Resolution No. C-2020-____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HALF MOON BAY ACCEPTING REPORT FROM MFS REGARDING PROPOSED SEWER RATE FEE STUDY, STATING INTENT TO ESTABLISH SANITARY SEWER FEES EFFECTIVE FISCAL YEARS 2020-21 THROUGH 2024-25 AND SETTING PUBLIC HEARING FOR JUNE 2, 2020

WHEREAS, the City of Half Moon Bay is a public entity that owns and operates a sanitary sewer system;

WHEREAS, the City of Half Moon Bay funds sewer operations via sewer service charges;

WHEREAS, pursuant to Section 5473 of the California Health and Safety Code, the City Council has received a report of sewer service charges covering fiscal years (FY) 2020-21 through 2025-26, computed in conformity with a Sewer Service Rate Study prepared by Municipal Financial Services (MFS);

WHEREAS, the City is committed to maintain its sewer system to ensure protection of the public health and safety;

WHEREAS, the City's sewer infrastructure is aging and in some areas sewer mains nearing their useful life;

WHEREAS, the Sewer Authority Mid-Coastside (SAM) has identified significant infrastructure needs that could exceed \$50 million over the next 5-10 years;

WHEREAS, the City, as a member of SAM, is obligated to pay a proportional share of SAM operational and maintenance costs to ensure proper conveyance and treatment of wastewater;

WHEREAS, without update of the current rates, the City does not have the financial resources needed to fund operations or continue upgrades of the City's system and the SAM treatment plant and Intertie Pipeline System; and

WHEREAS, the City Council desires to accept the Report, intends to adopt rates it proposes following the procedures required by Proposition 218, article XIII D, section 6 of the California Constitution.

NOW, THEREFORE, BE IT RESOLVED, that the City Council of the City of Half Moon Bay does hereby: 1) accepts the report titled "2020 Sewer Service Charges Study," dated April 1, 2020 prepared by Municipal Financial Services, included as Exhibit A; 2) states the City Council's intent to establish sanitary sewer fees for fiscal years 2020-21 through 2024-25; 3) adopts City Guidelines for Submission and Tabulation of Protests, included as Exhibit B; 4) sets the Public Hearing for June 2, 2020; 5) directs staff to release notices to property owners in accordance with Proposition 218; and 6) directs staff to return with revisions to Municipal Code Title 13 to codify the rate structure for residential uses and other related changes.

I, the undersigned, hereby certify that the foregoin the 7 th day of April 2020 by the City Council of Half	• • • • • • • • • • • • • • • • • • • •
AYES, Councilmembers:	
NOES, Councilmembers:	
ABSENT, Councilmembers:	
ABSTAIN, Councilmembers:	
ATTEST:	APPROVED:

Adam Eisen, Mayor

Jessica Blair, City Clerk





D R A F T 2020 Sewer Service Charges Study

Prepared for City of Half Moon Bay, California April 1, 2020

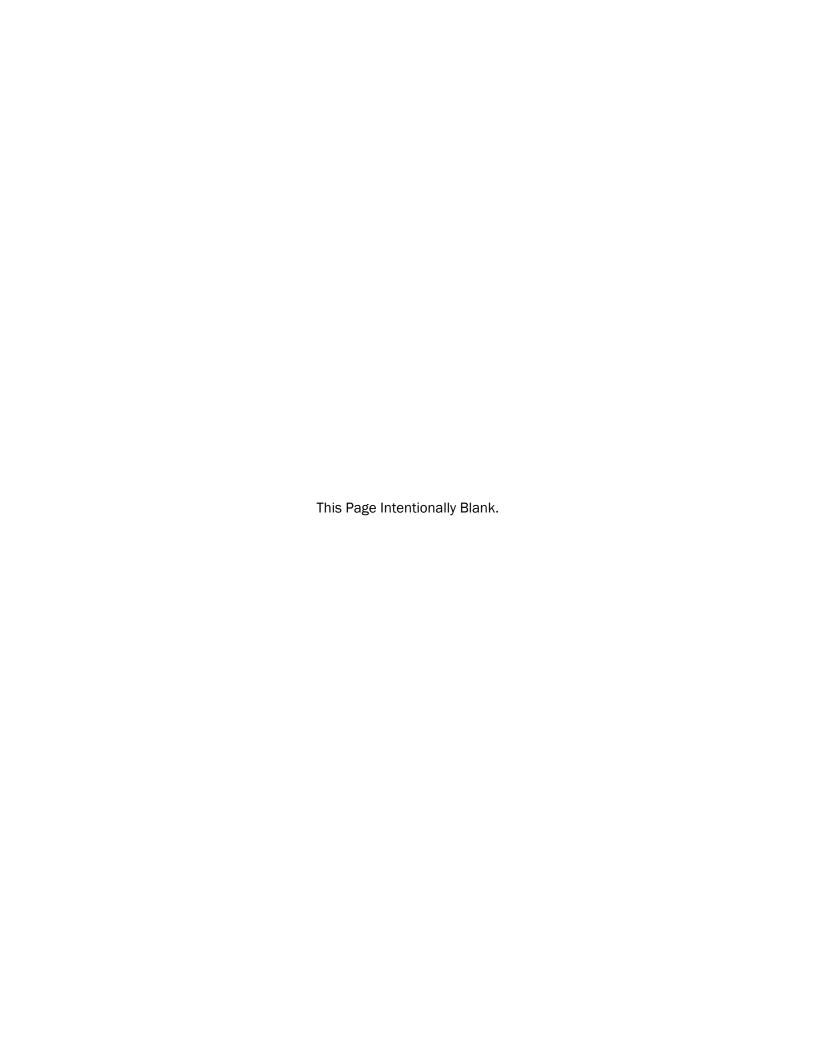


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List of Abbreviations

ROD	Biochemical Oxygen Demand

Ccf Hundred Cubic Feet (equal to ~ 748.1 gallons)

CCWD Coastside County Water District
CIP Capital Improvement Program

City of Half Moon Bay

FY Fiscal year (July 1 to June 30)

gpd gallons per day

Granada Granada Community Services District

IPS Intertie Pipeline System
JPA Joint Powers Authority
mgd million gallons per day

Montara Water and Sanitary District

O&M Operation and maintenance
TSS Total Suspended Solids

Executive Summary

Municipal Financial Services has been retained by City of Half Moon Bay (City) to conduct a Sewer Service Charges Study (Study). This report describes in detail the assumptions, procedures, and results of the Study, including conclusions and recommendations in accordance with the provisions of California Proposition 218.

Background

The City of Half Moon Bay operates its collection system and pays its proportional share of treatment costs through its sewer enterprise fund. The sewer enterprise fund is supported by sewer service charges imposed upon users of the City's sewer system. Sewer Service Charges are intended to recover revenues sufficient to adequately fund sewer utility operations, maintenance, and capital replacement expenditures, while maintaining prudent levels of reserves. The City's Sewer Service charges address not only the operation and maintenance of the City collection system, but also the proportional costs of the Sewer Authority Mid-Coastside (SAM) operations of the treatment plant and intertie pipeline system.

Sewer rates have not been adjusted in the last six years (last adjusted in Fiscal Year 2013-14). This adjustment was part of an overall sewer rate study completed in 2011. The 2011 study increased the annual Residential Single Family charge – based on 10 hundred cubic feet (HCF) of wastewater discharged per two months (about 123 gallons per day) – from \$289 to \$672 (an increase of approximately 132 percent).

The Half Moon Bay Municipal Code establishes a minimum charge for all users for not less than 8 HCF per two months. The annual sewer service charge corresponding with minimum use is \$537.28 (\$33.58 per HCF per four months times 16 HCF per four months).

In 2017, the City filed for Declaratory Relief regarding language in the Joint Powers Authority (JPA) related to member agencies' respective obligations for paying for capital projects (notably the Influent Pump Station). The other JPA member agencies and City agreed to enter into mediation and have been actively engaged in settlement discussions.

This report evaluates adjustments in Sewer Service Charges for the time period Fiscal Year 2020 – 2021 (FY21) through FY25 (five years). This report reflects the preliminary settlement terms reached by the City, Granada and Montara. Should settlement not be finalized, the Cost of Service Charges will have to be re-evaluated.

Sewer System Description

The City of Half Moon Bay provides sewer collection services to residences, commercial and institutional uses from Frenchman's Creek on the north to Miramontes Point Road on the south. The City primarily serves the incorporated City boundary; however, the Moonridge Housing Development located in unincorporated San Mate County is served by the City. Wastewater from residences, businesses, schools, restaurants and other structures is conveyed through sewer mains owned by the City of Half Moon Bay to the sewer treatment plant operated by Sewer Authority Mid-Coastside (SAM).¹ The City's collection system includes approximately 35 miles of gravity sewer lines, three (3) pump stations and three (3) force mains. While the City has endeavored to maintain the sewer collection system; portions of the system consist of 70 – 80-year-old clay pipes that will require additional maintenance or replacement in the coming years. The City is scheduled to complete replacement of the Ocean Colony Pump Station and Force Main in FY 2020-21. This approximate \$3.0 million project will replace pipes and equipment that have reached their useful life and pose a threat to sensitive habitat. The Ocean Colony project is funded and not factored into the proposed rate adjustment.

The City, Granada, and Montara form SAM via an exercise of Joint Powers Agreement (JPA). SAM facilities include a conventional wastewater treatment plant (1000 N. Cabrillo Highway, Half Moon Bay) and the Intertie Pipeline System (IPS), which conveys flows through pumping facilities, force mains, interceptor pipelines and a gravity main from Granada and Montara to the wastewater treatment plant. Under the current JPA and processes, the City is responsible for paying a proportional share of the calculated plant flow for operations, maintenance and capital costs of both the wastewater treatment plant and IPS. In FY 2019-20, the City's proportional share was set at 56-percent. Preliminary settlement terms would establish a non-flow-based fixed share of treatment related costs among all three agencies for a minimum of 5 years. IPS related capital costs would be set at a different non-flow-based proportion in perpetuity.

The wastewater treatment plant and IPS were originally constructed in the late 1970s, upon the formation of the JPA. The treatment plant was substantially upgraded in late 1999/2000s and has sufficient capacity to receive and treat anticipated dry and wet weather wastewater flows from the City. The treatment plant, due substantially to deferred maintenance, is in need of major maintenance and capital repair which have been estimated as being as much as \$40 million. This rate study includes funding for capital repair and replacement on either a financed or pay-as-you-go basis. The proposed rates include approximately \$2.4 million combined annual contribution of the City, Granada and Montara.

The IPS was constructed in the late 1970s and is, for the most part, comprised of original system components. In 2017, the Granada Force Main suffered a major break and resulted in a significant sanitary sewer overflow (spill) (SSO). Two smaller SSO events occurred on other sections of the Granada Force Main. As a result, SAM completed replacement of approximately 5,700 feet of the Granada Force Main at a cost of almost \$2.0 million. SAM recently commenced work on an additional 1,500 feet of the Granada Force Main. SAM was fined (and member agencies proportionately paid) approximately \$600,000 by the Regional Water Board for the 2017 SSO events. SAM was subsequently sued by the Ecological Resource Foundation (ERF). In addition to some cash considerations, the settlement of this suit included commitment to a series of replacements of the IPS over the next 5-years totaling almost an estimated \$9.0 million. Total IPS repair and replacement is estimated at between \$20 million and \$25 million.

¹ The Granada Community Services District provides sewer collection service within City limits from Frenchman's Creek north to Mirada Road.

At the request of the City, Municipal Financial Services modeled a "no adjustment" scenario. This scenario includes all known and anticipated fixed costs including those directly related to City operations and those of SAM. This scenario is shown below in Figure ES-1.



Figure ES-1. Fund 05 and Fund 06 Combined Cash Flow FY20 - FY25 At Current Rates

Projected Expenditures, Revenues and Cash Flow

Revenues, expenditures and ending balances for FY20 – FY25 (six years) are summarized in the figure below. Values for FY20 are based on budget data; values for FY21 and onward are projected.

Expenditures for the five-year projected period, FY21 - FY25, are approximately \$35,300,000.

Revenues from the current level of Sewer Service Charges (approximately \$4,440,000 per year) would generate approximately \$22,190,000 over the five-year projected period. Revenues from Sewer Service Charges during the five-year projected period are calculated to increase by approximately \$6,700,000 from \$22,190,000 to \$28,89,000 based on the recommended increases in Sewer Service Charges. Expenditures include not only City sewer collection system related costs, but also the proportional costs of the SAM treatment plant and Intertie Pipeline System.

Expenditures not funded by revenues are funded by use of cash balance.

Annual projected expenditures are shown in the figure below as stacked columns. The fiscal year ending cash balance is shown as a black line and the target ending balance (75 days of operating cash) is shown as a purple line. The fiscal year amount of revenue from Sewer Service Charges is shown as a red line. The percent increase in Single Family sewer service charges is shown as a blue line with data labels indicating the annual percent increase.

