



# ADOPTED BIENNIAL OPERATING AND CAPITAL BUDGET

JULY 1, 2019 - JUNE 30, 2020 JULY 1, 2020 - JUNE 30, 2021











CENTRAL MARIN SANITATION AGENCY

### CENTRAL MARIN SANITATION AGENCY ADOPTED BIENNIAL BUDGET

FY20: JULY 1, 2019 – JUNE 30, 2020 FY21: JULY 1, 2020 – JUNE 30, 2021

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## Central Marin Sanitation Agency Budget Acknowledgements

### **San Rafael Sanitation District**

Dean DiGiovanni, Chair, appointed, May 2017

Maribeth Bushey, Commissioner, appointed December 2013

Katie Rice, Alternate, appointed February 2017

Mark Solomon, Alternate, December 2018

Alan Zahradnik, Alternate, appointed December 2018

### **Ross Valley Sanitary District**

Michael Boorstein, Vice Chair, appointed July 2014
Doug Kelly, Commissioner, appointed July 2016
Thomas Gaffney, First Alternate, appointed July 2014
Pamela Meigs, Secondary Alternate, appointed July 2014
Mary Sylla, Secondary Alternate, appointed July 2012

### **Sanitary District No. 2**

Eli Beckman, Secretary, appointed December 2018 Sloan Bailey, Alternate, appointed July 2017

### City of Larkspur

Dan Hillmer, Alternate Commissioner, appointed October 2010

### **Executive Team**

Jason R. Dow, P.E., General Manager Loren Chris Finton, Treatment Plant Manager Kenneth Spray, CPA, Administrative Services Manager Peter Kistenmacher, P.E., Technical Services Manager

### Finance Team

Heidi Lang, Financial Analyst
Ahn Ta, Personnel & Accounting Technician
Kate Brouillet, Administrative Assistant

www.cmsa.us/finance



GOVERNMENT FINANCE OFFICERS ASSOCIATION

## Distinguished Budget Presentation Award

PRESENTED TO

### Central Marin Sanitation Agency California

For the Fiscal Year Beginning

July 1, 2018

Christopher P. Morrill

**Executive Director** 



Jason R. Dow P.E. General Manager

1301 Andersen Drive, San Rafael, CA 94901-5339

Phone (415) 459-1455

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### Message from the General Manager

On behalf of the Board of Commissioners and staff of the Central Marin Sanitation Agency (CMSA), I am pleased to present the Agency's FY20 & FY21 budget. This budget serves as the financial plan for FY20 & FY21, and details the resource requirements and costs associated with providing safe, effective, and environmentally sound wastewater services to approximately 104,500 residents, businesses, and institutions in Central Marin County. All the financial documents referenced in this document are available online at www.cmsa.us/finance.

This is the Agency's ninth comprehensive budget using Government Finance Officers Association (GFOA) presentation guidelines. Our goal is to prepare high quality budgets and financial documents that are readily accessible and easily understandable to CMSA's Joint Powers Authority (JPA) members and ratepayers, customers, stakeholders, regulators, and other interested parties.

### Achieving Outstanding Performance Past, Present, and into the Future

Since 1985, CMSA has operated a regional wastewater treatment facility that receives, cleans, and discharges wastewater, and beneficially reuses biosolids that are collected from households and businesses within the Central Marin County, California service area. CMSA strives for, and will continue to maintain or exceed, high industry standards in all aspects of its business and operations. The Agency's high performance has been recognized by national, state, and regional industry groups in key areas:

- Achieved compliance with the Environmental Protection Agency's National Pollutant Discharge Elimination System (NPDES) permit requirements for the calendar year 2018.
- Received recognition from the GFOA for Excellence in Financial Reporting for the Agency's Comprehensive Annual Financial Report (seventeen consecutive years), Outstanding Achievement in Popular Annual Financial Reporting (nine consecutive years) and the Distinguished Budget Presentation Award (eight consecutive years).
- Garnered state-level recognition of first place from the California Water Environment Association (CWEA) for Engineering Achievement award for the CMSA Power Delivery Program.
- Recognized by the regional CWEA Redwood Empire Section for Engineering Achievement of the Year, Community Engagement and Outreach Project of the Year, as well as recognizing four Agency employees for exceptional performance in their respective professions.

### Major Agency Objectives for FY20 & FY21

- Exceed all NPDES permit requirements for both fiscal years.
- Explore opportunities for CMSA Laboratory regional resource development.
- Increase the Agency's energy efficiency through implementation of the Power Monitoring Program.
- Operate the treatment facilities to minimize odors and public complaints.
- New financial system implementation.
- Consistency of asset management and inventory system with new financial system
- Implement the Agency's upcoming business plan for FY20 & FY21.
- Maintain or increase community engagement on the Agency's Facebook page.
- Maintain a safe work environment and promote a culture of safety as measured by no incidents of employee lost time injuries.
- Maintain a high level of service to customers in our service area and other clients outside the service area who contract for Agency services.
- Upgrade and replace capital assets for reliability and long-term facility operations, to minimize costs to our customers.

### FY20 & FY21 Budgets

The Agency is committed to developing fiscally responsible and sustainable biennial budgets, and planning for the future through developing 10-Year Capital Improvement Programs (CIP) and Financial Forecasts with each biennial budget.

The FY20 Budget includes an expected operating surplus of approximately \$558,000 and \$759,000 for FY21. The budget includes an overall operating revenue increase of 6.4% for FY20 and 5% for FY21, and an overall expenditure increase of 6.3% for FY20 and 3.7% for FY21. Debt service revenues total nearly \$5.0 million for each of FY20 & FY21, of which approximately \$992,000 comprises debt service coverage used for CIP funding for FY20 and \$989,000 for FY21. The Agency plans to spend approximately \$3.9M on 37 capital improvement projects for FY20 and approximately \$8.5M for 31 projects for FY21 using dedicated capital funding sources accumulated in the restricted capital reserve accounts and amounts from unrestricted capital reserve accounts to balance. The Agency currently plans to issue additional debt in FY21 to fund the replacement and upgrades of significant capital assets, as well as to increase the reliability of its power delivery system. Detailed discussions of the FY20 & FY21 Budget, the Capital

Improvement Program, and the 10-Year Financial Forecast can be found in Sections 7, 8, and 9, respectively.

The main features of the FY20 & FY21 Budget are:

- Total Operating Revenues of approximately \$13.1M for FY20 and \$13.8M for FY21, and dedicated capital related fees in the amount of approximately \$2M for FY20 and \$2.3M for FY21 that consist of the capital fee, the debt service coverage fee, and capacity charges.
- Application of a 36-month wastewater flow and strength methodology for the allocation of the regional sewer service charges to the JPA member agencies. The allocation is based on the JPA member's proportionate share of the 13,638 million gallons of wastewater treated by CMSA during the April 1, 2016 to March 31, 2019 period, along with 28.8 million pounds of Biological Oxygen Demand (BOD) and 36.6 million pounds of Total Suspended Solids (TSS) during the April 1, 2016 to March 31, 2019 period. The FY20 regional sewer service and capital charges CMSA will receive from its JPA member agencies is approximately \$581K more than FY19, and FY21 is approximately \$616K more than FY20 as scheduled in the Agency's current Five-Year Revenue Program.
- The Agency expects to receive approximately \$2.1M in revenues from other sources for FY20 and \$2.4M for FY21. The single largest source of these other revenues is for contracted services with the state of California for providing wastewater and pump station services to San Quentin State Prison.
- Debt Service of \$4.96 million, or \$95.29 per Equivalent Dwelling Units (EDU), in the combined service area.
- Total Operating Expenditures of approximately \$12.5 million, an overall increase of 6.3% from FY19. The main changes to the FY20 budget are due to scheduled salary increases of 3%, increases in chemicals and fuels of 14.5%, increases in utilities of 53.1%, and increases in insurance of 53.3%. For FY21, the main changes are due to scheduled salary increases of 4% and benefit increases of 9% due mainly to an uptick in the annual pension UAL cost.

### Making Significant Capital Investments in the Agency's Infrastructure

The treatment and disposal of wastewater and reuse of its by-products is a highly regulated enterprise that requires significant capital infrastructure. CMSA operates an around-the-clock wastewater facility, and the various fixed assets and equipment used in the treatment processes are subjected to heavy usage, sometimes under a challenging operating environment. Capital assets are used to move large volumes of wastewater through the treatment facilities and are subjected to constant contact with wastewater and various chemicals used in the treatment processes. Agency staff monitors new technologies and operational approaches, and evaluates those that may improve the treatment process, save

energy, reduce chemical usage, minimize greenhouse gas emissions, and meet changing regulatory requirements. The maintenance, replacement, and addition of capital assets are an essential part of the Agency's CIP and Budget.

Budgeted capital improvements for FY20 amount to approximately \$3.9 million and for FY21 \$8.5 million for priority projects that include a new cogeneration system, the rebuild of the existing cogeneration engine that recently experienced a catastrophic failure event, replacement of blowers and associated diffusers for process tank maintenance, and secondary clarifier rehabilitation.

The total cost of the planned CIP over the next ten years is approximately \$55 million. The 10-year CIP focuses on replacing and rehabilitating aging infrastructure and assets, implementing new projects to reduce energy use and greenhouse gas emissions, meeting regulatory objectives, and increasing energy self-sufficiency. CIP funding sources are from ongoing capital-related service charges, debt coverage charges, capacity fees, and capital reserves. By the end of FY20 the Agency will have an estimated \$5.9M in capital reserves and for FY21 will have an estimated \$6.5M in capital reserves to finance projects of the 10-Year CIP.

