplus	(Deficit)	\$15,476	\$25,316	\$29,130	\$26,511	\$17,027	\$226	(\$24,370)	(\$56,652)	\$226 (\$24,370) (\$56,652) (\$96,937) (\$145,559)	(\$145,559)
		Reserve percent of Budget	ercent of	Budget	6,41%	10.23%	11.48%	10, 18%	6.37%	. 0,08%	-8.65%	-19,58%	-32.61%	-47.63%
Minor replacements with less than 5 years useful life	ihan 5 years i	useful life		:	:		5 yr	5 yr Average:	8.93%				-10.88%	
<sup>2</sup> Fees and grant match ammortized over 5-yr, period these costs may be deducted if not applicable	itized over 5	-yr, perlod t	hese cos	ts may be	e deducte	d If not ap	plicable							



#### Sewer Rates from Cash Flow Analysis w/Reserve Fund

Chiroboo	Restaurant	Business/retail	Non-Residential	Mobile Homes	Multi-Family	Single Family	Residential	Customer Class
-								Mor

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