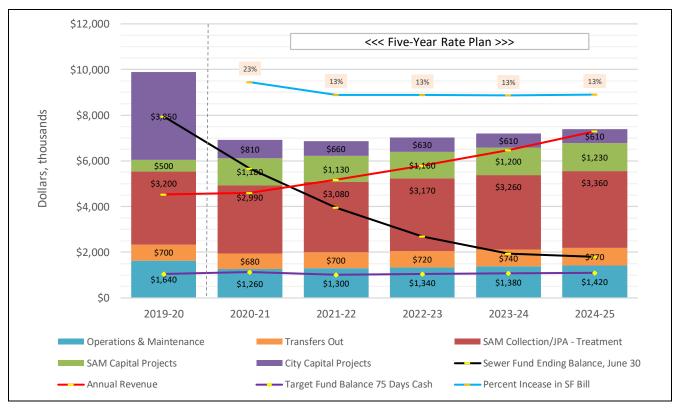


Figure ES-2. Fund 05 and Fund 06 Combined Cash Flow FY20 - FY25 With Rate Increases

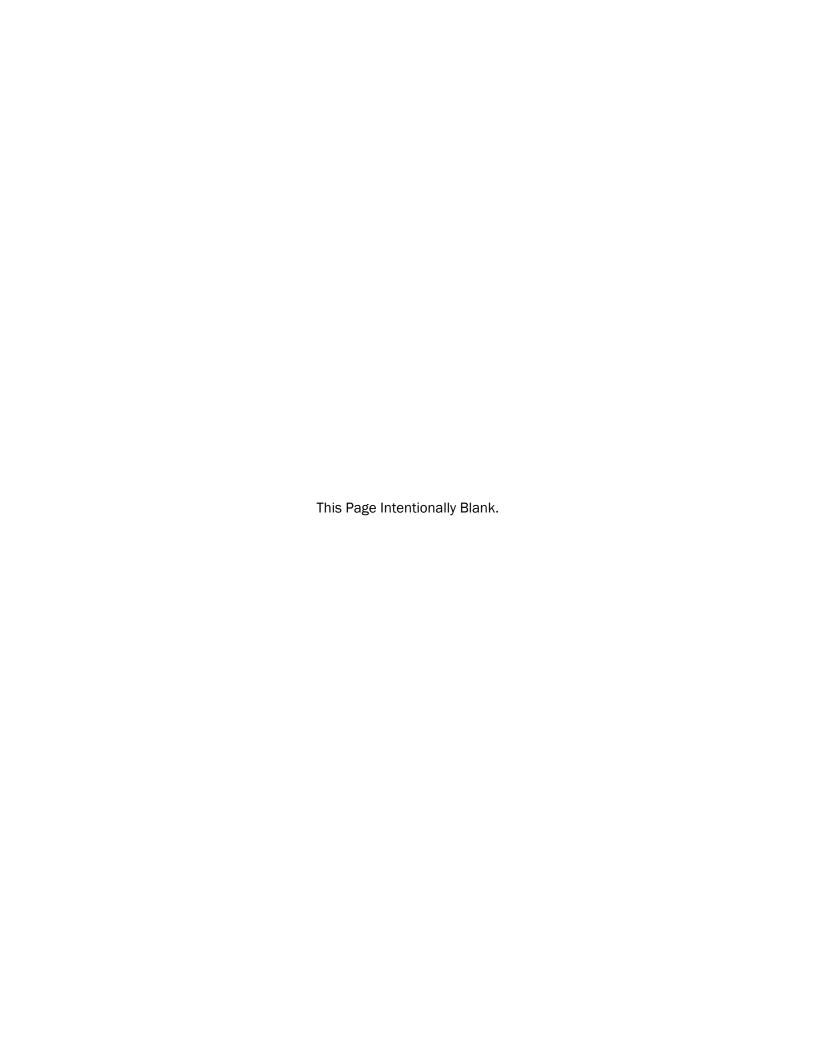
Recommended Sewer Service Charges

The amount of revenue required from Sewer Service charges for each customer class is used to develop either a flat charge for Residential, Mobile Home, Senior Apartments (a new class added by the City) and Retirement classes or a flow-based charge plus the account/unit charge for all other classes. The account/unit charge is included in the flat charge for the Residential, Mobile Home, Senior Apartment (deed restricted), and Retirement classes. Calculations for each fiscal year and each unit of service are shown in Appendix A, Tables A-3a through A-3e. Recommended Sewer Service Charges are summarized in the table below.

	Table ES-1	Recommend	ed Sewer S	Service Cha	rges			
Classes of Premises	Current 2	019-20 Rate Strı	ıcture	2020-21	2021-22	2022-23	2023-24	2024-25
Residential/Mobile Home/Retirement *	<u>Minimum</u>	<u>@ 60 HCF/year</u>	Avg/year		<u>Per Acc</u>	count or Unit Pe	er Year	
Residential Single Family	\$537	\$672	\$830	\$828	\$936	\$1,056	\$1,188	\$1,344
Residential Single Family w/ADU	<<< n	o current charges >	>>	\$960	\$1,104	\$1,236	\$1,392	\$1,572
Residential Multiple Family	\$537	\$672	\$691	\$828	\$936	\$1,056	\$1,188	\$1,344
Mobile Home	\$537	na	\$535	\$504	\$576	\$648	\$732	\$828
Senior Apartments (New Class)				\$504	\$576	\$648	\$732	\$828
Nonresidential **	<u>Minimum</u>				<u>Per Acc</u>	count or Unit Pe	e <u>r Year</u>	
Retirement Homes	\$537	na	\$538	\$504	\$576	\$648	\$732	\$828
Annual Account Charge	<u>Minimum</u>				<u>Per</u>	Account Per Ye	<u>ar</u>	
All classes	varies by strength	ı		\$183	\$208	\$235	\$264	\$298
Flow Rate, \$/HCF	Strength Factor	Above Minimum			<u>Ar.</u>	nual Water Us	<u>e</u>	
Office	60.00%	\$6.72		\$8.11	\$9.26	\$10.44	\$11.72	\$13.25
School	65.71%	\$7.36		\$8.11	\$9.26	\$10.44	\$11.72	\$13.25
Recreational	114.29%	\$12.79		\$13.03	\$14.88	\$16.77	\$18.83	\$21.28
Commercial	85.71%	\$9.59		\$9.35	\$10.68	\$12.04	\$13.52	\$15.28
Medical	100.00%	\$11.19		\$11.12	\$12.70	\$14.32	\$16.08	\$18.17
Motel	122.86%	\$13.75		\$13.74	\$15.70	\$17.69	\$19.87	\$22.45
Restaurant	180.00%	\$20.15		\$19.75	\$22.56	\$25.43	\$28.56	\$32.27
Individual								
Annual Account Charge	<u>Minimum</u>							
All classes	varies by strength	ı		\$183	\$208	\$235	\$264	\$298
Flow Rate, \$/HCF	Strength Factor	Above Minimum						
Individual premise	varies	varies by strength						
Flow Rate, \$/kgal				\$8.54	\$9.76	\$10.99	\$12.35	\$13.95
BOD Rate, \$/pound				\$1.22	\$1.40	\$1.57	\$1.77	\$2.00
TSS Rate, \$/pound				\$1.15	\$1.31	\$1.48	\$1.66	\$1.88

^{*} The current Residential/Mobile Home/Retirement annual charge is for a minimum of 48 HCF per year at \$33.58 per HCF per four months. Annual charges for use above 48 HCF increase in increments of \$33.58 for each additional HCF per four months. The annual charge for the new Single Family w/ADU category is calculated by adding the per account charge plus flow charges for 79 HCF per year (1.5 times the average Single Family wastewater discharge volume of 58 HCF [per year).

^{**} The current Nonresidential annual charge is for a minimum of 48 HCF per year at \$33.58 per HCF per four months times an adjustment for strength (BOD and TSS) of the discharge. Annual charges for use above 48 HCF increase in increments per additional 1 HCF plus an adjustment for the strength of the discharge.



Section 1

Introduction

This report documents the results of an evaluation of Sewer Service Charges for the City of Half Moon Bay. The City's Sewer Service Charges are intended to recover revenues sufficient to adequately fund sewer utility operations, maintenance and capital replacement expenditures, while keeping rates as competitive as possible and maintaining a prudent level of reserves.

1.1 Background

The City of Half Moon Bay provides sewer collection services to residences, commercial and institutional uses from Frenchman's Creek on the north to Miramontes Point Road on the south. The City primarily serves the incorporated City boundary; however, the Moonridge Housing Development located in unincorporated San Mate County is served by the City. Wastewater from residences, businesses, schools, restaurants and other structures is conveyed through sewer mains owned by the City of Half Moon Bay to the sewer treatment plant operated by Sewer Authority Mid-Coastside (SAM). The City's collection system includes approximately 35 miles of gravity sewer lines, three (3) pump stations and three (3) force mains. While the City has endeavored to maintain the sewer collection system; portions of the system consist of 70 - 80-year-old clay pipes that will require additional maintenance or replacement in the coming years. The City is scheduled to complete replacement of the Ocean Colony Pump Station and Force Main in FY 2020-21. This approximate \$3.0 million project will replace pipes and equipment that have reached their useful life and pose a threat to sensitive habitat. The Ocean Colony project is funded and not factored into the proposed rate adjustment.

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The wastewater treatment plant and IPS were originally constructed in the late 1970s, upon the formation of the JPA. The treatment plant was substantially upgraded in late 1999/2000s and has sufficient capacity to receive and treat anticipated dry and wet weather wastewater flows from the City. The treatment plant, due substantially to deferred maintenance, is in need of major maintenance and capital repair which have been estimated as being as much as \$40 million. This rate study includes funding for capital repair and replacement on either a financed or pay-as-you-go basis. The proposed rates include approximately \$2.4 million combined annual contribution of the City, Granada and Montara.

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sanitary sewer overflow (spill) (SSO). Two smaller SSO events occurred on other sections of the Granada Force Main. As a result, SAM completed replacement of approximately 5,700 feet of the Granada Force Main at a cost of almost \$2.0 million. SAM recently commenced work on an additional 1,500 feet of the Granada Force Main. SAM was fined (and member agencies proportionately paid) approximately \$600,000 by the Regional Water Board for the 2017 SSO events. SAM was subsequently sued by the Ecological Resource Foundation (ERF). In addition to some cash considerations, the settlement of this suit included commitment to a series of replacements of the IPS over the next 5-years totaling almost an estimated \$9.0 million. Total IPS repair and replacement is estimated at between \$20 million and \$25 million

1.2 Scope of Work

The scope of this Study is to prepare a multi-year financial plan, review the City's existing rate structure, and propose a 5-year rate program. The primary objectives of this Study are to:

- Develop a multi-year financial management plan that integrates the City's operational and capital project funding needs;
- Identify future rate adjustments to sewer rates to help ensure adequate revenues to meet the City's ongoing financial obligations;
- Determine the cost of providing sewer service to customer classes using industry-accepted methodologies; and
- Recommend specific modifications to the City's existing rate structures in order to ensure that
 the City is equitably recovering the cost of service and comporting with industry standards and
 California's legal requirements.

1.3 Rate-Making Objectives and Methodology

The scope of this Study is to prepare a multi-year financial plan, review the City's existing rate structure, and propose a 5-year rate program in accordance with California Proposition 218. The primary objectives of this Study are to maximize:

Revenue sufficiency. Generate sufficient revenue to fund operating costs, capital costs and bonded debt, and maintain adequate reserves.

Revenue stability. Recover revenue from charges that will cover all costs regardless of fluctuations in the volume of discharges to the sanitary sewer or the timing or receipt of charges for service.

Administrative efficiency. Enable efficient implementation and ongoing administration, including monitoring and updating.

Affordability. Be as affordable as possible while maintaining the sound financial position and credit rating of the enterprise.

Customer acceptance. Be as simple as possible to facilitate customer understanding and acceptance.

Fairness. Provide for each customer class to pay its proportionate share of the required revenue in compliance with legal rate-making requirements.

Conservation signal. Reward customers for efficient indoor water use and discourage its waste.

Economic vitality. Consider rates in light of local and regional competitiveness.

Rate-making methodology has three categories of technical analysis – the development of revenue required from rates, the allocation of costs among functional cost categories (cost-of-service analysis) and the design of a rate structure. The revenue required from rates is net of non-rate revenues (for example interest earned on fund balances and loan disbursements) and other revenues not required from rates (such as revenue from meter turn on/off services). The allocation of costs is structured so that the revenue required from rates is distributed proportionally for each sewer service function in a

manner that allows the development of unit costs that are applicable to all customers. The rate structure uses the unit costs as a basis for aggregating costs into rates that are applicable to the various customer classes.