### **Sustainable Budgeting for the Future**

The Agency has pursued a number of budget initiatives over the past few years to achieve long-term budgetary sustainability and financial stability. One such initiative was a methodology change for the allocation of sewer service charges to JPA members resulting in equitable allocation based upon their respective wastewater flow and strength. Another initiative was to adopt a Five-Year Revenue Plan to provide JPA members ample time to incorporate Agency revenue requirements into respective financial plans and rate increase processes. The Agency fixed its debt service cost allocation to the JPA members based upon their 10-year average dwelling unit counts to smooth annual fluctuations. CMSA locked-in a five-year, \$8.7 million contract with the State of California to provide wastewater services to San Quentin Prison. Lastly, to smooth potential rate increases, the Agency is anticipating debt issues in each of FY21 and FY23 to finance major capital improvements.

On the expense reduction side, the Agency previously retired \$1.5 million in pension obligations by paying off its CalPERS side fund that resulted in budget savings of approximately \$300,000 per year for seven years. The Agency's most recent labor negotiations with its two employee groups resulted in a six-year agreement with employee cost-sharing for their pension contributions to CalPERS. The Agency took advantage of historically low interest rates to advance refund debt to defease and retire original issue debt from 2006. This transaction resulted in total savings of \$15 million to our customers over the period from FY16 to FY32.

The focus for the next two years will be on starting up a new, more efficient cogeneration system, delivering renewable power to our local community that is generated by the cogeneration system, to explore opportunities for CMSA Laboratory regional resource

development, to perform a digester pilot study to explore expanding our organic waste receiving program, and to implement a new financial software system.

### Our People Make Us a High-Performing Agency

CMSA is recognized as a high performance wastewater utility within Marin County and the San Francisco Bay Area, and we are sought out by local agencies to provide various wastewater and environmental services. The Agency continues to be recognized by state and national organizations in the areas of permit compliance, facility operations, safety, and financial reporting. I am privileged to work alongside 43 talented, experienced, and dedicated professionals.

On behalf of all the employees, I would like to express our thanks and appreciation to the CMSA Board of Commissioners for supporting the Agency's mission, vision, and goals and in securing the necessary resources to enable us to achieve a recognized level of high performance in safeguarding public health and the environment.

We hope that the biennial budget for FY20 & FY21 will provide the reader with a thorough understanding of the sources and uses of Agency resources. We welcome your comments, feedback, and suggestions for improving future budget publications.

Respectfully,

Jason R. Dow, P.E. General Manager

### SECTION 1. ORGANIZATION

### **Formation History and Organization**

Faced with wastewater collection and treatment challenges unique to Central Marin County and the need to meet the 1972 Federal Clean Water Act and subsequent State Water Code requirements, Ross Valley Sanitary District (RVSD), Sanitary District No. 2 (SD #2) of Marin County, the City of Larkspur (LARK), and the San Rafael Sanitation District (SRSD) united in 1979 to form a joint powers authority (JPA) and created the Central Marin Sanitation Agency (CMSA). San Quentin State Prison (SQSP), which represents the largest single customer of wastewater treatment services in the combined service area, opted not to join the JPA. The treatment facilities were constructed at a cost of \$84 million and were funded by federal (75%) and state (12.5%) clean water grants and local contributions (12.5%) from the four local wastewater agencies and SQSP. The CMSA wastewater treatment facility, the largest in Marin County, became operational in January 1985.

CMSA's governing body is a six-member Board of Commissioners (Board), appointed by the JPA members. Each JPA member determines the term for its appointed representative(s). SRSD and RVSD each have two members on the Board, while LARK and SD #2 each have one.

The Board sets policy and adopts the biennial budget for CMSA, and appoints the General Manager and Treasurer/Controller. The General Manager is the chief executive officer and the Treasurer/Controller is responsible for all financial operations.

### Agency Officials as of June 30, 2019

### **Board of Commissioners (year appointed):**

Dean DiGiovanni, Chair, San Rafael Sanitation District (May 2017)

Maribeth Bushey, Commissioner, San Rafael Sanitation District (December 2013)

Katie Rice, Alternate, San Rafael Sanitation District (February 2017)

Marc Solomon, Alternate, San Rafael Sanitiation District (December 2018)

Alan Zahradnik, Alternate, San Rafael Sanitation District (December 2018)

Michael Boorstein, Vice Chair, Ross Valley Sanitary District (July 2014)

Doug Kelly, Commissioner, Ross Valley Sanitary District (July 2016)

Thomas Gaffney, First Alternate, Ross Valley Sanitary District (July 2014)

Pamela Meigs, Secondary Alternate, Ross Valley Sanitary District (July 2014)

Mary Sylla, Secondary Alternate, Ross Valley Sanitary District (July 2012)

Eli Beckman, Secretary, Sanitary District No. 2 (December 2018)

Sloan Bailey, Alternate, Sanitary District No. 2 (July 2017)

Dan Hillmer, Alternate, City of Larkspur (October 2010)

### Agency Managers (tenure):

Jason R. Dow, P.E., General Manager (employee since 1993, General Manager since 2002)

Loren Chris Finton, Treatment Plant Manager (employee since 1997, Manager since 2010)

Kenneth Spray, CPA, Administrative Services Manager (Manager since 2017)

Peter Kistenmacher, P.E., Technical Services Manager (Manager since 2018)

### **Employees, Service Achievements, and Recognitions**

The authorized staffing level for CMSA is 44 full-time positions, including a safety professional position whose salary and benefit costs are shared with another wastewater agency in Marin County. Characteristics of the workforce:

- 44 authorized positions
- Average age 44.6 years old
- Average length of service is 6.6 years
- o 9 employees with over 10 years of service
- 23.6% of the current employees meet the minimum requirements for retirement benefits from the California Public Employees Retirement System

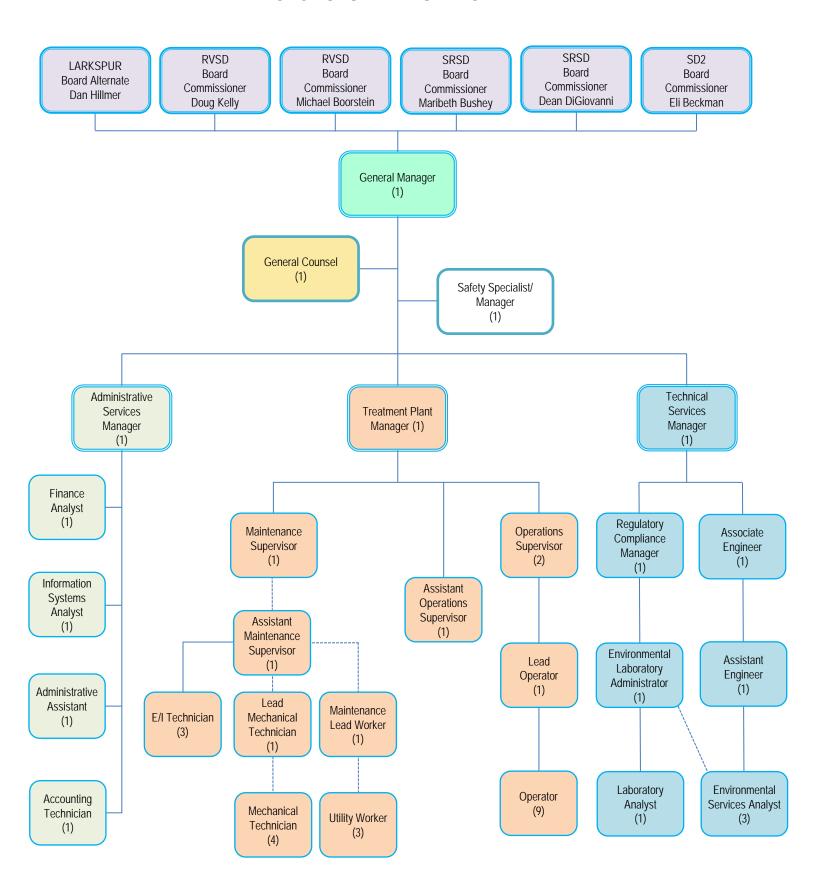
The exceptional dedication, experience, and caliber of the workforce are reflected in the service achievements and recognitions that have been received by the Agency over the years. Below is a summary of the significant accomplishments and the most recent industry awards that have accompanied these accolades.

- Record of Regulatory Compliance: Recognition by the National Association of Clean Water Agencies (NACWA) with the Silver Peak Performance Award (2017). The award recognizes the achievement of obtaining compliance with the National Pollutant Discharge Elimination System (NPDES) permit requirements over the calendar year, with less than five violations. NACWA annually recognizes excellent performance at wastewater utilities through its Peak Performance Awards program. For 2018, CMSA applied to be recognized by NACWA with the Gold Peak Performance Award. Award notification of applications will be provided during NACWA's Utility Leadership Conference, July 16-19, 2019, in Minneapolis, MN.
- Certificate of Achievement for Excellence in Financial Reporting: Recognition from the Government Finance Officers Association (GFOA) for the Agency's FY17 Comprehensive Annual Financial Report (CAFR). The Certificate of Achievement is the highest form of recognition in governmental accounting and financial reporting and its attainment represents a significant accomplishment by a governmental entity. This marked the sixteenth consecutive year that the Agency's CAFR had met the high standards of the GFOA for governmental accounting and financial reporting. The Agency expects to receive its seventeenth CAFR by June 30th. The Agency continually strives to comply with GFOA guidelines and recommendations. All its financial reports—from the Biennial Budget, audited Annual Financial Statements, and CAFR reports to the monthly Treasurer's, Investment and Quarterly Budget Status Reports—are transparent representations of the Agency's financial operations. Each of aforementioned reports are presented to the Board for review and acceptance and are posted on the Agency's website <a href="https://www.cmsa.us/finance">www.cmsa.us/finance</a>.
- Award for Outstanding Achievement in Popular Annual Financial Reporting: Recognition
  from the GFOA for the Agency's FY17 Popular Annual Financial Report (PAFR). The PAFR
  Award is a prestigious national award recognizing conformance with the highest standards
  for preparation of state and local government popular reports. The PAFR is specifically
  designed to be readily accessible and easily understandable to the general public and other
  interested parties who do not have a background in public finance. This marked the eighth

consecutive year that the Agency's PAFR had met the high standards of the GFOA for governmental accounting and financial reporting. The Agency expects to receive its ninth PAFR by June 30<sup>th</sup>.