1.4 Current Sewer Service Charges

Sewer Service Charges are described in Section 13.36.075 of the Half Moon Bay Municipal Code. Subsections A – G from Section 13.36.075 are shown below in Table 1-1.

		Table 1-1. Sewer Service Charges - HMB Municipal Code Chapter 13.36.075
Su	bsection and Title	
Α	Premises Which Shall Be Charged	Sewer service charges are prescribed for all premises connected to the sewerage system of the city.
В	Total Amount to Be Charged	Total dollar amount of the service charge shall equal the projected annual cost of sewage treatment and administrative overhead plus any delinquent charge factor. This amount shall be adopted annually by the city council as part of the city sewer utility budget. Sewage treatment includes, but is not limited to, the costs of operation and maintenance, repairs, and capital improvements of the sewage treatment plant and sewage collection systems. The "delinquent charge factor" shall be determined by the city manager, and shall not exceed eighty percent of the annual cost of sewage treatment and administrative overhead. In the event that the amount actually collected by the city exceeds the amount to be charged for that fiscal year, the excess amount shall be applied to reduce the "total amount to be charged" for the following year.
С	Basis for Individual	Sewer service charges shall be imposed based upon the volume and
U	Charges	strength of the wastewater discharged by individual premises.
		The premises within each of the following classes are recognized as having similar sewage volume and sewage strength characteristics:
D	Class of Premises	Residential Classes: 1) Residential Single; 2) Residential Multiple; 3) Trailer Park; 4) Condominium hotel projects. Nonresidential Classes: 1) Retirement Home; 2) Restaurant; 3) Office; 4) Stores, general commercial; 5) Medical; 6) Hotel/motel; 7) Recreational; 8) School; 9) Not classifiable.
E	Wastewater Strength	A wastewater strength factor for each individual premises shall be determined based upon the class of the premises. The wastewater strength factor for each class shall be expressed as a percentage of residential class strength. The strength factor for each class is a follows: Residential Classes: 1) Residential Single-100%; 2) Residential Multiple-100%; 3) Trailer Park-100%; 4) Condominium hotel projects-100%. Nonresidential Classes: 1) Retirement Home-100%; 2) Restaurant-180%; 3) Office-60%; 4) Stores, general commercial-85.71%; 5) Medical-100%; 6) Hotel/motel-122.86%; 7) Recreational-114.29%; 8) School-65.71%; 9) Not classifiable-
F	Wastewater Volume	Determined individually. The volume of wastewater for each premises shall be determined through water consumption data supplied by the Coastside County Water District. The periods for which water consumption data shall be collected are: 1) Wet Weather (WW). The fourmonth period from November through February during which irrigation is at a minimum; 2) Twelve-Month (12 Month) Total. The twelve-month period from April through March. Residential Classes: 1) Residential Single-WW; 2) Residential Multiple-WW; 3) Trailer Park-WW; 4) Condominium hotel projects-WW. Nonresidential Classes: 1) Retirement Home-WW; 2) Restaurant-12 Month; 3) Office-WW; 4) Stores, general commercial-12 Month; 5) Medical-12 Month; 6) Hotel/motel-12 Month; 7) Recreational-WW; 8) School-WW; 9) Not classifiable-Determined individually. The wastewater volume for each individual parcel shall be calculated in hundreds of cubic feet (HCF) using the following formulae: 1) Premises Using Wet Weather Data Collection Period. The sum of water used from November through February, but not less than eight HCF for any two-month period. 2) Premises Using 12-Month Total Data Collection Period. The sum of water used the prior year, as reflected in water meter readings for the 12-Month period from April 1 through March 31, divided by three, but not less than eight HCF for any two-month period.
G	Calculation of Charge for Individual Premises	The charge for each individual premises shall be calculated such that: Charge = (Wastewater Volume) x (Wastewater Strength) x (Constant) = "Total Amount to be Charged" Where Charge is the charge imposed on each premises in the city.

The current Sewer Service Charge is \$33.58 per 16 HCF for four months (hundred cubic feet; one HCF equals approximately 748 gallons). The minimum charge per individual premises is \$537.28 per year. The equivalent charge per HCF is approximately \$11.19 (\$537.28 divided by 48 HCF per year). The current annual average bill of all Single Family rate payers equals approximately \$830 or approximately \$69 per month.

Annual Sewer Service Charges for Residential Single Family customers for the past 32 years, from 1988-89 through 2019-20 (the current fiscal year), are shown in the figure below. Note that the annual charges shown are for a customer with discharge of 10 HCF per two-months (60 HCF per year) which is approximately the current average discharge for the Residential Single Family customer class.

Note that the charges increased by 132 percent (\$383) between 2008-09 (\$289) and 2013-14 (\$672).

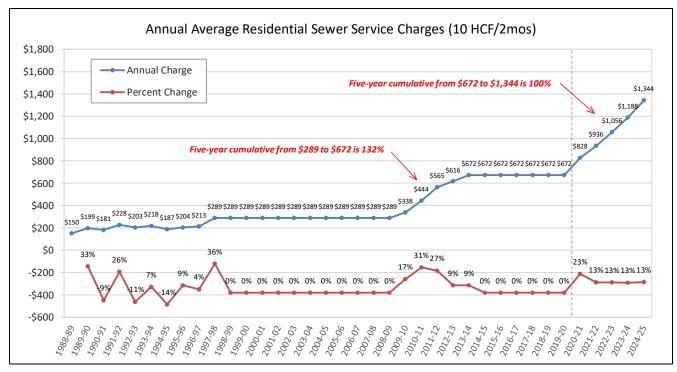


Figure 1-1. Historic Sewer Service Charges

Section 2

Customer Wastewater Discharge Characteristics

The purpose of this section is to summarize the number of residential and nonresidential users and their corresponding wastewater discharge characteristics.

2.1 City Municipal Code Regulations

Sewer Service Charges are described in Section 13.36.075 of the Half Moon Bay Municipal Code.³ Sewer service charges are imposed based upon the volume and strength of the wastewater discharged by individual premises (see Subsection C from Municipal Code Section 13.36.075). Individual charges are collected on the tax roll pursuant to Section 5473 of the Health and Safety Code. The city manager may collect an individual charge at his or her discretion without use or reference to the tax roll.

Subsection D (Classes of Premises), Subsection E (Wastewater Strength Factor) and Subsection F (Water Consumption Data Collection Period) from Section 13.36.075 of the Half Moon Bay Municipal Code are summarized in the table below.

Table 2-1. Current Mu	nicipal Code - Sewer Servic	e Charges
Subsection D Classes of Premises	Subsection E Wastewater Strength Factor	Subsection F Water Consumption Data Collection Period
Residential		
Residential Single Family	100.00%	Wet-weather
Residential Multiple Family	100.00%	Wet-weather
Residential Assign	100.00%	Wet-weather
Mobile Home	100.00%	Wet-weather
Nonresidential		
Retirement	100.00%	Wet-weather
Restaurant	180.00%	12-month total
Office	60.00%	Wet-weather
Commercial	85.71%	12-month total
Medical	100.00%	12-month total
Hotel/Motel	122.86%	12-month total
Recreational	114.29%	Wet-weather
School	65.71%	Wet-weather
Not Classifiable	determine	d individually

³ Single-family residential equivalents are established in Section 13.36.080 of the Half Moon Bay Municipal Code but are used for calculating connection charges (also known as development charges or capacity charges). Single-family residential equivalents are not used to calculate sewer service charges.

2.2 Customer Wastewater Discharge Volume Estimates

Sewer service charges are imposed based upon the volume and strength of the wastewater discharged by individual premises. Subsection F (Water Consumption Data Collection Period) states that, "The wastewater volume for each individual is calculated in hundreds of cubic feet (HCF) using the following formulas:

- 1) Premises Using Wet Weather Data Collection Period. The sum of water used from November through February, but not less than eight HCF for any two-month period.
- 2) Premises Using 12-Month Total Data Collection Period. The sum of water used the prior year, as reflected in water meter readings for the 12-Month period from April 1 through March 31, divided by three, but not less than eight HCF for any two-month period."

Water use data is provided to the City by the Coastside County Water District (CCWD).

Water use data and estimated annual wastewater discharged by classes of premises are summarized in the table below. Water use is adjusted to account for mixed use on parcels and for irrigation where applicable.

Residential Single Family water use is also adjusted for accounts which have substantial outdoor water use during the wet weather period. The adjustment recognizes that winter water use above 50 HCF per four months (approximately 310 gallons per day) includes outdoor water use. The adjustment is made for 140 accounts and 26,226 HCF.

Table 2-2. Customer Wastewater Discharge Volume Estimates											
							Wet	Adjustment	Estimat	ed	
UNLESS INDICATED	Water	Use for 2-	month peri	ods begin	ning on the	e 15th	Weather	for Accts w/	Annua	I	
ALL VALUES IN HCF	2018	2019	2019	2018	2018	2018	4 Months	>150 HCF	Wastewa	iter	
Classes of Premises	Dec-Jan	Feb-Mar	Apr-May	Jun-Jul	Aug-Sep	Oct-Nov	Dec-Mar	per Yr/Acct	HCF	mg	Accts
Residential Single Family	39,096	34,454	33,224	44,165	49,915	45,277	73,550	26,226	194,424	145	3,317
Residential Multiple Family	2,646	2,712	2,799	2,847	2,850	2,748	5,358		16,074	12	204
Mobile Home							5,742		17,225	12.9	5
Retirement Home							2,097		6,291	4.7	73
Office			monthly w	ater use n	ot shown;		777		2,331	1.7	49
School		V	vater use is	adjusted	to accoun	t	1,106		3,318	2.5	12
Recreational			for mixe	ed use on	parcels		573		1,719	1.3	4
Commercial			and	for irrigat	ion				29,154	22	170
Medical									1,580	1.2	23
Hotel/Motel									24,508	18	14
Restaurant						13,873	10	35			
Totals									310,498	232	3,906

2.3 Customer Wastewater Strength Estimates

Wastewater discharge characteristics for users of a wastewater system are typically expressed in terms of average annual values for Flow (in gallons per day), BOD (in pounds per day) and TSS (in pounds per day). Characteristics are assigned to each class of premises or customer and are used to develop Sewer Service Charges that recover wastewater system costs in proportion to each user's level of use.⁴

Development of wastewater characteristics (for any user) reflect that fact that the actual volume of wastewater discharged from a user, and the concentration (strength) of pollutants in the wastewater (BOD and TSS) are not measured directly. There are typically no flow meters on sewer service laterals to measure the volume and rate of wastewater flow, nor is the wastewater discharge through the laterals sampled and subject to laboratory analysis to determine the level of BOD and TSS in the wastewater.

Estimated wastewater strengths by classes of premises are summarized in the table below. Values for BOD and TSS are based on user strength characteristics developed by other, similar agencies with wastewater systems or values published in the State of California's *Revenue Program Guidelines*.

Table 2-3. Customer Wastewater Strength Estimates											
					A۱	erage Mont	hly	Concei	ntration	Load	
			Annual	Annual	Wastewa	ater (not incl	uding I/I)	BOD	TSS	BOD	TSS
Classes of Premises	Accounts	Units	HCF	mg	HCF	gpd	mgd	mg/L	mg/L	pounds	pounds
Residential Single Family	3,317	3,324	194,424	145	4.9	120	0.398	310	330	376,043	400,304
Residential Multiple Family	204	321	16,074	12	7	161	0.033	310	330	31,089	33,095
Mobile Home	5	538	17,225	13	287	7,061	0.035	310	330	33,315	35,464
Retirement Home	73	272	6,291	5	7	177	0.013	310	330	12,168	12,953
Office	49	0	2,331	2	4	98	0.005	150	80	2,182	1,164
School	12	0	3,318	2	23	567	0.007	150	80	3,105	1,656
Recreational	4	0	1,719	1	36	881	0.004	400	500	4,290	5,363
Commercial	170	1	29,154	22	14	351	0.060	200	200	36,379	36,379
Medical	23	0	1,580	1	6	141	0.003	310	330	3,056	3,254
Hotel/Motel	14	0	24,508	18	146	3,588	0.050	400	600	61,164	91,746
Restaurant	35	0	13,873	10	33	812	0.028	1000	800	86,557	69,246
Totals	3,906	4,456	310,498	232			0.636	335	356	649,349	690,623
pounds per day > 1,779 1,892											1,892

2.4 Senior Apartments

The City seeks to create a new customer class for Senior Apartments. Currently, Senior Apartments are billed the Retirement Home customer class sewer service charges. There are currently no Retirement Homes in the City, but the City will retain the Retirement Homes customer class. The sewer service charges for the Senior Apartments customer class and the Retirement Homes customer class will be the same.

⁴ BOD and TSS are conventional pollutants that are removed from wastewater during the treatment process. BOD is an acronym for biochemical oxygen demand. TSS is an acronym for total suspended solids.

2.5 Accessory Dwelling Units

The City is required to comply with California State laws regarding the location and permitting requirements for Accessory Dwelling Units (ADUs). The City has experienced a significant increase in the number of property owners seeking to develop ADUs in response to the increases in housing related costs and the relaxation of permitting requirements. Based upon City development records and County Assessor records there are approximately fifty (50) City sewer accounts identified as a single-family residential account with two (2) dwelling units.

In light of the increase (and anticipated continued interest in ADU development), the City seeks to create a category for those Residential Single-Family premises with an ADU. ADU water usage data is not available since most ADUs are not separately metered by CCWD, therefore analysis of wastewater discharge based on winter water use is not possible.

Based upon the typical (and allowable) size of ADUs, the City is recommending establishing wastewater discharge for Residential Single Family premises with one or more ADUs at 79 HCF per year (1.5 times the average Single Family wastewater discharge volume of approximately 53 HCF per year).

Section 3

Evaluation of Cash Flow and Sewer Service Charges

Revenue, expenditures, reserve levels, and Sewer Service Charges are summarized in this section. Expenditures, revenues and fund balances for FY19 are from the City's Sewer Fund budget. Projected cash flow for FY20 – FY25 were developed as part of this study.

3.1 Sewer Fund Revenues and Expenditures

Revenues. The City's Sewer Fund is considered an enterprise fund. An enterprise fund is a self-supporting government fund that provides a specialized service such as sewer services. For accounting purposes, the City's Sewer Enterprise Fund is shown in two internal funds – Fund 05, the Sewer Operating Fund, and Fund 06, the Sewer Capital Fund. For both funds in total, 99 percent of revenues are from Sewer Service Charges. Revenues for the current fiscal year, FY20, from sewer service charges are summarized by classes of premises in Table 3-1.

	Applied on	Percent
Classes of Premises	Tax Roll	of Total
Residential Single Family	\$2,759,452	62.2%
Residential Multiple Family	\$221,964	5.0%
Mobile Home	\$287,646	6.5%
Retirement	\$146,375	3.3%
Office	\$21,653	0.5%
School	\$25,221	0.6%
Recreational	\$22,567	0.5%
Commercial	\$308,187	6.9%
Medical	\$21,556	0.5%
Hotel/Motel	\$340,519	7.7%
Restaurant	\$282,359	6.4%
Totals	\$4,437,499	100%

Expenditures. FY19 estimated expenditures, FY 20 budgeted expenditures, and projected expenditures for FY21 – FY25 for Fund 05 and Fund 06 are summarized in the table below. Total expenditures for FY21 – FY25 (five years) are approximately \$35,473,000. Approximately eight percent, \$9,300,000, of expenditures are for City and SAM capital projects.

	Table 3	3-2. Expendit	tures FY19 – I	FY25			
	Estimated	Budget			Projected		
All Values \$ thousand	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
Sewer Operating Fund 05							
Operations & Maintenance							
Salaries & Benefits	281	323	335	345	355	366	377
Materials & Supplies	20	20	100	103	106	109	112
SAM Collection/JPA - Treatment	3,360	3,024	2,800	2,884	2,971	3,060	3,152
SAM Collection/JPA - Capital	0	0	0	0	0	0	(
Contract Services & Other	414	1,126	711	732	754	777	800
Office & Equipment	67	69	15	15	15	15	15
Total Operations & Maintenance	4,143	4,563	3,961	4,079	4,201	4,327	4,450
Other Financing Sources/(Uses)							
Transter from Sewer Capital Fund	300	2,006	0	0	0	0	
Transfer to Equipment/Risk	(197)	(208)	(208)	(215)	(221)	(228)	(235
Transfer to General Fund	(461)	(472)	(472)	(486)	(501)	(516)	(531
Total Other Financing	(358)	1,325	(681)	(701)	(722)	(744)	(766
Total Expenditures + Transfers	4,501	3,237	4,642	4,780	4,923	5,071	5,22
Sewer Capital Fund 06							
Operations & Maintenance							
Loss on Investment in SAM	175	180	186	192	198	204	21
Depreciation	100	100	103	106	109	112	11
Total Operations & Maintenance	275	280	289	298	307	316	32
City Capital Projects	5,408	3,845	810	660	630	610	61
SAM Capital Projects	500	1,176	1,126	1,160	1,195	1,231	1,26
Other Financing Sources/(Uses)							
Transter to Sewer Operating Fund	316	2,023	0	0	0	0	0
Total Other Financing	316	2,023	0	0	0	0	0
Total All Expenditures + Transfers	6,499	7,324	2,225	2,118	2,132	2,157	2,203

3.2 Sewer Fund Cash Flow

The combined cash flow for Fund 05 and Fund 06 is summarized in the table below for FY19 – FY25. Until FY25, the combined cash balance is decreasing as the balance is being used to fund expenditures. In FY25, revenues and expenditures are nearly matched. The ending balance for FY25 is approximately \$1,802,000.

Table 3-3. Fund Cash Flow FY19 - FY25										
	Estimated	Budget			Projected			Total		
All Values \$ thousand	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	FY21-FY25		
Sewer Funds 05 and 06										
Beginning Balance, July 1	24,888	13,974	7,945	5,674	3,959	2,696	1,938			
Revenues										
Sewer Service Charges	4,352	4,437	4,437	5,069	5,713	6,416	7,250	28,885	98%	
Interest	93	95	159	113	79	54	39	444	2%	
Total Revenue	4,445	4,532	4,596	5,182	5,792	6,470	7,289	29,329	100%	
Expenditures										
SAM Collection/JPA - Treatment	3,360	3,024	2,800	2,884	2,971	3,060	3,152	14,867	42%	
SAM Capital Projects	500	1,176	1,126	1,160	1,195	1,231	1,268	5,980	17%	
Loss on Investment in SAM	175	180	186	192	198	204	210	990	3%	
City Capital Projects	5,408	3,845	810	660	630	610	610	3,320	9%	
Contracts & Other	501	1,216	826	850	875	901	927	4,379	12%	
Salaries & Benefits	281	323	335	345	355	366	377	1,778	5%	
Transfers Out	674	697	681	701	722	744	766	3,614	10%	
Depreciation	100	100	103	106	109	112	115	545	2%	
Total Expenditures	11,000	10,561	6,867	6,898	7,055	7,228	7,425	35,473	100%	
Excess Revenue Over / (Under)	(6,555)	(6,029)	(2,271)	(1,716)	(1,263)	(758)	(136)			
Ending Balance, June 30	18,334	7,945	5,674	3,959	2,696	1,938	1,802			

3.3 Sewer Fund Reserves

Two types of reserves are recommended for the Sewer Fund – an Operating Reserve and a Capital Improvements Reserve. Each reserve is described below.

Operating Reserve. The Operating Reserve shall be used in response to revenue shortfall or disruption conditions or unanticipated capital or operations expenses related to system failures or disruptions. The Operating Reserves will be relied upon to ensure the safe, uninterrupted operation and delivery of utility services at all times. The level of Operating Reserves shall be based on the funding required to sustain the utility for a specified number of days of operations in the event of a shortfall or disruption of revenues, or a significant and unanticipated system failure requiring expensive and timely corrective action. The budgeted minimum reserve balance shall be equal to 75 days (approximately 20.5%) of budgeted expenditures excluding capital, loss on investments and depreciation. Annually, this equals approximately \$700,000.

Capital Improvements Reserve. The Capital Improvement Reserve Fund is to be used to ensure sustainable funding for rehabilitation and replacement of infrastructure and capital equipment; cover major unplanned increases in capital project costs; fund capital needs due to unforeseen circumstances; fund improvements when the asset has a fairly short life expectancy and other financing is not cost effective or timely. The Capital Improvements Reserve Fund may be an unrestricted reserve that is a component of the utility's fund balance and is subject to the guidelines of Proposition 218. The budgeted minimum reserve balance target may be up to 2% of Net Total Capital Assets. Annually, this represents approximately \$200,000; well below actual replacement costs of the system.

3.4 Cost of Service Allocation Percentages

Cost of service allocation percentages are developed based on allocation of the FY21 operating budget among functional cost categories of flow, BOD, TSS and account. The functional cost categories each represent a service provided to customers. Flow, BOD and TSS are treated and removed from wastewater discharges and each customer account shares equally administrative, management and other costs related to the wastewater enterprise.

	Budget (\$000)	ı	Percentage A	Mocation			cation		
Expense Category	2020-21	Flow	BOD	SS	Account	Flow	BOD	SS	Account
Operating									
SAM Authority	\$5,786	50%	20%	20%	10%	\$2,893	\$1,157	\$1,157	\$579
Other	\$826	50%	20%	20%	10%	\$413	\$165	\$165	\$83
Depreciation	\$103	0%	0%	0%	100%	\$0	\$0	\$0	\$103
Transfers Out	\$681	0%	0%	0%	100%	\$0	\$0	\$0	\$681
Total Operating	\$7,396					\$3,306	\$1,322	\$1,322	\$1,445
			allo	cation per	centages >	45%	<i>18%</i>	18%	<i>20%</i>

3.5 Unit Costs of Service

Unit costs of service are calculated for each fiscal year by dividing the revenue required from Sewer Service Charges shown in Table 3-3 by the number of units of service shown in Table 2-3. Calculations for each fiscal year and each unit of service are shown in Appendix A, Table A-1, and summarized in the table below. Unit costs of service are used to calculate the amount of revenue required from Sewer Service charges from each customer class.

	Table 3-5. Unit Costs of Service										
Fiscal Year	Unit of Service >	\$/kgals	\$/pound	\$/pound	\$/acct-unit						
2020-21		\$8.54	\$1.22	\$1.15	\$183						
2021-22		\$9.76	\$1.40	\$1.31	\$208						
2022-23		\$10.99	\$1.57	\$1.48	\$235						
2023-24		\$12.35	\$1.77	\$1.66	\$264						
2024-25		\$13.95	\$2.00	\$1.88	\$298						

3.6 Revenue Required from Classes of Premises

Revenue required from Sewer Service Charges for each class of premises is shown in the table below. The amount of revenue is calculated by multiplying the unit costs of service shown in Table 3-5 by the number of units of service shown in Table 2-3. Calculations for each fiscal year and each unit of service are shown in Appendix A, Table A-2, and summarized in the table below.

Revenue - Flow, BOD, TSS and Accounts/Units										
2020-21	2021-22	2022-23	2023-24	2024-25						
\$2,769,544	\$3,161,828	\$3,562,457	\$4,003,926	\$4,524,216						
\$237,424	\$271,011	\$305,380	\$343,218	\$387,804						
\$289,927	\$330,769	\$372,837	\$419,010	\$473,384						
\$119,708	\$136,512	\$153,915	\$172,969	\$195,395						
\$27,862	\$31,794	\$35,831	\$40,270	\$45,485						
\$29,087	\$33,239	\$37,426	\$42,069	\$47,527						
\$23,115	\$26,414	\$29,745	\$33,433	\$37,793						
\$303,587	\$346,814	\$390,600	\$439,015	\$496,062						
\$21,775	\$24,863	\$28,011	\$31,483	\$35,575						
\$339,268	\$387,675	\$436,599	\$490,687	\$554,751						
\$280,271	\$320,467	\$360,664	\$405,570	\$458,508						
	\$2,769,544 \$237,424 \$289,927 \$119,708 \$27,862 \$29,087 \$23,115 \$303,587 \$21,775 \$339,268	\$2,769,544 \$3,161,828 \$237,424 \$271,011 \$289,927 \$330,769 \$119,708 \$136,512 \$27,862 \$31,794 \$29,087 \$33,239 \$23,115 \$26,414 \$303,587 \$346,814 \$21,775 \$24,863 \$339,268 \$387,675	\$2,769,544 \$3,161,828 \$3,562,457 \$237,424 \$271,011 \$305,380 \$289,927 \$330,769 \$372,837 \$119,708 \$136,512 \$153,915 \$27,862 \$31,794 \$35,831 \$29,087 \$33,239 \$37,426 \$23,115 \$26,414 \$29,745 \$303,587 \$346,814 \$390,600 \$21,775 \$24,863 \$28,011 \$339,268 \$387,675 \$436,599	\$2,769,544 \$3,161,828 \$3,562,457 \$4,003,926 \$237,424 \$271,011 \$305,380 \$343,218 \$289,927 \$330,769 \$372,837 \$419,010 \$119,708 \$136,512 \$153,915 \$172,969 \$27,862 \$31,794 \$35,831 \$40,270 \$29,087 \$33,239 \$37,426 \$42,069 \$23,115 \$26,414 \$29,745 \$33,433 \$303,587 \$346,814 \$390,600 \$439,015 \$21,775 \$24,863 \$28,011 \$31,483 \$339,268 \$387,675 \$436,599 \$490,687						

3.7 Recommended Sewer Service Charges

The amount of revenue required from Sewer Service charges for each customer class is used to develop either a flat charge for Residential, Mobile Home, Senior Apartments (a new class added by the City) and Retirement classes or a flow-based charge plus the account/unit charge for all other classes. The account/unit charge is included in the flat charge for the Residential, Mobile Home, Senior Apartment, and Retirement classes. Calculations for each fiscal year and each unit of service are shown in Appendix A, Tables A-3a through A-3e. Recommended Sewer Service Charges are summarized in the table below.