- Distinguished Budget Presentation Award: Recognition from the GFOA for the Agency's FY19 Adopted Budget. The award is the highest form of recognition in governmental budgeting and its attainment represents a significant accomplishment by a governmental entity. The GFOA encourages public entities to prepare budget documents that fully explain the agency's business, are transparent, and are designed to be readily accessible to the general public and other interested parties. The Budget Award deems the Agency's Budget to be proficient as a policy document, financial plan, operational guide, and communication device for the Agency's business. This marked the eighth consecutive year that the Agency's budget has met the high standards of the GFOA for budget presentation.
- State-level Awards from the California Water Environment Association (CWEA): For 2018, recipients of Regional CWEA Awards (below) and the Agency were recognized by CWEA at the state level for the following achievements:
  - First Place Engineering and Research Engineering Achievement award for the CMSA Power Delivery Program
  - Third Place Mary Jo Ramey for Community Engagement and Outreach Person of the Year
  - Third Place Community Engagement and Outreach: Project of the Year Large award for Wastewater Treatment Agencies of Marin's Cooperative Public Education Program
- Redwood Empire Section CWEA Awards: For 2018, Redwood Empire Section of the California Water Environment Association (CWEA) recognized the Agency for outstanding work in the disciplines listed below.
  - o Ryan Word for Operator of the Year
  - Jon Farr for Electrical/Instrumentation Person of the Year
  - Jacob Dellinger for Mechanical Technician of the Year
  - Jose Gutierrez for P3S Person of the Year
  - Mary Jo Ramey for Community Engagement and Outreach Person of the Year
  - o Engineering Achievement of the Year Power Delivery Program
  - Amy Hwang for Outstanding Young Professional of the Year
  - Community Engagement & Outreach: Project of the Year for Wastewater Treatment Agencies of Marin's Cooperative Public Education Program

### **CMSA ORGANIZATIONAL CHART**



44 Full Time Equivalent Employees (FTE) July 1, 2019

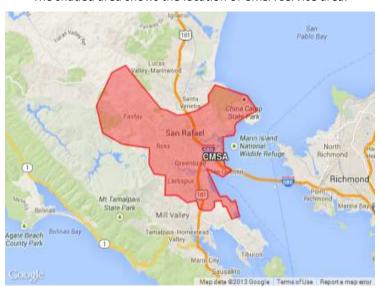
CMSA Authorized Staff Positions	FY18	FY19	FY20 & FY21
ADMINISTRATION			
General Manager	1	1	1
Administrative Assistant	1	1	1
Treatment Plant Manager	1	1	1
Administrative Services Manager	1	1	1
Financial Analyst	1	1	1
Personnel and Accounting Technician	1	1	1
Information Systems Analyst	1	1	1
Total Administration	7	7	7
COOPERATIVE AGREEMENTS			
Safety Specialist/Manager (Replaced Health and Safety Manager)	-	1	1
Health and Safety Manager	1	-	-
Total Cooperative Agreements	1	1	1
MAINTENANCE	_	_	_
Maintenance Supervisor	1	1	1
Assistant Maintenance Supervisor	1	1	1
Maintenance Lead	1	1	1
Maintenance Repair (Eliminated Maintenance Repair position replaced with	1	-	-
Mechanical Technician)			
Mechanical Technician (I-III)	4	5	5
Utility Worker	3	3	3
Electrical/Instrumentation Assistant Maintenance Supervisor	1	-	-
Electrical/Instrumentation Tech (I-III)	2	3	3
Total Maintenance	14	14	14
OPERATIONS			
Operations Supervisor	2	2	1
Assistant Operations Supervisor (new position: promoted Lead Operator)	-	1	1
Lead Operator	2	1	1
Operator (Trainee, I-III)	9	9	10
Total Operations	13	13	13
TECHNICAL SERVICES			
Technical Services Manager	1	1	1
Associate Engineer (Promotion for obtaining Professional Engineer license)	-	-	1
Assistant Engineer	2	2	1
Regulatory Compliance Manager*	-	-	1
Laboratory Director	1	1	-
Environmental Laboratory Administrator	1	1	1
Laboratory Analyst (New FY19)	-	1	1
Environmental Services Analyst (I-II)	3	3	3
<b>Total Technical Services</b>	8	9	9
TOTAL AUTHORIZED STAFFED POSITIONS	43	44	44

<sup>\*</sup>New Regulatory Compliance Manager position was approved by the Board in December 2018 to replace the Laboratory Director position

### SECTION 2. LOCATION AND SERVICE AREA, LOCAL DEMOGRAPHICS AND ECONOMY

### **Location and Service Area**

CMSA is located in San Rafael, California and is adjacent to the San Rafael side of the Richmond-San Rafael Bridge. The shaded area on the below map highlights the CMSA service area. It measures approximately 43.5 square miles, and encompasses the residents, businesses, and institutions within the City of Larkspur, the Towns of Corte Madera, Fairfax, Ross, and San Anselmo, portions of the City of San Rafael, the unincorporated areas of Ross Valley and San Quentin Village, and San Quentin State Prison (SQSP). The population served within this area is approximately 104,500.



The shaded area shows the location of CMSA service area.

### **Local Demographics and Economy**

Marin County has a total population 260,651 with a growth rate of less than one percent annually. The county's residents continue to have the highest California per capita income of \$66,748, and a median per household income of \$104,703.

### Population of Cities, Towns, and Correctional Facilities in the CMSA Service Area

City of San Rafael (Approximately 2/3 of the city's population)	39,500
City of Larkspur	12,382
Town of Corte Madera	9,858
Town of San Anselmo	12,599
Town of Fairfax	7,598
Town of Ross	2,467
San Quentin State Prison	4,004
Unincorporated CMSA Service Area (San Quentin Village, Greenbrae, Kentfield, Sleepy Hollow, Tiburon Peninsula)	16,092

Sources: United States Census Bureau State (2013-2017) and County Quick Facts (2010 Census), Bureau of Economic Analysis; California Department of Finance Demographic Research Census 2010 and Population Factors; Bureau of Labor Statistics

Marin's unemployment rate of 2.1% remains among the lowest in California and remains below the national level of 3.6% as of April 2019. Six of the top ten employers in the CMSA service area as measured by number of employees are governmental entities. The majority of the remaining businesses employ between 1-250 employees, and approximately 90% of these business enterprises include goods and services occupations.

### Ten Largest Employers and Number of Employees in CMSA Service Area

BioMarin	1,700
San Quentin State Prison	1,600
Marin General Hospital	1,650
Dominican University	1,000
Golden Gate Transit	820
Restoration Hardware	500
City of San Rafael	404
College of Marin	360
San Rafael City Schools	355
Kentfield Rehabilitation & Hospital	345

The local real estate and housing market continued to improve during FY19. The annual mean/median home sale price for a home in Marin was \$1,446,014/\$1,150,000 as reported by the Marin County assessor's office website for the calendar year ending December 2018, compared to \$1,338,367/\$1,000,000 reported at end of December 2017. The upward trend declined somewhat through April 2019 where the county reported at April 30th a mean/median sales price of \$1,404,757/\$1,131,250 sales data statistic for a mean home living area of 2,004 square feet.

Source: www.marincounty.org/depts/ar/divisions/assessor/sales

### Equivalent Dwelling Units (EDU's)

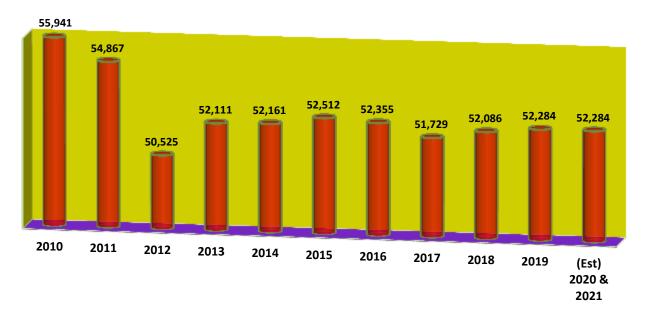
In past fiscal years, EDU's had been used to determine the number of households served, as well as the sewer service charge (SSC) to set the Agency's annual service fee. An EDU refers to a unit of wastewater discharge, and is the estimated volume and strength generated by an average, single-family residence. Each JPA member agency is responsible for determining the number of EDU counts in its jurisdiction and works with the County Tax Collector to add the SSC to the property tax bill, which is the method used to collect SSC payments from its customers. The annual SSC EDU rate is established each July 1 in the CMSA adopted budget. The Agency's EDU Rate is based on the total revenue budget for SSC, capital fee and debt service charged to members divided by the number of reported EDU. The EDU rate is used to determine fee schedules for waste haulers and industrial monitoring. Additional information can be found by referring to CMSA's Fee Schedule Ordinance available on the <a href="https://www.cmsa.us">www.cmsa.us</a> website.

The Agency utilizes two different units of measure for allocating sanitary sewer charges (SSC) and debt service charges to the JPA member agencies. The allocation of SSC is based on the strength and volume of wastewater discharged from each satellite collection system into CMSA for treatment, as indicated by measurements taken by CMSA the prior wet weather period (the 36-month period April 1 to March 31 for strength and volume).

The allocation of debt service is pursuant to an October 2016 Debt Service Payment Agreement between CMSA and the member agencies, as well as the Master Indenture between CMSA and the Bond Trustee. The proportionate allocation of the debt service payment and coverage to each member is based upon average EDU counts over a 10-year period from FY07 to FY16 reported for the JPA service area. This allocation method smooths out unit count fluctuations and promotes stable/predictable debt service costs to members.

The chart and table below displays the total EDU count within the CMSA service area for the last ten years, and estimates FY20 & FY21 to be the same as FY19. The number of residential EDUs tends to be stable in the Central Marin service area because there is generally very little commercial and residential development in central Marin County. The fluctuations from year-to-year are generally due to new sewer connections for new construction and variable water usage for commercial properties. There were three consecutive years (FY10-FY12) of decreases in the total number of reported EDUs, with a significant decrease in FY12 attributable to a 3,962 drop in EDU reported by SQSP. Effective FY13, CMSA entered into a service contract with the State of California for wastewater service for SQSP, and is now responsible for determining the prison's EDU count. The increased EDU count in FY13 is the result of new construction for single family dwellings and a multiunit residential development in the service area. Since FY13 there has been little development. Additionally, increased drought-related water conservation efforts and reduced water consumption by commercial users have had a stabilizing effect on the EDU count.

### **EDU Totals for CMSA Service Area Fiscal Year End June 30th**

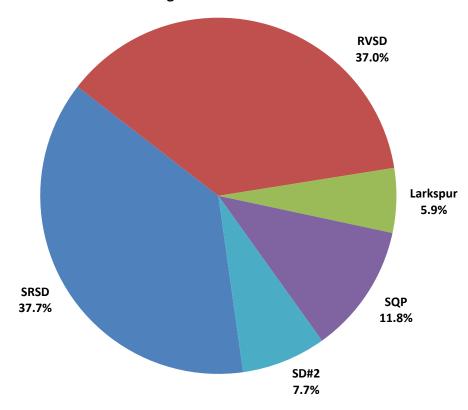


EDU Count by JPA Member Agency and San Quentin State Prison FY10 to FY21

				San		
	San Rafael	<b>Ross Valley</b>		Quentin		
	Sanitation	Sanitary	City of	State	Sanitary	
Fiscal Year	District	District	Larkspur	Prison	District #2	<b>Total EDU</b>
Actual	(SRSD)	(RVSD)	(RVSD)	(SQSP)	(SD #2)	Count
(Est) 2020						
& 2021	19,716	19,345	3,066	4,005	6,152	52,284
2019	19,716	19,345	3,066	4,005	6,152	52,284
2018	19,565	19,448	3,060	4,005	6,008	52,086
2017	19,332	19,298	3,039	4,005	6,055	51,729
2016	19,555	19,700	3,019	4,005	6,076	52,355
2015	19,643	19,666	2,982	4,005	6,216	52,512
2014	19,703	19,498	2,949	4,005	6,006	52,161
2013	19,482	19,511	2,997	4,005	6,116	52,111
2012	19,409	18,835	3,079	3,247	5,955	50,525
2011	19,401	19,261	3,021	7,209	5,975	54,867
2010	19,575	19,709	3,050	7,529	6,078	55,941

The pie chart below shows the EDU count reported by each member agency as a percentage of the total number EDUs in the service area.

EDU's by Member Agencies and San Quentin Prison as a Percentage of Total EDU's for FY20 & FY21



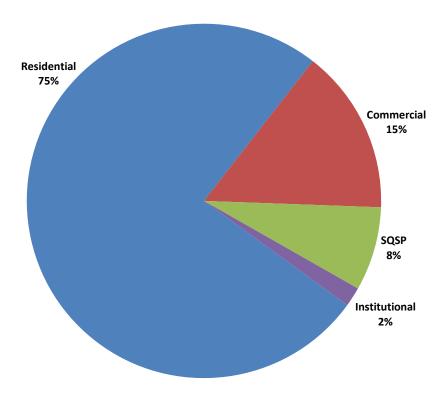
The table and chart below show the EDU count presented by connection type reported by participating JPA members. There are three types of connections: residential, commercial, and institutional. Institutional connections represent property tax exempt governmental entities (federal, state, county, city, and special district) that are billed separately because these institutions are not on the Marin County property tax rolls. EDU counts for these institutions are not included in county property tax reports.

FY20 & FY21 Initial EDU Count by Connection Types

	San Rafael Sanitation District (SRSD)	Ross Valley Sanitary District (RVSD)	City of Larkspur (RVSD)	San Quentin State Prison (SQSP)	Sanitary District #2 (SD #2)	Total by Type
Residential	15,733	16,488	2,624	-	4,645	39,490
Commercial	3,800	2,349	398	-	1,319	7,865
Institutional	183	508	44	4,005	188	4,929
Total	19,716	19,345	3,066	4,005	6,152	52,284

Source: Property Tax Reports, County of Marin

FY20 & FY21 EDU by Connection Type and SQP as a Percentage of Total EDUs



### SECTION 3. FACILITIES, WASTEWATER TREATMENT PROCESS, WORKLOAD, AND PERFORMANCE INDICATORS

### **Facilities**

The CMSA wastewater treatment plant, pictured below, is a vital component of the central Marin wastewater management system. This extensive system includes over 70 pump stations, more than 450 miles of sewer pipelines located throughout the service area, as well as two major interceptors to transport the wastewater to the treatment plant, and a two-mile long outfall through which the treated wastewater is discharged into the San Francisco Bay. In full compliance with federal, state, and regional water pollution control laws and regulations, CMSA processes and disposes an average of 8.5 million gallons of wastewater a day during dry weather flows and 13 million gallons of wastewater per day during wet weather flows, and has treated in excess of 120 million gallons per day during peak rainfall periods.



(Clockwise upper left to right): Effluent Storage Pond, Maintenance Annex (red roof behind the pond), Chlorination/Dechlorination Building, Chlorine Contact Tanks, Effluent Pump Station, Secondary Clarifiers, Organic Waste Receiving Facility, Solids Handling Building, Digesters and Digester Building, Aeration Tanks, Biotowers, Primary Clarifiers and Blending Channel, and Headworks. The two orange-roofed buildings in the lower left are the Maintenance Building (top) and the Administration Building (bottom).

### **Wastewater Treatment Process**

The diagram on the following page depicts the wastewater treatment process.



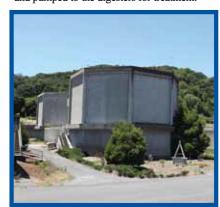
### A Headworks

The wastewater influent flows through mechanical screens where large material is removed. The wastewater then enters the aerated grit chambers where grit, sand, gravel, and granular materials are removed, rinsed, and stored for future hauling to a landfill.



### **Primary Clarifiers**

The flow of wastewater slows as it moves through the long narrow clarification tanks. At this stage, grease rises to the surface while heavier materials settle to the bottom of the tanks. Ferric chloride and polymer are sometimes added during high storm flows to increase removal of the solids. These solids are then scraped off the top and bottom of the tanks and pumped to the digesters for treatment.

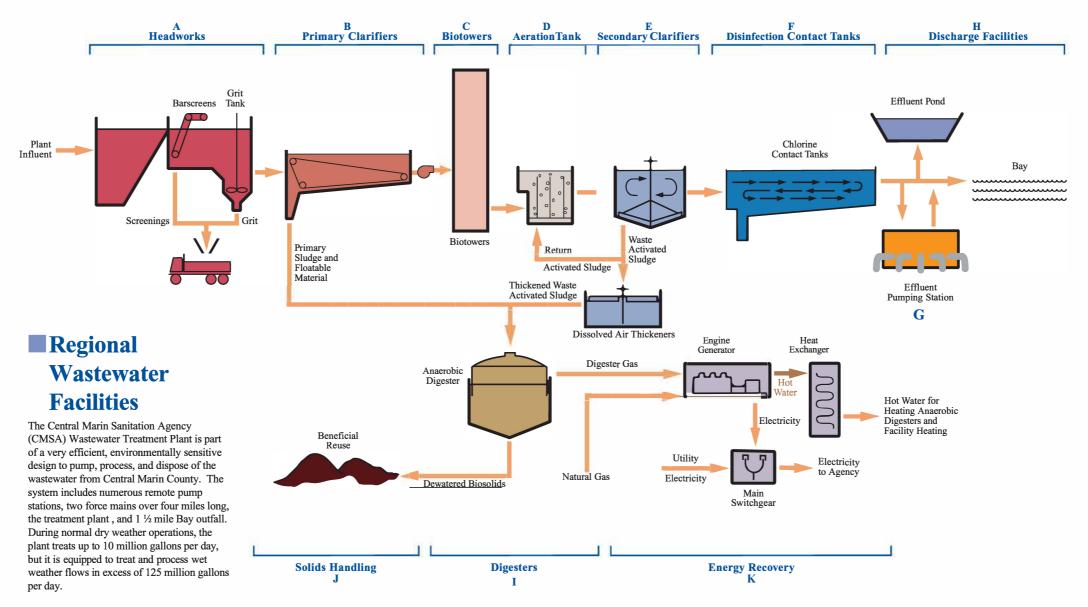


### **C** Biotowers

The biotowers are the first stage of dual biological treatment. During this stage, water leaving the primary clarifiers is pumped to the top of tall biological towers where it trickles down through fixed media. When the water comes in contact with the air, the oxygen allows bacteria to grow on the media and consume some of the dissolved organic material.



When wastewater arrives at the CMSA Treatment Plant, a complex treatment process begins:



### **Process Schematic**



### D **Aeration Tanks**

The activated sludge process is the second stage of biological treatment. Tiny air bubbles released from the bottom of the tank provide air for microorganisms to consume organic matter. The organisms form a floc which enables them to settle in the secondary clarifiers.



### **E** Secondary Clarifiers

The secondary clarifiers settle out the activated sludge from the aeration tanks. Some of this secondary sludge is reused in the dual biological process for continual reseeding, and the rest is sent to the digesters, where it is treated and used in the production of biogas.



### F Disinfectant Contact Tanks

A computer-controlled dose of sodium hypochlorite is mixed with the treated effluent to kill pathogens. To complete the disinfection treatment process, a sodium bisulfite solution is added to the treated final effluent to neutralize any residual chlorine to protect marine life prior to discharging it to the Bay.