	Table 3-7.	Recommende	ed Sewer S	ervice Char	ges			
Classes of Premises	Current 2	019-20 Rate Strı	ıcture	2020-21	2021-22	2022-23	2023-24	2024-25
Residential/Mobile Home/Retirement *	<u>Minimum</u>	<u>@ 60 HCF/year</u>	Avg/year		<u>Per Acc</u>			
Residential Single Family	\$537	\$672	\$830	\$828	\$936	\$1,056	\$1,188	\$1,344
Residential Single Family w/ADU	<<< no	current charges >	>>	\$960	\$1,104	\$1,236	\$1,392	\$1,572
Residential Multiple Family	\$537	\$672	\$691	\$828	\$936	\$1,056	\$1,188	\$1,344
Mobile Home	\$537	na	\$535	\$504	\$576	\$648	\$732	\$828
Senior Apartments (New Class)				\$504	\$576	\$648	\$732	\$828
Nonresidential **	<u>Minimum</u>				<u>Per Acc</u>	count or Unit Pe	er Year	
Retirement Homes	\$537	na	\$538	\$504	\$576	\$648	\$732	\$828
Annual Account Charge	<u>Minimum</u>				<u>Per</u>	Account Per Ye	<u>ear</u>	
All classes	varies by strength			\$183	\$208	\$235	\$264	\$298
Flow Rate, \$/HCF	Strength Factor	Above Minimum			<u>Ar.</u>	nual Water Us	<u>e</u>	
Office	60.00%	\$6.72		\$8.11	\$9.26	\$10.44	\$11.72	\$13.25
School	65.71%	\$7.36		\$8.11	\$9.26	\$10.44	\$11.72	\$13.25
Recreational	114.29%	\$12.79		\$13.03	\$14.88	\$16.77	\$18.83	\$21.28
Commercial	85.71%	\$9.59		\$9.35	\$10.68	\$12.04	\$13.52	\$15.28
Medical	100.00%	\$11.19		\$11.12	\$12.70	\$14.32	\$16.08	\$18.17
Motel	122.86%	\$13.75		\$13.74	\$15.70	\$17.69	\$19.87	\$22.45
Restaurant	180.00%	\$20.15		\$19.75	\$22.56	\$25.43	\$28.56	\$32.27
Individual								
Annual Account Charge	<u>Minimum</u>							
All classes	varies by strength			\$183	\$208	\$235	\$264	\$298
Flow Rate, \$/HCF	Strength Factor	Above Minimum						
Individual premise	varies	varies by strength						
Flow Rate, \$/kgal				\$8.54	\$9.76	\$10.99	\$12.35	\$13.95
BOD Rate, \$/pound				\$1.22	\$1.40	\$1.57	\$1.77	\$2.00
TSS Rate, \$/pound				\$1.15	\$1.31	\$1.48	\$1.66	\$1.88

^{*} The current Residential/Mobile Home/Retirement annual charge is for a minimum of 48 HCF per year at \$33.58 per HCF per four months. Annual charges for use above 48 HCF increase in increments of \$33.58 for each additional HCF per four months. The annual charge for the new Single Family w/ADU category is calculated by adding the per account charge plus flow charges for 79 HCF per year (1.5 times the average Single Family wastewater discharge volume of 58 HCF [per year).

^{**} The current Nonresidential annual charge is for a minimum of 48 HCF per year at \$33.58 per HCF per four months times an adjustment for strength (BOD and TSS) of the discharge. Annual charges for use above 48 HCF increase in increments per additional 1 HCF plus an adjustment for the strength of the discharge.

3.8 Projected Expenditures, Revenues and Cash Flow

Revenues, expenditures and ending balances for FY20 – FY25 (six years) are summarized in the figure below. Values for FY20 are based on budget data; values for FY21 and onward are projected.

Expenditures for the five-year projected period, FY21 - FY25, are approximately \$35,300,000.

Revenues from the current level of Sewer Service Charges (approximately \$4,440,000 per year) would generate approximately \$22,190,000 over the five-year projected period. Revenues from Sewer Service Charges during the five-year projected period are calculated to increase by approximately \$6,700,000 from \$22,190,000 to \$28,890,000 based on the recommended increases in Sewer Service Charges.

Expenditures not funded by revenues are funded by use of cash balance.

Annual projected expenditures are shown in the figure below as stacked columns. The fiscal year ending cash balance is shown as a black line and the target ending balance (75 days of operating cash) is shown as a purple line. The fiscal year amount of revenue from Sewer Service Charges is shown as a red line. The percent increase in Single Family sewer service charges is shown as a blue line with data labels indicating the annual percent increase.

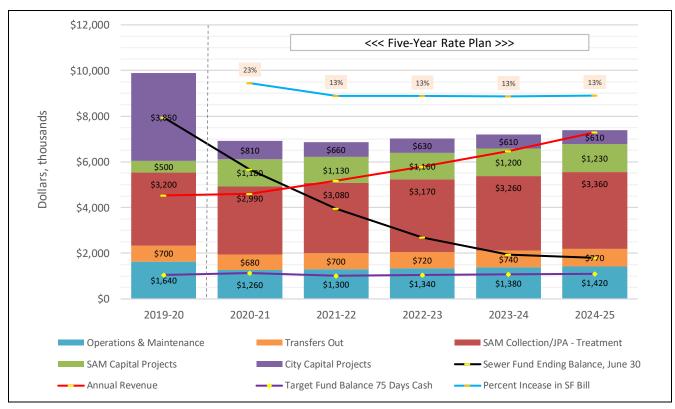
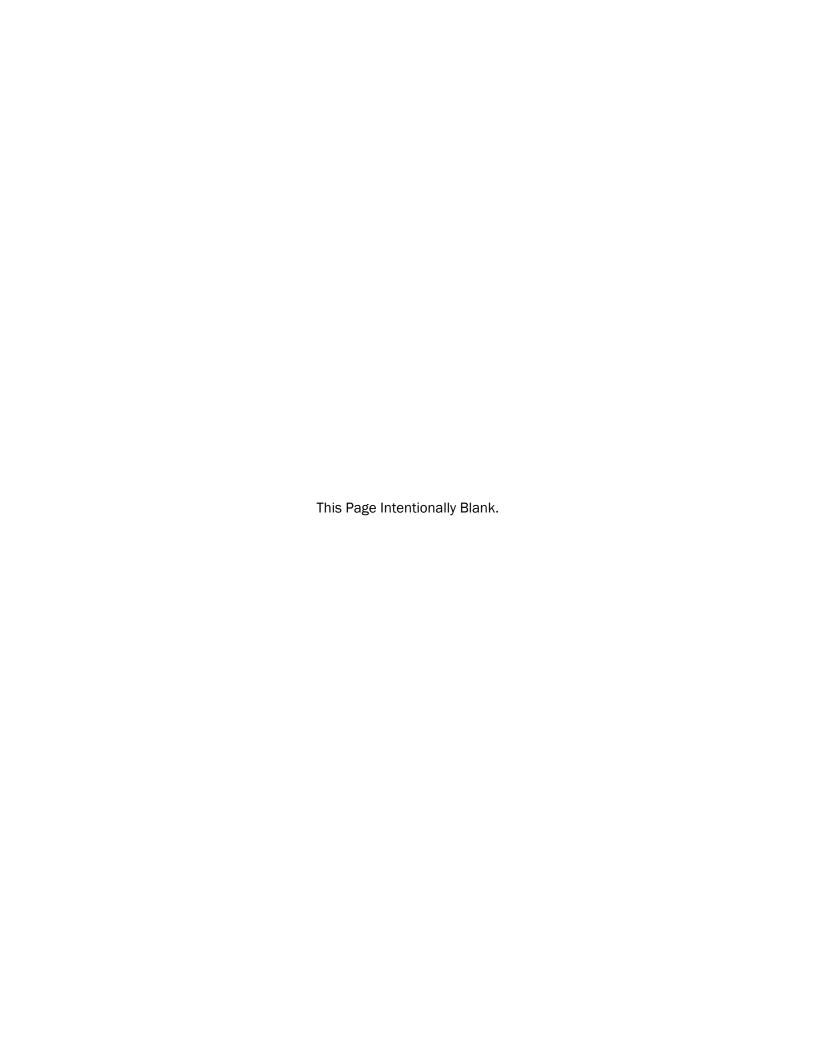


Figure 3-1. Projected Cash Flow and Sewer Service Charge Revenue Percent Increases



Section 4

Findings and Recommendations

4.1 Findings

Based on our evaluation of the City's wastewater fund finances, charges and customer data we have developed the following findings:

- Expenditures for the five-year projected period, FY21 FY25, are approximately \$35,300,000.
- Revenues from the current level of Sewer Service Charges (approximately \$4,440,000 per year) would generate approximately \$22,190,000 over the five-year projected period.
- Revenues from Sewer Service Charges during the five-year projected period are calculated to increase by approximately \$6,700,000 from \$22,190,000 to \$28,890,000 based on the recommended increases in Sewer Service Charges.
- Expenditures not funded by revenues are funded by use of the cash balance in Fund 06.

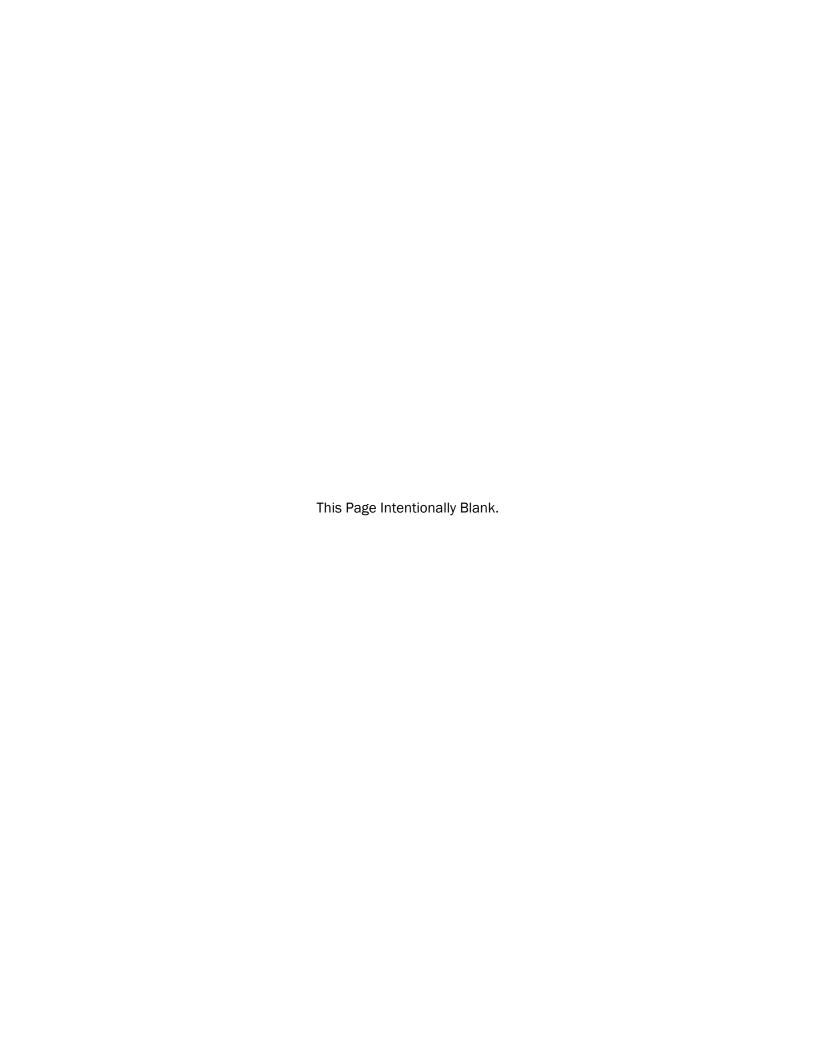
4.2 Recommendations

The following recommendations are offered regarding the City's wastewater enterprise:

Recommendation 1. Adopt the recommended Sewer Service Charges for FY21 - FY25.

Recommendation 2. Conduct an annual evaluation of the need for Sewer Service Charge increases.