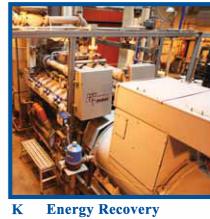
### **G** Effluent Pump Station

The Effluent Pump Station will discharge treated effluent even when high plant flows and high tides coincide. It's fully automated and can start, stop and control pumps as needed during wet weather. There are five pumps – four primary pumps and one back-up pump. The high efficiency diesel pump engines passed a stringent Air Board review before they were permitted for use.

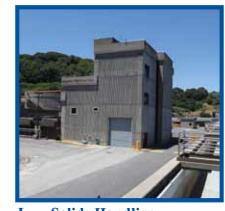


### H Discharge Facilities

Some of the treated wastewater is recycled and used for washdown and irrigation at the plant site. The remaining effluent is carried through an 84 inch pipeline more than a mile out into San Francisco Bay where it is discharged through 176 diffusers located 30 feet below the Bay surface.



The biogas is produced in the digesters is used to heat plant process water and to generate electricity which supplies up to 95% of the Agency's power needs. When digester biogas is not available, the engine generator switches to natural gas.



### Solids Handling

The digested biosolids are pumped to centrifuges where excess water is removed. The dewatered biosolids are hauled to a sanitary landfill for use as alternate daily cover, or utilized in a reuse process such as compost or land applied for agricultural use.



### **Digesters**

Solid materials (sludge and floatable material) removed in the primary and secondary clarifiers are heated so anaerobic bacteria can consume the organic matter. The digestion process reduces pathogens and odors and produces biogas. The treated product is called biosolids which are beneficially reused.

### Key Workload and Performance Indicators for FY19 and FY20 & FY21 Projections

The following section summarizes the Agency's key workload and performance indicators for the July 1, 2018 - June 30, 2019 fiscal period. The data presented is compiled from the *Performance Metric Report and NPDES, Process, and Maintenance Report* prepared for the monthly Board meeting agendas. These reports are publicly available in the consent calendar of the Board meeting agenda packets published on the CMSA website (<a href="http://www.cmsa.us/board/agendas-and-minutes">http://www.cmsa.us/board/agendas-and-minutes</a>).

The wastewater treatment plant was designed and built to remove pollutants from influent flows which is accomplished through physical and biological processes. While some of the reported performance metrics can be directly correlated to specific parts of the budget, the majority of the metrics reported below are accomplished through the interconnection of responsibilities amongst the operations, technical services, and maintenance departments that each has a duty to contribute to the successful operations of the wastewater facilities. The end goal of the total operating budget is to produce effluent wastewater that is 100% compliant with the Agency's NPDES permit requirements. The Agency had met all its NPDES permit requirements and did not have any NPDES Permit exceedances in the past twelve consecutive years through 2016. In February 2017, CMSA experienced its first NPDES permit exceedance, which was due to extremely high influent flows related to major winter storms making it essentially impossible to remove 85% of biochemical oxygen demand particulates from the highly diluted flows. In February 2019 CMSA reported one sample monitoring NPDES permit violation during a blending event.

A. Volume of Wastewater Treated (FY20 \$ 12.4M & FY21 \$13.0M Total Operating Expenditures): The Agency received and treated approximately 4,800.6 million gallons of wastewater during FY19. The table below shows the monthly wastewater volume, in million gallons, received as influent flow from each satellite collection entity: SRSD, RVSD, SQSP, SD #2. The total treated flow volume was significantly lower in FY18 due to milder storm events that occurred during the months of October through February. Flows and volume of wastewater treated increased during FY19 with the return of more frequent wet weather events. Future weather patterns are difficult to predict, therefore this statistic is not projected for FY20 & FY21. The total operating budget represents the total cost to treat the total influent flow into the treatment plant and discharging effluent flow into the San Francisco Bay that is in compliance with the Agency's NPDES permit requirements.

		SRSD			RVSD			SQSP			SD #2			TOTA	L
	FY17	FY18	FY19	FY17	FY18	FY19	FY17	FY18	FY19	FY17	FY18	FY19	FY17	FY18	FY19
Jul	89.5	95.2	109.5	113.6	124.3	109.1	11.0	10.1	14.6	25.8	22.8	25.8	239.8	252.4	259.0
Aug	92.4	95.8	111.2	118.2	127.4	117.8	10.4	12.8	14.4	26.1	17.5	26.1	247.2	253.5	269.5
Sep	86.4	95.0	103.8	108.9	133.5	109.7	9.7	14.6	13.7	25.7	9.9	24.7	230.7	253.0	251.9
Oct	114.3	89.4	110.1	141.4	111.2	120.1	10.1	15.2	14.4	33.0	25.4	27.8	298.9	241.1	272.4
Nov	133.2	110.2	126.1	183.6	137.4	152.1	10.3	16.6	15.4	36.6	33.7	33.7	363.7	297.8	327.3
Dec	200.7	92.3	143.0	296.4	130.7	182.9	11.1	15.0	16.9	48.9	27.8	36.2	557.1	265.7	379.0
Jan	338.8	154.5	218.3	524.3	209.0	300.6	15.5	18.9	20.1	74.0	44.6	51.5	952.7	427.1	590.5
Feb	312.5	99.0	303.8	462.8	133.2	433.5	14.1	13.1	21.3	74.1	24.4	65.4	863.5	269.7	824.0
Mar	176.4	214.6	232.6	252.1	297.5	316.9	11.6	19.0	17.2	44.4	54.3	51.4	484.3	585.4	618.1
Apr	162.4	145.5	130.1	230.4	205.4	172.2	11.2	15.5	13.7	39.1	39.2	32.5	443.1	405.6	348.5
May	107.5	102.1	134.0	152.3	138.4	183.8	9.8	12.9	15.1	30.8	28.5	37.1	300.4	281.9	370.0
Jun	95.6	102.2	104.2	126.2	116.3	141.3	9.8	13.9	13.9	27.4	27.1	31.0	259.1	259.5	290.4
Total	1909.7	1395.8	1826.7	2710.2	1864.2	2340.0	134.6	177.6	190.7	485.9	355.2	443.2	5240.5	3792.7	4800.6
% Total Flow	36.4%	36.8%	38.1%	51.7%	49.2%	48.7%	2.6%	4.7%	4.0%	9.3%	9.4%	9.2%	100%	100%	100%

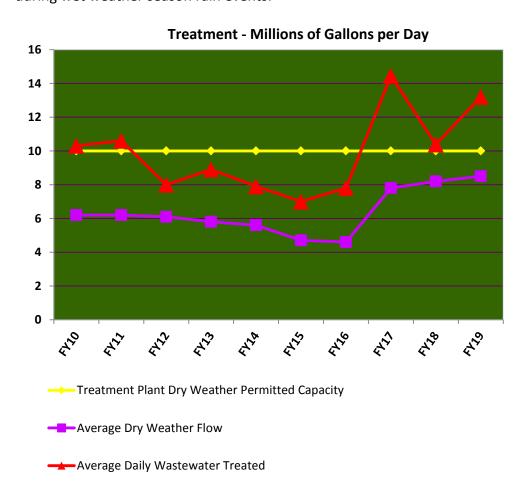
**Average Daily Effluent Flow.** The Agency's permitted dry weather capacity is 10 million gallons per day. Below are the average daily dry weather flow, daily wastewater treated, and annual flows for the past three years.

				Projecte	d Flows
MILLIONS GALLONS PER DAY	FY17	FY18	FY19	FY20*	FY21*
Dry Weather Flow (July-Sept)	7.8	8.2	8.5	8.5	8.5
Wastewater Treated	14.5	10.4	13.2	13.2	13.2
Total Fiscal Year Influent Flow Treated	5,240.5	3,792.7	4,800.6	4,800.6	4,800.6
TOTAL OPERATING BUDGET	\$11.6M	\$11.5M	\$11.8M	\$12.5M	\$13.0M

<sup>\*</sup>FY20 & FY21 have been projected to equal FY19 annual flows

The graph below presents the average volume of wastewater treated and discharged into San Francisco Bay from FY10 through FY19 year-end June 30th.

- The yellow line is the Agency's permitted dry weather flow, which has remained constant through several five-year NPDES permit cycles.
- The purple line shows the average dry weather flow each year during the months of July, August, and September.
- The red line represents the average annual daily wastewater treated and is higher than the purple line because it includes storm water that infiltrates into sewer pipelines during wet weather season rain events.



The increases in the average daily flow are due to higher than normal seasonal rainfalls during the wet weather months, and the sharp declines during FY12, FY14, and FY15 are indicative of dry winters. The decrease in average dry weather flow beginning in FY13 is associated with lower water usage by our customers due to their increased water conservation efforts during the drought that included installation of high-efficiency water fixtures.

The Agency reclaims anywhere from 10-15% of its treated water for irrigating landscaping, cogeneration engine cooling, hosing down and washing tanks and equipment, and diluting chemicals used in the treatment process. Reclaimed water is also used to maintain a wildlife sanctuary habitat for endangered turtles at Remillard Park in the City of Larkspur.

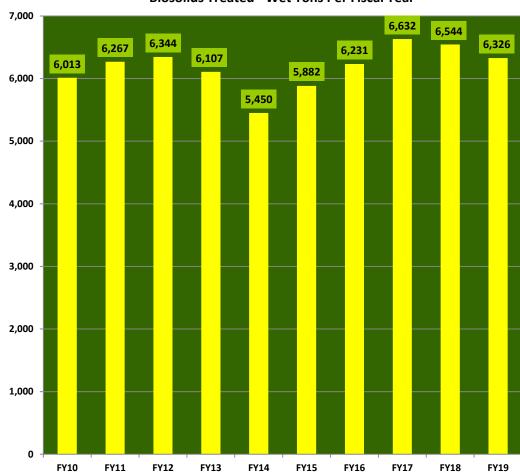
During FY16, the Agency built a recycled water truck filling station. Our member agencies occasionally use the recycled water for sewer flushing within our service area.

B. Biosolids Management Production: Biosolids are renewable by-products of the wastewater treatment process. CMSA beneficially reuses biosolids as alternative daily landfill cover during the wet weather season in Marin County, as fertilizer and soil amendments on agricultural land during the dry weather season in Solano County, and as a feedstock at the Lystek bio-fertilizer production facility. To further diversify biosolids management options, the Agency has partnered with 16 wastewater agencies within the San Francisco Bay Area region to evaluate the feasibility of using biosolids as an alternative energy source or to produce a marketable product. The quantity in wet tons of biosolids reused is the performance measure for this budget.

				Projected Number Tons	
REPORTED WET TONS:	FY17	FY18	FY19	FY20	FY21
Total Biosolids Management Budget*	\$374K	\$388K	\$400K	\$419K	\$435K
Total Biosolids Reuse	6,645	6,544	6,326	6,400	6,400
Landfill Alternative Daily Cover	3,676	3,271	3,357	3,400	3,400
Lystek Bio-fertilizer**	1,306	1,366	1,155	1,200	1,200
Fertilizer/Soil Amendment	1,663	1,907	1,814	1,900	1,900

<sup>\*</sup>Reference: Technical Services Department Biosolids Management Budget

The FY20 & FY21 Total Biosolids Management budget increases are attributed to cost index adjustments in the biosolids hauling and disposal contracts.



**Biosolids Treated - Wet Tons Per Fiscal Year** 

The bar chart above shows the annual volume of biosolids produced. High flows during wet weather can transport solids that had settled in the collection system to the treament plant which increases biosolids production. Capital improvement projects at the treatment plant can also affect biosolids production. For example, the Digester Improvements Project in FY13 required CMSA to operate with only one digester instead of two for several months which decreased biosolids production. The FY14 reduction was due to drought conditions which resulted in more solid material settling in the sewer system pipes and therefore was not transported to the treatment plant.

C. Odor Alerts and Complaints: Odors are routinely generated in the wastewater collection system and in treatment processes. The Agency has implemented a multi-phased approach to manage odor generation that includes: (1) Introduction of a calcium nitrite solution into the collection system to control the production of hydrogen-sulfide by microorganisms; (2) the addition of 50% strength hydrogen peroxide into the wastewater prior to entry into the facility's headworks; and (3) the use of odor control masking agents when treatment processes are removed or placed into service. We routinely perform odor monitoring, and odor alerts are posted on the Agency website (<a href="www.cmsa.us">www.cmsa.us</a>) to inform the public and other interested parties of the potential generation of odors due to process changes, warm weather, and other environmental or operational factors. The performance measure for the Odor Control Budget is the number of alerts issued and the number of complaints received

from people outside the treatment plant. The table below shows the number of posted alerts and public complaints received over the past three years. The Agency's annual goal is zero complaints.

				Projected Alerts	
	FY17	FY18	FY19	FY20	FY21
Total Odor Control Budget*	\$610K	\$534K	\$521K	\$505K	\$518K
Number of Odor Alerts Issued	64	50	41	41+/-	41+/-
Number of Odor Complaints Received	2	3	0	0	0

<sup>\*</sup>Reference: Operations Dept. line item chemical budgets: Nitrate, Hydrogen Peroxide, Odor Control accounts.

**D. Conventional Pollutants Removed:** The Agency's NPDES permit contains specific requirements for the removal of conventional pollutants, wastewater solids and organic material, before the treated water is discharged into the San Francisco Bay. The table below shows the annual amount of conventional pollutants removed. This metric is an example where the operation, technical services, and maintenance department responsibilities and budgets interconnect to produce a desired outcome.

				Projected Removals	
UNIT OF MEASURE: TONS	FY17	FY18	FY19	FY20	FY21
Total Suspended Solids (TSS) Removed	5.937	6.248	5.908	6.000	6.000
Organics (Biological Oxygen Demand – BOD) Removed	5,651	4,413	4,424	5,000	5,000

E. Priority Pollutants Removal: The Agency's NPDES permit requires the removal of mercury and copper, as priority pollutants. The percentage of these pollutants removed from discharge into San Francisco Bay is shown in the table below. The Agency's optimal goal is 100%, but a more realistic and achievable goal is between 85% and 95%. While the Technical Services Pretreatment Sampling budget monitors industrial waste, the Countywide Public Education Program budget supports programs that educate the public on ways they can contribute to the removal of mercury and copper.

				Projected Removal Rate		
MONTHLY AVERAGE	FY17	FY18	FY19	FY20	FY21	
Mercury	96%	97%	96%	96%	96%	
Copper	93%	84%	90%	90%	90%	

F. Biogas and Energy Production: Biogas is produced in the treatment plant's anaerobic digesters. This renewable resource is used as fuel in a cogeneration system that generates electricity to power Agency facilities. The volume of natural gas purchased from outside suppliers is reduced in proportion to the amount of biogas that is generated. The organic waste receiving program that was launched in January 2014 has resulted in increased biogas production, and significant savings are achieved when the system runs nearly 24 hours per day over a period of time. This is reflected in the additional budgeted savings in natural gas purchases in FY18 through FY21. The estimated quantity of biogas and electrical energy produced and the economic value of natural gas savings is shown in the table below.

				Projected I	Production
	FY17	Y17 FY18 FY19		FY20	FY21
Total Natural Gas Budget*	\$80K	\$40K	\$37K	\$40K	\$40K
Biogas – million cubic feet	106	102	91	91	91
Energy Produced - kilowatts	4,781	5,324	3,743	3,743	3,743
Value of Biogas Produced	\$291,022	\$296,147	\$317,879	\$317,879	\$317,879

<sup>\*</sup>Reference: Operations Department line item budget.

**G. Work Orders Completed:** The Agency has over 4,000 assets that include the treatment facilities and systems, equipment, buildings, vehicles, computers, and other assets. These assets need to be proactively maintained and repaired (preventative work), rehabilitated, or replaced as needed (corrective work). The Maintenance and Operations Department's maintenance activities are scheduled and tracked using a computer-based asset management system. The table below shows number of work order hours completed over the past three fiscal years. The number of work orders executed is a key performance measure of workplace productivity for the maintenance and operations departments.

BUDGET	FY17	FY18	FY19	FY20	FY21
Maintenance Department	\$1.88M	\$2.01M	\$1.91M	\$1.99M	\$2.09M
Operations Department	\$3.17M	\$3.15M	\$3.24M	\$3.49M	\$3.45M
TOTAL	\$5.05M	\$5.16M	\$5.15M	\$5.48M	\$5.54M

				Projected Work Order Hours	
COMPLETED WORK ORDERS*	FY17	FY18	FY19	FY20	FY21
Preventative Work Orders - # Hours	5,434	5,575	5,163	5,200	5,200
Corrective Work Orders - # Hours	6,524	5,022	7,297	7,300	7,300
Unplanned Corrective Maintenance –					
# Hours	1,079	901	1,671	1,700	1,700
TOTAL WORK ORDER HOURS	13,037	11,498	14,131	14,200	14,200

<sup>\*</sup>Source: CMSA July-June 2019 Agendas NPDES Permit Compliance and Performance Metric reports <a href="http://www.cmsa.us/board/agendas-and-minutes">http://www.cmsa.us/board/agendas-and-minutes</a>

The Maintenance and Operations budget represents the total cost, including salaries, equipment, tools, chemicals, and utilities expended to execute the work orders.

H. Employee Training: CMSA supports employee development. We strongly believe continued training is important to our employees' professional development and job satisfaction, as well as for the effective functioning of the organization. Training includes mandatory topics such as safety and employment law (diversity, discrimination, harassment and ethics) and job specific educational courses. Methods of training include attendance at seminars and conferences, as well as computer-based webinars. The hours employees spend in training and development sessions is the key performance measure for referenced training accounts below the table.

				Projected Hours		
	FY17	FY18	FY19	FY20	FY21	
Total Meetings/Training Budget	\$85K	\$85K	\$82K	\$89K	\$85K	
Internal Hours	1432	1638	1908	2000	2000	
External Hours	1160	945	1092	1250	1150	

Reference: Department budget accounts for Meetings/Training (6700-010), Conferences (6700-020), Outside Safety Training (6830-017-01)

Water Sample Analyses: The Agency has a certified environmental laboratory where wastewater that enters (influent) and leaves (effluent) the plant is routinely sampled and analyzed for various compounds as required by the Agency's NPDES permit. Samples from numerous treatment processes are also analyzed to ensure that the treatment systems are operating properly. The performance measure for the Permit Testing & Monitoring Budget is the number of tests that are performed to monitor water quality and permit compliance. The chart below shows the number of water sample analyses the laboratory performed, and the projection for FY20 & FY21.

				Projected number Tests/Analyses	
	FY17	FY18	FY19	FY20	FY21
Permit Testing & Monitoring Budget					
(Excludes Pretreatment &					
Underground Tank Testing*	\$147K	\$150K	\$132K	\$126K	\$124K
NPDES Compliance Analyses	2,852	3,874	6,550	8,450	8,450
Process Control Analyses	7,639	8,302	9,137	11,000	11,000
Contract Laboratory Analyses					
(New January 2018)		183	1,046	2,900	2,900
Quality Control Testing	2,154	2,604	2,628	4,500	4,500

<sup>\*</sup>Reference: Technical Services line item budget accounts (6300-000, 6310-030, 6320-010.)

There is significant increase in the reported NPDES compliance and process control analyses from FY18 to FY19. This is related to a change in how analyses are counted. CMSA no longer counts automated readings from field instruments as laboratory samples allowing for a more accurate representation of the analyses that were conducted within the laboratory.