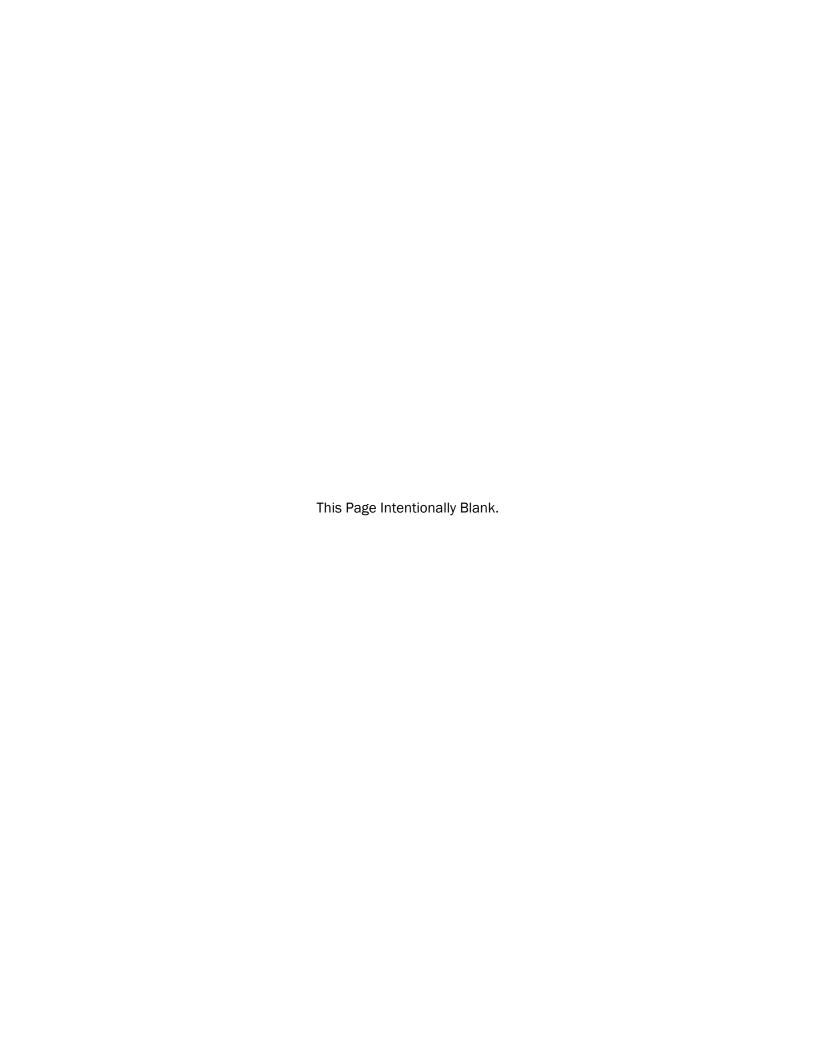
Recommendation 3. Update the HMB Municipal Code as necessary to reflect changes in the wastewater rate structure and bill calculations.



Section 5

Limitations

This document was prepared solely for the City of Half Moon Bay in accordance with professional standards at the time the services were performed and in accordance with the contract between the City of Half Moon Bay and Municipal Financial Services. This document is governed by the specific scope of work authorized by the City of Half Moon Bay; it is not intended to be relied upon by any other party. We have relied on information or instructions provided by the City of Half Moon Bay and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.



Appendix A: Rate Development Tables

Table A-1	Unit Costs of Service
Table A-2	Revenue Requirements by Customer Class
Table A-3a	FY 2020-21 Revenue Allocation and Sewer Service Charges
Table A-3b	FY 2021-22 Revenue Allocation and Sewer Service Charges
Table A-3c	FY 2022-23 Revenue Allocation and Sewer Service Charges
Table A-3d	FY 2023-24 Revenue Allocation and Sewer Service Charges
Table A-3e	FY 2024-25 Revenue Allocation and Sewer Service Charges

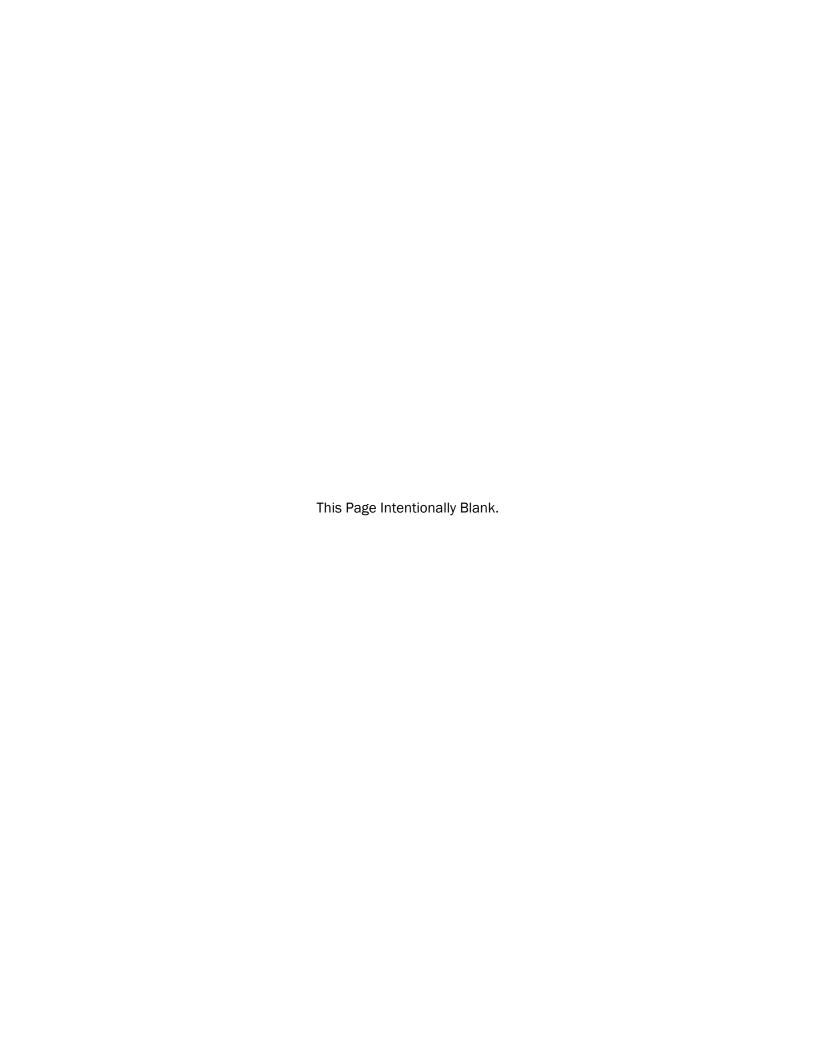


Table A-1 Unit Costs of Service

Item		Flow	BOD	SS	Account	Total	
Revenue Requirement (x\$000)							1
Allocation		45%	18%	18%	20%	100%	
2020-21		\$1,983	\$793	\$793	\$867	\$4,437	< from Table 3-3
2021-22		\$2,266	\$906	\$906	\$990	\$5,069	< from Table 3-3
2022-23		\$2,554	\$1,022	\$1,022	\$1,116	\$5,713	< from Table 3-3
2023-24		\$2,868	\$1,147	\$1,147	\$1,253	\$6,416	< from Table 3-3
2024-25		\$3,241	\$1,296	\$1,296	\$1,416	\$7,250	< from Table 3-3
Unit Costs Summary							
Fiscal Year	U	nit of Service >	\$/kgals	\$/pound	\$/pound	\$/acct-unit	
2020-21			\$8.54	\$1.22	\$1.15	\$183	_
2021-22		calculations	\$9.76	\$1.40	\$1.31	\$208	
2022-23		shown in	\$10.99	\$1.57	\$1.48	\$235	
2023-24		tables below	\$12.35	\$1.77	\$1.66	\$264	
2024-25			\$13.95	\$2.00	\$1.88	\$298	
Unit Costs of Service		2020-21	2021-22	2022-23	2023-24	2024-25	
Flow							1
Dollar Allocation, x\$000	from above >	\$1,983	\$2,266	\$2,554	\$2,868	\$3,241	
Flow, mg	from Table 2-3 >	232	232	232	232	232	
Unit Cost, \$/1000 gallons		\$8.54	\$9.76	\$10.99	\$12.35	\$13.95	
Unit Costs of Service		2020-21	2021-22	2022-23	2023-24	2024-25	
BOD							•
Dollar Allocation, x\$000	from above >	\$793	\$906	\$1,022	\$1,147	\$1,296	
Load, 1000 pounds	from Table 2-3 >	649	649	649	649	649	
Unit Cost, \$/pound		\$1.22	\$1.40	\$1.57	\$1.77	\$2.00	
Unit Costs of Service		2020-21	2021-22	2022-23	2023-24	2024-25	_
TSS							
Dollar Allocation, x\$000	from above >	\$793	\$906	\$1,022	\$1,147	\$1,296	
Load, 1000 pounds	from Table 2-3 >	691	691	691	691	691	
Unit Cost, \$/pound		\$1.15	\$1.31	\$1.48	\$1.66	\$1.88	
Unit Costs of Service		2020-21	2021-22	2022-23	2023-24	2024-25	
Accounts-Units							-
Dollar Allocation, x\$000	from above >	\$867	\$990	\$1,116	\$1,253	\$1,416	
Accounts-Units	from Table 2-3 >	4,762	4,762	4,762	4,762	4,762	
Unit Cost, \$/account-unit		\$183	\$208	\$235	\$264	\$298	

Table A-2
Revenue Requirements by Customer Class

				Flow Ch	arges, \$/1000 g	allons	
	Flow	_	2020-21	2021-22	2022-23	2023-24	2024-25
Classes of Premises	mgd	from Table A-1 >	\$8.54	\$9.76	\$10.99	\$12.35	\$13.95
Residential Single Family	0.398	< from Table 2-3	\$1,242,131	\$1,419,578	\$1,598,480	\$1,796,290	\$2,029,008
Residential Multiple Family	0.033	< from Table 2-3	\$102,693	\$117,364	\$132,154	\$148,508	\$167,748
Mobile Home	0.035	< from Table 2-3	\$110,045	\$125,766	\$141,615	\$159,140	\$179,757
Retirement	0.013	< from Table 2-3	\$40,192	\$45,933	\$51,722	\$58,123	\$65,653
Office	0.005	< from Table 2-3	\$14,895	\$17,023	\$19,168	\$21,540	\$24,331
School	0.007	< from Table 2-3	\$21,198	\$24,226	\$27,279	\$30,655	\$34,627
Recreational	0.004	< from Table 2-3	\$10,982	\$12,551	\$14,133	\$15,882	\$17,939
Commercial	0.060	< from Table 2-3	\$186,258	\$212,867	\$239,693	\$269,355	\$304,251
Medical	0.003	< from Table 2-3	\$10,096	\$11,538	\$12,992	\$14,600	\$16,491
Motel	0.050	< from Table 2-3	\$156,577	\$178,946	\$201,497	\$226,432	\$255,767
Restaurant	0.028	< from Table 2-3	\$88,633	\$101,295	\$114,061	\$128,175	\$144,781
Totals	0.636		\$1,983,701	\$2,267,087	\$2,552,795	\$2,868,701	\$3,240,354
				BOD	Charges, \$/pou	ınd	
	BOD	_	2020-21	2021-22	2022-23	2023-24	2024-25
Classes of Premises	mg/L	from Table A-1 >	\$1.22	\$1.40	\$1.57	\$1.77	\$2.00
Residential Single Family	310	< from Table 2-3	\$458,772	\$526,460	\$590,387	\$665,596	\$752,086
Residential Multiple Family	310	< from Table 2-3	\$37,929	\$43,525	\$48,810	\$55,028	\$62,179
Mobile Home	310	< from Table 2-3	\$40,644	\$46,641	\$52,305	\$58,968	\$66,630
Retirement	310	< from Table 2-3	\$14,845	\$17,035	\$19,103	\$21,537	\$24,335
Office	150	< from Table 2-3	\$2,662	\$3,055	\$3,426	\$3,862	\$4,364
School	150	< from Table 2-3	\$3,788	\$4,347	\$4,875	\$5,496	\$6,210
Recreational	400	< from Table 2-3	\$5,234	\$6,006	\$6,735	\$7,593	\$8,580
Commercial	200	< from Table 2-3	\$44,383	\$50,931	\$57,115	\$64,391	\$72,758
Medical	310	< from Table 2-3	\$3,729	\$4,279	\$4,799	\$5,410	\$6,113
Dollar Allocation, x\$000	400	< from Table 2-3	\$74,620	\$85,630	\$96,028	\$108,261	\$122,328
Restaurant	1000	< from Table 2-3	\$105,600	\$121,180	\$135,895	\$153,206	\$173,115
Totals			\$792,206	\$909,089	\$1,019,478	\$1,149,348	\$1,298,698
		_		TSS	Charges, \$/pou	nd	
	TSS	_	2020-21	2021-22	2022-23	2023-24	2024-25
Classes of Premises	mg/L	from Table A-1 >	\$1.15	\$1.31	\$1.48	\$1.66	\$1.88
Residential Single Family	330	< from Table 2-3	\$460,349	\$524,398	\$592,449	\$664,504	\$752,571
Residential Multiple Family	330	< from Table 2-3	\$38,059	\$43,355	\$48,981	\$54,938	\$62,219
Mobile Home	330	< from Table 2-3	\$40,784	\$46,458	\$52,487	\$58,871	\$66,673
Retirement	330	< from Table 2-3	\$14,896	\$16,968	\$19,170	\$21,501	\$24,351
Office	80	< from Table 2-3	\$1,338	\$1,524	\$1,722	\$1,932	\$2,188
Dollar Allocation, x\$000	80	< from Table 2-3	\$1,905	\$2,170	\$2,451	\$2,749	\$3,114
Recreational	500	< from Table 2-3	\$6,167	\$7,025	\$7,937	\$8,902	\$10,082
Commercial	200	< from Table 2-3	\$41,836	\$47,657	\$53,841	\$60,390	\$68,393
Medical	330	< from Table 2-3	\$3,742	\$4,262	\$4,815	\$5,401	\$6,117
Motel	600	< from Table 2-3	\$105,508	\$120,188	\$135,784	\$152,299	\$172,483
Restaurant	800	< from Table 2-3	\$79,633	\$90,712	\$102,484	\$114,948	\$130,182
Totals			\$794,217	\$904,716	\$1,022,122	\$1,146,434	\$1,298,371

Table A-2
Revenue Requirements by Customer Class

				Account (Charges, \$/acco	unt-unit	
	Accounts/		2020-21	2021-22	2022-23	2023-24	2024-25
Classes of Premises	Units	from Table A-1 >	\$183	\$208	\$235	\$264	\$298
Residential Single Family	3,324	< from Table 2-3	\$608,292	\$691,392	\$781,140	\$877,536	\$990,552
Residential Multiple Family	321 units	< from Table 2-3	\$58,743	\$66,768	\$75,435	\$84,744	\$95,658
Mobile Home	538 units	< from Table 2-3	\$98,454	\$111,904	\$126,430	\$142,032	\$160,324
Retirement	272 units	< from Table 2-3	\$49,776	\$56,576	\$63,920	\$71,808	\$81,056
Office	49	< from Table 2-3	\$8,967	\$10,192	\$11,515	\$12,936	\$14,602
School	12	< from Table 2-3	\$2,196	\$2,496	\$2,820	\$3,168	\$3,576
Recreational	4	< from Table 2-3	\$732	\$832	\$940	\$1,056	\$1,192
Commercial	170	< from Table 2-3	\$31,110	\$35,360	\$39,950	\$44,880	\$50,660
Medical	23	< from Table 2-3	\$4,209	\$4,784	\$5,405	\$6,072	\$6,854
Motel	14	< from Table 2-3	\$2,562	\$2,912	\$3,290	\$3,696	\$4,172
Restaurant	35	< from Table 2-3	\$6,405	\$7,280	\$8,225	\$9,240	\$10,430
Totals	4,762		\$871,446	\$990,496	\$1,119,070	\$1,257,168	\$1,419,076
				Revenu	e - Flow, BOD an	d TSS	
Classes of Premises			2020-21	2021-22	2022-23	2023-24	2024-25
Residential Single Family			\$2,161,252	\$2,470,436	\$2,781,317	\$3,126,390	\$3,533,664
Residential Multiple Family			\$178,681	\$204,243	\$229,945	\$258,474	\$292,146
Mobile Home			\$191,473	\$218,865	\$246,407	\$276,978	\$313,060
Retirement			\$69,932	\$79,936	\$89,995	\$101,161	\$114,339
Office			\$18,895	\$21,602	\$24,316	\$27,334	\$30,883
School			\$26,891	\$30,743	\$34,606	\$38,901	\$43,951
Recreational			\$22,383	\$25,582	\$28,805	\$32,377	\$36,601
Commercial			\$272,477	\$311,454	\$350,650	\$394,135	\$445,402
Medical			\$17,566	\$20,079	\$22,606	\$25,411	\$28,721
Motel			\$336,706	\$384,763	\$433,309	\$486,991	\$550,579
Restaurant			\$273,866	\$313,187	\$352,439	\$396,330	\$448,078
Totals			\$3,570,123	\$4,080,892	\$4,594,396	\$5,164,483	\$5,837,424
				Revenue - Flow,	BOD, TSS and A	ccounts/Units	
Classes of Premises			2020-21	2021-22	2022-23	2023-24	2024-25
Residential Single Family			\$2,769,544	\$3,161,828	\$3,562,457	\$4,003,926	\$4,524,216
Residential Multiple Family			\$237,424	\$271,011	\$305,380	\$343,218	\$387,804
Mobile Home			\$289,927	\$330,769	\$372,837	\$419,010	\$473,384
Retirement			\$119,708	\$136,512	\$153,915	\$172,969	\$195,395
Office			\$27,862	\$31,794	\$35,831	\$40,270	\$45,485
School			\$29,087	\$33,239	\$37,426	\$42,069	\$47,527
Recreational			\$23,115	\$26,414	\$29,745	\$33,433	\$37,793
Commercial			\$303,587	\$346,814	\$390,600	\$439,015	\$496,062
Medical			\$21,775	\$24,863	\$28,011	\$31,483	\$35,575
Motel			\$339,268	\$387,675	\$436,599	\$490,687	\$554,751
Restaurant			\$280,271	\$320,467	\$360,664	\$405,570	\$458,508
Totals			\$4,441,569	\$5,071,388	\$5,713,466	\$6,421,651	\$7,256,500

Table A-3a FY 2020-21 Revenue Allocation and Sewer Service Charges Values in italics are recommended rates

								Re	venue R	equirer	nent >	\$4,437,000		accts-units	Rate per Year
								Allocatio	n to acc	ounts-ı	ınits >	\$866,818	divided by	4,762	\$183
							1	Allocatio	n to flov	//BOD/	TSS >	\$1,983,435	\$793,374	\$793,374	
	Strer	ngth	Fle	ow				Equiv	alent Dw	elling l	<u>Jnits</u>	Flow	BOD	TSS	
	mg	:/I	Avg M	onthly	Volume	BOD	TSS	Flow	BOD	TSS	Res.	per kgal	per lb	perIb	Rate per
Classes of Premises	BOD	TSS	HCF	gpd	mgd	klbs/yr	klbs/yr	45%	18%	18%	Equiv.	\$8.54	<i>\$1.22</i>	<i>\$1.15</i>	HCF
Residential Single Family	310	330	4.9	120	0.398	376	400	0.45	0.18	0.18	1.00	\$1,241,964	\$459,448	\$459,861	\$11.12
Residential Multiple Family	310	330	6.6	161	0.033	31	33	0.60	0.18	0.18	1.00	\$102,679	\$37,985	\$38,019	\$11.12
Mobile Home	310	330	287	7,061	0.035	33	35	26.27	0.18	0.18	1.00	\$110,030	\$40,704	\$40,741	\$11.12
Retirement	310	330	7.2	177	0.013	12	13	0.66	0.18	0.18	1.00	\$40,186	\$14,866	\$14,880	\$11.12
Office	150	80	4	98	0.005	2	1	0.36	0.09	0.04	0.72	\$14,893	\$2,666	\$1,337	\$8.11
School	150	80	23	567	0.007	3	2	2.11	0.09	0.04	0.72	\$21,195	\$3,794	\$1,903	\$8.11
Recreational	400	500	36	881	0.004	4	5	3.28	0.23	0.27	1.18	\$10,981	\$5,242	\$6,160	\$13.03
Commercial	200	200	14	351	0.060	36	36	1.31	0.12	0.11	0.83	\$186,233	\$44,448	\$41,792	\$9.35
Medical	310	330	6	141	0.003	3	3	0.52	0.18	0.18	1.00	\$10,095	\$3,734	\$3,738	\$11.12
Motel	400	600	146	3,588	0.050	61	92	13.35	0.23	0.33	1.25	\$156,556	\$74,730	\$105,396	\$13.74
Restaurant	1,000	800	33	812	0.028	87	69	3.02	0.58	0.43	1.81	\$88,621	\$105,756	\$79,548	<i>\$19.75</i>
Totals	335	356			0.636	649	691					\$1,983,435	\$793,374	\$793,374	

Classes of Premises	Accts- Units	,	Accts-Units	Revenue Flow/BOD/TSS	Total	Flat Rate per Year
Residential Single Family	3,324	\$183	\$608,292	\$2,161,273	\$2,769,565	\$833.20
Residential Multiple Family	321	\$183	\$58,743	\$178,683	\$237,426	\$739.65
	comb	ine cus	stomer classe.	s and round to no	earest \$12 >	\$828.00
Mobile Home	538	\$183	\$98,454	\$191,475	\$289,929	\$538.90
Retirement	272	\$183	\$49,776	\$69,933	\$119,709	\$440.11
	comb	ine cus	stomer classe.	s and round to ne	earest \$12 >	\$504.00

Table A-3b FY 2021-22 Revenue Allocation and Sewer Service Charges Values in italics are recommended rates

								Re	venue R	equirer	nent >	\$5,069,000			Rate per
								Allocatio	on to acc	ounts-	units >	\$990,286	divided by	accts-units 4,762	<i>Year</i> \$208
							1	Allocatio	n to flow	/B0D/	/TSS >	\$2,265,952	\$906,381	\$906,381	
	Strer	ngth	Fle	ow				<u>Equiv</u> a	alent Dw	elling l	Jnits_	Flow	BOD	TSS	
	mg	<u>5</u> /I	Avg M	onthly	Volume	BOD	TSS	Flow	BOD	TSS	Res.	per kgal	per lb	per lb	Rate per
Classes of Premises	BOD	TSS	HCF	gpd	mgd	klbs/yr	klbs/yr	45%	18%	18%	Equiv.	<i>\$9.76</i>	\$1.40	\$1.31	HCF
Residential Single Family	310	330	4.9	120	0.398	376	400	0.45	0.18	0.18	1.00	\$1,418,868	\$524,892	\$525,363	\$12.70
Residential Multiple Family	310	330	6.6	161	0.033	31	33	0.60	0.18	0.18	1.00	\$117,305	\$43,395	\$43,434	\$12.70
Mobile Home	310	330	287	7,061	0.035	33	35	26.27	0.18	0.18	1.00	\$125,703	\$46,502	\$46,544	\$12.70
Retirement	310	330	7.2	177	0.013	12	13	0.66	0.18	0.18	1.00	\$45,910	\$16,984	\$16,999	\$12.70
Office	150	80	4	98	0.005	2	1	0.36	0.09	0.04	0.72	\$17,014	\$3,046	\$1,527	\$9.26
School	150	80	23	567	0.007	3	2	2.11	0.09	0.04	0.72	\$24,214	\$4,334	\$2,174	\$9.26
Recreational	400	500	36	881	0.004	4	5	3.28	0.23	0.27	1.18	\$12,545	\$5,988	\$7,038	\$14.88
Commercial	200	200	14	351	0.060	36	36	1.31	0.12	0.11	0.83	\$212,760	\$50,779	\$47,744	\$10.68
Medical	310	330	6	141	0.003	3	3	0.52	0.18	0.18	1.00	\$11,532	\$4,266	\$4,270	\$12.70
Motel	400	600	146	3,588	0.050	61	92	13.35	0.23	0.33	1.25	\$178,856	\$85,375	\$120,409	\$15.70
Restaurant	1,000	800	33	812	0.028	87	69	3.02	0.58	0.43	1.81	\$101,244	\$120,819	\$90,879	\$22.56
Totals	335	356			0.636	649	691					\$2,265,952	\$906,381	\$906,381	

Classes of Premises	Accts- Units	,	Accts-Units	Revenue Flow/BOD/TSS	Total	Flat Rate per Year
Residential Single Family	3,324	\$208	\$691,392	\$2,469,122	\$3,160,514	\$950.82
Residential Multiple Family	321	\$208	\$66,768	\$204,135	\$270,903	\$843.93
	comb	ine cus	tomer classe.	s and round to no	earest \$12 >	\$936.00
Mobile Home	538	\$208	\$111,904	\$218,749	\$330,653	\$614.60
Retirement	<u>272</u>	\$208	\$56,576	\$79,894	<u>\$136,470</u>	\$501.73
	comb	ine cus	tomer classe.	s and round to no	earest \$12 >	\$576.00

Table A-3c FY 2022-23 Revenue Allocation and Sewer Service Charges Values in italics are recommended rates