J. Number of Inspections Performed and Permits Issued: The U.S. Environmental Protection Agency and the State Regional Water Resources Control Board require wastewater agencies,

such as CMSA, to regulate commercial and industrial businesses in their service areas to ensure specific pollutants and materials are not discharged into the sanitary sewer system that can detrimentally affect the environment or wastewater treatment processes. Regulated businesses include restaurants, dental offices, car washes, dry cleaners, metal plating shops, auto repair facilities, manufacturing plants, and other business types that have the potential to produce environmentally harmful waste products. The Contract Service Revenues budget line items for FOG, Pollution Prevention, and the Mercury Source Control Programs recover costs to perform inspections and issue permits for other local agencies where CMSA has contracts to perform these services. The number of inspections completed and permits issued are shown in the table below and are the key performance measures for the referenced revenue line items. Fluctuations in the number of inspections are dependent upon customer compliance and by the number of new and existing businesses in the service area. Permits are issued for 1-, 2- or 3-year periods and the cyclical pattern is reflected in the number of permits renewed from FY17 through the FY19 budget.

				Projected Number Inspections/Permits		
	FY17	FY18	FY19	FY20	FY21	
Total FOG, Permit & Inspections, and						
Mercury Source Revenue*	\$99K	\$102K	\$59K	\$105K	\$108K	
Pretreatment and Pollution Prevention						
Inspections	224	121	141	225	225	
FOG Program Food Service Establishment						
Inspections	383	122	289	350	350	
Permits Issued and Renewed	106	65	88	100	100	

<sup>\*</sup>Reference: Schedule of Revenues and Other Financing Sources budget accounts 4030/4031/4033/4034/4035/4036/4037/4038-000-00.

K. Public Outreach and Education: CMSA is the lead agency for a county-wide public education program. Staff and program participants utilize exhibits to educate the public about important environmental issues related to water quality, stormwater, and wastewater at many community-based events. Some of these include the Marin County Fair, local festivals, farmers' markets, and Earth Day events. The program also hires a juggler to deliver educational and entertaining environmental messages to elementary school children. Attendance at public outreach and education events is a key performance measure for the Countywide Public Education budget. The Agency tracks the number of people who visit the public education booth and who take our environmental quiz, and the number of children who attend the educational school events. A calendar of events where CMSA will be in attendance is available on the Agency's website <a href="https://www.cmsa.us/localevents">www.cmsa.us/localevents</a>.

	FY17	FY18	FY19	FY20	FY21
Total Public Education Program Budget*	\$37K	\$33K	\$35K	\$21K	\$28K
Public Education Event Visitors	3,682	4,302	2,829	3,600	4,300
School Education Events					
Student Attendance	3,688	4,450	4,070	3,600	4,400

<sup>\*</sup>Reference: Technical Services Department budget account 6821-000-02.

### SECTION 4. STRATEGIC BUSINESS PLAN

The Strategic Business Plan (SBP) is a model to chart a strategic path to effectively maintain and improve the Agency's operations and services. CMSA's SBP has been constructed to prioritize projects, focus energy and resources, and guide fundamental decisions and actions that will successively build on each other into the future.

In September 2015, the Board of Commissioners approved development of the Agency's current SBP, conceptual format, and schedule for the five fiscal years from FY17 to FY21. Strategic planning workshops were held wherein Agency Commissioners participated in and collaborated with staff to review and revise the Agency's Mission, Vision, and Goals statements, and prepare new Value statements. High-level strategic statements and a SBP template were approved by the Board at its June 2016 meeting. Using these Board actions and guidance, the Agency Strategic Planning Committee (ASPC) developed the FY20 Business Plan consisting of Objectives and Actions to achieve the Board adopted Goals and to align with the SBP Mission, Vision, and Values statements.

The Agency's budget is closely aligned with the SBP, as the majority of the SBP strategic actions were considered in the budget development process. The focus of the Business Plan for FY20 will tentatively be on the activities listed below:

- Maintain the high performance of the treatment facility's operational processes
- Manage the Agency's assets
- Procure and implement a new financial software system
- Increase the Agency's energy efficiency through implementation of the power monitoring program
- Promote inter-agency coordination of projects and initiatives
- Promote a culture of leadership and professional growth to attract and develop qualified and skilled employees
- Maintain a safe and secure work environment
- Prepare for bond issuances in connection with the capital improvement program
- Improve methods of communication, e.g., Facebook presence, website upgrade

The Board reviews and accepts the Agency's Annual Business Plan for the following fiscal year, in this case FY20, in July of each year and it is available on the Agency website thereafter.

### SECTION 5. FINANCIAL REPORTING AND FINANCIAL POLICIES SUMMARY

The Agency is a Joint Powers Authority and its activities are accounted for in a single enterprise fund. A comprehensive set of Board adopted financial policies provides direction to protect the Agency's assets and investments through sound financial management. The Agency uses the accrual method of accounting in accordance with generally accepted accounting principles (GAAP) to produce its financial statements. The accrual method records revenue when earned and records expenses when incurred. The cash basis of accounting is used to produce the budget which records revenue when cash is received and records expenses when actually paid. The primary difference is that economic events are recognized at the time the transaction occurs regardless of when cash transactions occur. CMSA's annual financial statements and the Agency's compliance with policies and internal controls are audited by an independent outside auditor in accordance with generally accepted governmental auditing standards, and the statements meet the State Controller's Minimum Audit Requirements for California Special Districts. The Agency's audited financial statements are filed with the State Controller's Office and the County of Marin Auditor-Controller, are provided to various bond rating agencies, and are available to the general public for review. CMSA's Financial Policies Manual is available on the CMSA website at www.cmsa.us/documents/administrative.

### **CMSA Financial Policies Table of Contents**



CMSA's values:

"Sound financial practices to safeguard the Agency's assets."
"Effective asset management through appropriate short and long-term planning and sustainable practices."

#### **Financial Policies Summary**

The Board adopted a comprehensive set of financial policies which are periodically reviewed and updated to align with GFOA best practices, recommendations from the Agency's independent auditors, and the latest GASB pronouncements. Since then, the Agency has undertaken a schedule to review one of its three major sets of policy documents annually on a rotating basis. The set of policies includes Financial, Personnel, and Administrative. All three sets of policies were updated and adopted by the board during FY19: Financial in November 2018, Administrative in March 2019, and Personnel in April 2019.

Major financial policy areas are displayed in the graphic on the previous page and each specific policy is listed and summarized below. The framework of the financial policies governs the overall financial management and fiscal health of the Agency and promotes accountability to effectively direct the financial planning, management, and operations of the Agency. The General Manager and Administrative Services Manager are responsible for ensuring staff compliance with financial policies. A summary of each policy area is presented below:

- <u>Internal Controls</u>: Defines authorization levels, signatory requirements, segregation of duties, internal documentation requirements, monthly financial review, cash receipts, security, fiduciary responsibilities, and other internal control policies and procedures that Agency staff is required to follow.
- <u>Financial Reporting</u>: Defines the internal monthly Board reports and external financial reports required to be prepared by the Agency, including the annual financial report, Comprehensive Annual Financial Report (CAFR), financial and payroll reporting required by the IRS and the State of California, and debt reporting.
- Revenue Management: Provides direction on the funding requirements and management of Agency
  revenues, with respect to its organizational budgets, goals, and objectives. Defines the types of revenue
  sources, such as service charge allocations for the JPA member agencies, debt service charges, capacity
  charges, CMSA service contracts, and other forms of revenue.
- <u>Treasury</u>: Defines the roles and responsibilities of the General Manager and Treasurer, and includes comprehensive investment guidelines that cover how assets are to be invested to maintain safety, liquidity, and yield.
- Expenditure Management: Defines management of expenditures, including the required levels of approval and documentation, and accounting for transactions in the proper accounting period. Revenue Management and Expenditure Management policies form the cash basis of budgeting—where the money comes from (revenues) and where the money goes (expenditures).
- <u>Financial Planning</u>: Defines the balanced budget and specific planning documents required to be adopted by the Board of Commissioners, including the budget, the 10-year capital improvement program, and 10-year financial forecast, as well as monthly reporting requirements.
- <u>Procurement Management</u>: Defines the levels of authority for purchase orders, and signatory
  requirements for all types of procurement expenditures, such as professional service agreements,
  construction contracts, equipment purchases, and materials and supplies purchases. This policy also
  includes guidelines for petty cash and credit card purchases.
- <u>Asset Management</u>: Defines the type of assets and the capitalization dollar thresholds for assets to be
  capitalized, the proper accounting for assets, disposal guidelines, and requires on-going asset condition
  assessment programs to facilitate projected replacement(s) and budget planning.

## SECTION 6. BUDGET DEVELOPMENT: BALANCED BUDGET, BASIS OF BUDGETING, ACCOUNTING, DEVELOPMENT AND ADMINISTRATION

The Board approves and adopts a balanced budget prior to the start of the fiscal year beginning July 1. The Board, General Manager, and Agency staff each have their respective Agency, departmental, and program responsibilities to develop a financially responsible budget each fiscal year. Budget development is guided by financial policies and procedures, the strategic business plan, long and short-term organizational goals and objectives, the economic climate, and other external factors.

#### FY20 & FY21 Budget Calendar – Development, Adoption, and Administration

#### ct ioiiiia

- January 2019

   Develop budget calendar & budget format for FY20 & FY21
  - Analyze FY19 budget performace
- Began preliminary discussion to align Strategic Plan, Capital Improvement Plan and 10-Year Financial Forecast (Plan) into the FY20 & FY21 Budget
- Member agencies submit final FY19 EDU counts used to calculate FY20 waste hauler and monitoring fee schedules.