					Revenue Requirement > \$5,713,000							accts-units	Rate per Year		
								Allocatio	on to acc	ounts-ı	ınits >	\$1,116,099	divided by	4,762	<i>\$235</i>
							1	Allocatio	n to flov	//BOD/	TSS >	\$2,553,834	\$1,021,534	\$1,021,534	
	Strer	ngth	Flo	ow				Equiva	alent Dw	elling l	<u>Jnits</u>	Flow	BOD	TSS	
	mg	:/I	Avg M	onthly	Volume	BOD	TSS	Flow	BOD	TSS	Res.	per kgal	per lb	per lb	Rate per
Classes of Premises	BOD	TSS	HCF	gpd	mgd	klbs/yr	klbs/yr	45%	18%	18%	Equiv.	\$10.99	\$1.57	\$1.48	HCF
Residential Single Family	310	330	4.9	120	0.398	376	400	0.45	0.18	0.18	1.00	\$1,599,131	\$591,577	\$592,108	\$14.32
Residential Multiple Family	310	330	6.6	161	0.033	31	33	0.60	0.18	0.18	1.00	\$132,208	\$48,909	\$48,953	\$14.32
Mobile Home	310	330	287	7,061	0.035	33	35	26.27	0.18	0.18	1.00	\$141,673	\$52,410	\$52,457	\$14.32
Retirement	310	330	7.2	177	0.013	12	13	0.66	0.18	0.18	1.00	\$51,743	\$19,142	\$19,159	\$14.32
Office	150	80	4	98	0.005	2	1	0.36	0.09	0.04	0.72	\$19,176	\$3,433	\$1,721	\$10.44
School	150	80	23	567	0.007	3	2	2.11	0.09	0.04	0.72	\$27,290	\$4,885	\$2,450	\$10.44
Recreational	400	500	36	881	0.004	4	5	3.28	0.23	0.27	1.18	\$14,139	\$6,749	\$7,932	\$16.77
Commercial	200	200	14	351	0.060	36	36	1.31	0.12	0.11	0.83	\$239,790	\$57,231	\$53,810	\$12.04
Medical	310	330	6	141	0.003	3	3	0.52	0.18	0.18	1.00	\$12,998	\$4,808	\$4,813	\$14.32
Motel	400	600	146	3,588	0.050	61	92	13.35	0.23	0.33	1.25	\$201,579	\$96,221	\$135,706	\$17.69
Restaurant	1,000	800	33	812	0.028	87	69	3.02	0.58	0.43	1.81	\$114,107	\$136,169	\$102,425	<i>\$25.43</i>
Totals	335	356			0.636	649	691					\$2,553,834	\$1,021,534	\$1,021,534	

Classes of Premises	Accts- Units	,	Accts-Units	Revenue Flow/BOD/TSS	Total	Flat Rate per Year					
Residential Single Family	3,324	\$235	\$781,140	\$2,782,816	\$3,563,956	\$1,072.19					
Residential Multiple Family	321	\$235	\$75,435	\$230,069	\$305,504	\$951.73					
	combine customer classes and round to nearest \$12 >										
Mobile Home	538	\$235	\$126,430	\$246,540	\$372,970	\$693.25					
Retirement	272	\$235	\$63,920	\$90,044	\$153,964	\$566.04					
combine customer classes and round to nearest \$12 >											

Table A-3d FY 2023-24 Revenue Allocation and Sewer Service Charges Values in italics are recommended rates

					Revenue Requirement > \$6,416,000							accts-units	Rate per Year		
								Allocatio	on to acc	ounts-	units >	\$1,253,438	divided by	4,762	<i>\$264</i>
							1	Allocatio	n to flov	/B0D/	/TSS >	\$2,868,090	\$1,147,236	\$1,147,236	
	Strer	igth	Fle	ow				Equiva	alent Dw	elling l	Units	Flow	BOD	TSS	
	mg	/I	Avg M	onthly	Volume	BOD	TSS	Flow	BOD	TSS	Res.	per kgal	per lb	per lb	Rate per
Classes of Premises	BOD	TSS	HCF	gpd	mgd	klbs/yr	klbs/yr	45%	18%	18%	Equiv.	<i>\$12.35</i>	\$1.77	\$1.66	HCF
Residential Single Family	310	330	4.9	120	0.398	376	400	0.45	0.18	0.18	1.00	\$1,795,908	\$664,373	\$664,969	\$16.08
Residential Multiple Family	310	330	6.6	161	0.033	31	33	0.60	0.18	0.18	1.00	\$148,477	\$54,927	\$54,976	\$16.08
Mobile Home	310	330	287	7,061	0.035	33	35	26.27	0.18	0.18	1.00	\$159,106	\$58,859	\$58,912	\$16.08
Retirement	310	330	7.2	177	0.013	12	13	0.66	0.18	0.18	1.00	\$58,110	\$21,497	\$21,516	\$16.08
Office	150	80	4	98	0.005	2	1	0.36	0.09	0.04	0.72	\$21,536	\$3,855	\$1,933	\$11.72
School	150	80	23	567	0.007	3	2	2.11	0.09	0.04	0.72	\$30,649	\$5,486	\$2,751	\$11.72
Recreational	400	500	36	881	0.004	4	5	3.28	0.23	0.27	1.18	\$15,879	\$7,579	\$8,908	\$18.83
Commercial	200	200	14	351	0.060	36	36	1.31	0.12	0.11	0.83	\$269,297	\$64,273	\$60,432	\$13.52
Medical	310	330	6	141	0.003	3	3	0.52	0.18	0.18	1.00	\$14,597	\$5,400	\$5,405	\$16.08
Motel	400	600	146	3,588	0.050	61	92	13.35	0.23	0.33	1.25	\$226,384	\$108,062	\$152,405	\$19.87
Restaurant	1,000	800	33	812	0.028	87	69	3.02	0.58	0.43	1.81	\$128,148	\$152,925	\$115,029	<i>\$28.56</i>
Totals	335	356			0.636	649	691					\$2,868,090	\$1,147,236	\$1,147,236	

Classes of Premises	Accts- Units	,	Accts-Units	Revenue Flow/BOD/TSS	Total	Flat Rate per Year					
Residential Single Family	3,324	\$264	\$877,536	\$3,125,249	\$4,002,785	\$1,204.21					
Residential Multiple Family	321	\$264	\$84,744	\$258,380	\$343,124	\$1,068.92					
	comb	\$1,188.00									
Mobile Home	538	\$264	\$142,032	\$276,877	\$418,909	\$778.64					
Retirement	<u>272</u>	<u>\$264</u>	\$71,808	\$101,124	\$172,932	\$635.78					
	combine customer classes and round to nearest \$12 >										

Table A-3e FY 2024-25 Revenue Allocation and Sewer Service Charges Values in italics are recommended rates

					Revenue Requirement > \$7,250,000							accts-units	Rate per Year		
								Allocatio	n to acc	ounts-ı	units >	\$1,416,369	divided by	4,762	<i>\$298</i>
							1	Allocatio	n to flow	//BOD/	TSS >	\$3,240,906	\$1,296,362	\$1,296,362	
	Strer	ngth	Flo	ow				Equiva	alent Dw	elling l	<u>Jnits</u>	Flow	BOD	TSS	
	mg	:/I	Avg M	onthly	Volume	BOD	TSS	Flow	BOD	TSS	Res.	per kgal	per lb	per lb	Rate per
Classes of Premises	BOD	TSS	HCF	gpd	mgd	klbs/yr	klbs/yr	45%	18%	18%	Equiv.	<i>\$13.95</i>	\$2.00	\$1.88	HCF
Residential Single Family	310	330	4.9	120	0.398	376	400	0.45	0.18	0.18	1.00	\$2,029,353	\$750,733	\$751,406	\$18.17
Residential Multiple Family	310	330	6.6	161	0.033	31	33	0.60	0.18	0.18	1.00	\$167,777	\$62,067	\$62,123	\$18.17
Mobile Home	310	330	287	7,061	0.035	33	35	26.27	0.18	0.18	1.00	\$179,788	\$66,510	\$66,570	\$18.17
Retirement	310	330	7.2	177	0.013	12	13	0.66	0.18	0.18	1.00	\$65,664	\$24,292	\$24,313	\$18.17
Office	150	80	4	98	0.005	2	1	0.36	0.09	0.04	0.72	\$24,335	\$4,356	\$2,184	\$13.25
School	150	80	23	567	0.007	3	2	2.11	0.09	0.04	0.72	\$34,633	\$6,199	\$3,109	\$13.25
Recreational	400	500	36	881	0.004	4	5	3.28	0.23	0.27	1.18	\$17,943	\$8,565	\$10,066	\$21.28
Commercial	200	200	14	351	0.060	36	36	1.31	0.12	0.11	0.83	\$304,303	\$72,628	\$68,287	<i>\$15.28</i>
Medical	310	330	6	141	0.003	3	3	0.52	0.18	0.18	1.00	\$16,494	\$6,102	\$6,107	\$18.17
Motel	400	600	146	3,588	0.050	61	92	13.35	0.23	0.33	1.25	\$255,811	\$122,108	\$172,216	\$22.45
Restaurant	1,000	800	33	812	0.028	87	69	3.02	0.58	0.43	1.81	\$144,806	\$172,803	\$129,981	\$32.27
Totals	335	356			0.636	649	691					\$3,240,906	\$1,296,362	\$1,296,362	

Classes of Premises	Accts- Units	,	Accts-Units	Revenue Flow/BOD/TSS	Total	Flat Rate per Year					
Residential Single Family	3,324	\$298	\$990,552	\$3,531,493	\$4,522,045	\$1,360.42					
Residential Multiple Family	321	\$298	\$95,658	\$291,966	\$387,624	\$1,207.55					
	comb	ine cus	tomer classe.	s and round to no	earest \$12 >	\$1,344.00					
Mobile Home	538	\$298	\$160,324	\$312,868	\$473,192	\$879.54					
Retirement	272	\$298	\$81,056	\$114,269	\$195,325	\$718.11					
	comb	combine customer classes and round to nearest \$12 >									

CITY OF HALF MOON BAY

GUIDELINES FOR THE SUBMISSION AND TABULATION OF PROTESTS

Submittal of Protests

- 1. Any property owner may submit a written protest to the City Clerk, either by delivery to the office of the City Clerk at 501 Main Street, Half Moon Bay, CA 94019 or by submitting the protest at the public hearing. Please note on the envelope, "Sewer Service Charge Protest." Protests must be received by the end of the public hearing. No postmarks will be accepted.
- 2. Each protest must identify the affected property (by assessor's parcel number or street address) and include the signature of the record property owner. Email protests cannot be accepted. Although oral comments at the public hearing will not qualify as a formal protest unless accompanied by a written protest, the City Council welcomes input from the community during the public hearing on the proposed charges.
- 3. If a parcel served by the City is owned by more than a single record owner, each owner may submit a protest, but only one protest will be counted per parcel and any one protest submitted in accordance with these rules will be sufficient to count as a protest for that property.
- 4. In order to be valid, a protest must bear the original signature of the record owner with respect to the property identified on the protest and may not have been altered. Protests not bearing the original signature of a record owner shall not be counted.
- 5. Any person who submits a protest may withdraw it by submitting to the City Clerk a writing request that the protest be withdrawn. The withdrawal of a protest shall contain sufficient information to identify the affected parcel and the name of the record owner or record customer who submitted both the protest and the request that it be withdrawn.
- 6. A charge protest proceeding is not an election.
- 7. To ensure secrecy before tabulation, and transparency and accountability thereafter in the charge protest process, protests shall be maintained in confidence from their receipt until counted at the public hearing at which time they shall become disclosable public records.

Tabulation of Protests

- 1. The City Clerk shall determine the validity of all protests. The City Clerk shall not accept as valid any protest if the City Clerk determines that any of the following conditions exist:
- a. The protest does not identify a property served by the City.
- b. The protest does not bear an original signature of a record owner of the parcel identified on the protest.
- c. The protest does not state its opposition to the proposed charges.
- d. The protest was not received by the City Clerk before the close of the public hearing on the proposed charges.

- e. A request to withdraw the protest is received prior to the close of the public hearing on the proposed charges.
- f. The protest was altered by one other than the record owner who signed it.
- 2. The City Clerk's decision that a protest is not valid or does not apply to a specific charge shall constitute a final action of the City and shall not be subject to any internal appeal.
- 3. A majority protest exists if written protests are timely submitted and not withdrawn by the record owners of a majority of the properties subject to the proposed charge.
- 4. At the conclusion of the public hearing, the City Clerk shall complete the tabulation of all protests received, including those received during the public hearing and shall report the results of the tabulation to the City Council upon completion. If review of the protests received demonstrates that the number received is manifestly less than one-half of the parcels served by the City with respect to the charge which is the subject of the protest, then the Clerk may advise the City Council of the absence of a majority protest without determining the validity of all protests.
- 5. If, at the conclusion of the public hearing, the city Clerk determines that she will require additional time to tabulate the protests, she shall so advise the city Council, which may adjourn the meeting to allow the tabulation to be completed on another day or days. If so, the City Council shall declare the time and place of tabulation, which shall be conducted in a place where interested members of the public may observe the tabulation, and the City Council shall declare the time at which the meeting shall be resumed to receive and act on the report of the City Clerk.