#### Adopted Budget

July 1, 2019 - June 30, 2020 July 1, 2020 - June 30, 2021

#### Budget Management and Oversight:

Budget amendments increasing the overall fiscal year budget are subject to Board review and approval

- Monthly Budget Performance Report distributed to staff
- Quarterly Budget Reports to Board (Sept, Dec, March)
  - Annual Audited Financial Statements

#### May 2019

- Hold public Board Meeting with opportunities for public comment
- Board receives and reviews FY20 & FY21 Proposed Budget and provides comments and direction to General Manager
- Incorporate Board comments and finalize FY20 & FY21
   Proposed Budget for adoption by Board at the June meeting

#### April 2019

- Sewer service revenues calculated using strength and flow data
- Conduct budget workshop with Board Finance Committee
- Incorporate Finance Committee guidance into proposed FY20 & FY21 Budget
- Finalize FY20 & FY21 Proposed Budget for presentation to the Board at the May meeting

#### February 2019

- Distribute FY20 & FY21 baseline budget templates by Department, Capital & Asset Management Projects, Contract Services, and Public Education Program
- Develop FY20 & FY21
   estimates of revenues and
   funding requirements for
   employee compensation items

#### March 2019

- Finalize employee compensation and insurance budgets for FY20 & FY21
- Complete initial review of departmental and programmatic budget and revenue submittals
  - Estimate FY19 year-end expenditure projections
- Prepare preliminary charts, graphs, tables and narrative for FY20 & FY21 budget document

#### ui buuge

- June 2019
   Present final budget to Board
- Board adopts FY20 & FY21 Budget
- Publish and distribute FY20 & FY21 Budget

**Balanced Budget:** The Budget is balanced when revenues and other financing sources (uses) equal expenditures. When revenues exceed expenditures, surplus funds are transferred into designated reserve accounts in accordance with the Agency's Financial Reserves Policy.

Cash Basis of Budgeting: The Agency's biennial budget and 10-year forecast are based on the cash method of accounting and exclude non-cash depreciation and amortization expenses. Revenues are budgeted according to what is expected to be collected during the budget year, and expenditures are budgeted according to what is expected to be spent during the fiscal year. The cash basis recognizes revenue when cash is received and recognizes expenses when cash is spent.

Accrual Basis of Accounting: The Agency is an enterprise fund and accounts for all its financial activity utilizing the accrual method of accounting in accordance with all applicable Government Accounting Standards Board (GASB) pronouncements for accounting, and recognizes revenues, expenses, assets, and liabilities in the proper fiscal year. The accrual method recognizes transactions and events when they occur, regardless of when cash is received or spent. One of the primary differences between the cash basis of budgeting and the accrual basis of accounting is the accrual method matches revenues to expenses which gives a more accurate picture of the Agency's financial condition.

#### **Development, Adoption, and Administration**

The biennial budget development cycle begins with an analysis of the current year budget compared to projected annual expenditures and long-term capital improvement program funding, and serves as the baseline for the upcoming budget. During the course of budget development, the General Manager and Administrative Services Manager meet with the Board Finance Committee to review options to balance the budget including possible refining of expenditure budgets and/or appropriate funds from various designated reserves. A proposed budget is presented to the Board in May during a publicly noticed meeting where customers and other stakeholders in the service area are encouraged to provide input on the budget for Board consideration. Any direction provided by the Board in May is incorporated into the final proposed budget, which is presented to the Board in June at a publicly noticed meeting for consideration of adoption. Once adopted, the budget serves as the revenue collection and spending plan for the July 1 to June 30 fiscal period.

During the course of the fiscal year, finance staff prepares, and management staff reviews, detailed monthly budget performance reports and corresponding revenue and expenditure analyses. Finance staff also prepares a quarterly budget status report for Board review which details the financial performance of the Agency, describes billings and revenue collections, and analyzes operations and capital expenditures. The quarterly budget performance reports are available for public review and are included in the Board meeting agenda packets which are available on the Agency website at <a href="https://www.cmsa.us/board/agendas-and-minutes">www.cmsa.us/board/agendas-and-minutes</a>.

#### SECTION 7. FY20 & FY21 BUDGET - DISCUSSION AND ANALYSIS

Budget development for FY20 & FY21 began in January 2019. During the course of its development, the General Manager and Administrative Services Manager reviewed the work in progress and sought guidance from the Board Finance Committee on the major components of the FY20 & FY21 Budget that consist of: (1) operating revenues, expenses, and debt service; (2) capital improvement project (CIP) expenditures and the 10-year CIP projections (Section 8); and (3) the 10-Year Financial Forecast assumptions (Section 9).

The FY20 & FY21 Budget is a balanced budget (revenues less expenditures and any balance transferred to/from reserves) and includes any changes made from the preliminary budget. The FY20 & FY21 Budget incorporates changes in employee compensation that resulted from market survey and cost of living adjustments with the Agency's two employee groups effective for July 1, 2019. This section presents two components of the Budget for both revenues and expenditures. Section 8 presents the third component of the Budget for capital expenditures.

CMSA's primary source of revenue in the FY20 & FY21 Adopted Budget is sewer service charges received from JPA member agencies. Sewer service charges are based upon respective member's volume and strength of wastewater treated. This method is a fair determination because it recognizes that volume and strength vary per JPA member and it assigns costs based upon the actual burden placed on the treatment facility. The Agency has now completed seven years beginning in FY14 of calculating the wastewater strength from each JPA member's flow and has incorporated 36-months of wastewater strength along with 36-months of wastewater volume in determining each JPA member's FY20 & FY21 sewer service charges.

Table 1 shows the FY18 actual and FY19, FY20, and FY21 budgeted operating revenues and expenses, with surplus funds flowing into operating and unrestricted capital reserves. Major changes to FY20 & FY21 revenues and expenditures from FY19 & FY20 are discussed in the narrative following Table 1.

Table 1: Overview of Operating Revenues and Expenditures for FY18, FY19, FY20 & FY21

	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19	Adopted Budget FY21	FY21 Change from FY20
<b>Total Operating Revenues</b>						
(Excludes Capital Fee, Capacity						
Charges, Debt Service, and Other						
Financing Sources)	\$12,072,388	\$12,334,425	\$13,128,126	6.4%	\$13,789,404	5.0%
<b>Total Operating</b>						
Expenditures	10,704,348	11,822,000	12,569,900	6.3%	13,030,100	3.7%
Surplus/(Deficit)	\$ 1,368,040	\$ 512,425	\$ 558,226	8.9%	\$ 759,304	36.0%

Note: Budget surpluses are transferred to designated reserve funds per Financial Policy #532.

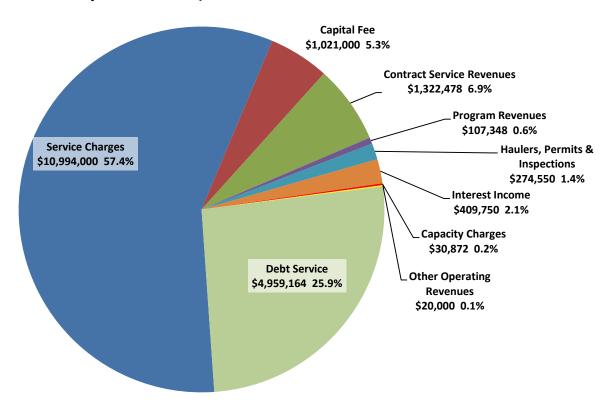
Total FY20 operating revenues increase by 6.4% and operating expenditures increase by 6.3%, and for FY21 revenues increase 5% and expenses 3.7%. Budgeted operating surplus for FY20 and FY21 in the amounts of approximately \$558K and \$759K, respectively, will transfer in accordance with the transfer policy.

**Adopted FY20 & FY21 Revenues:** Table 2 summarizes revenues by source for FY18 actual, and adopted FY19, FY20 & FY21 budgets. A brief analysis that describes the difference between FY19 and FY20 & FY21 revenue categories follows the pie chart below.

Table 2: Revenues by Source for FY18 Actual, FY19, FY20 & FY21 Adopted Budgets

_				FY20			FY21	
				_				
Revenue Sources by	Actual	Budget	Adopted	Change	% Total	Adopted	Change	% Total
Category	FY18	FY19	Budget FY20	vs FY19	Revenue	Budget FY21	vs FY20	Revenue
Operating Revenues								
Service Charges	\$10,263,165	\$10,622,376	\$10,994,000	3.5%	56.1%	\$11,379,001	3.5%	39.2%
Contract Service Revenues	1,152,800	1,108,808	1,322,478	19.3%	6.8%	1,550,934	17.3%	5.3%
Program Revenues	76,633	146,030	107,348	-26.5%	0.5%	122,139	13.8%	0.4%
Haulers, Permits &								
Inspections	278,986	221,450	274,550	24.0%	1.4%	274,550	0.0%	0.9%
Interest Income	216,592	215,760	409,750	89.9%	2.1%	442,780	8.1%	1.5%
Other Operating Revenues	84,212	20,000	20,000	0.0%	0.1%	20,000	0.0%	0.1%
<b>Total Operating Revenues</b>	\$12,072,388	\$12,334,424	\$13,128,126	6.4%	67.0%	\$13,789,404	5.0%	47.5%
Capital Fee	630,000	811,258	1,021,000	25.9%	5.2%	1,252,000	22.6%	4.3%
Capacity Charges	197,753	30,091	30,872	2.6%	0.2%	31,675	2.6%	0.1%
Debt Service	4,952,382	4,966,508	4,959,164	-0.1%	25.3%	4,946,258	-0.3%	17.0%
Other Financing Sources	-	-	450,000	0.0%	2.3%	9,000,000	1900.0%	31.0%
Total Non-Operating								
Revenues	\$5,780,135	\$5,807,857	\$6,461,036	11.2%	33.0%	\$15,229,933	135.7%	52.5%
TOTAL REVENUES	\$17,852,523	\$18,142,281	\$19,589,162	8.0%	100.0%	\$29,019,337	48.1%	100.0%

## FY20 Budget Revenues by Source (Where the Money Comes From)



(A list of acronyms and their definitions used in the revenues and expenditures analyses can be found in Section 11 - Key Terms and Financial Glossary with Acronym Listing)

<u>Service Charges</u>: A fee collected for providing wastewater treatment service that is allocated to each JPA member based on wastewater flow and strength into CMSA from April 1, 2016 to March 31, 2019. Flow is measured in millions of gallons and strength factors are measured in pounds for mass of biological oxygen demand and mass of total suspended solids. The sewer service charges are budgeted to increase by 3.5% to fund increased operating expenses with any surplus to transfer to the unrestricted capital reserve to fund future capital projects as planned in the 10-year financial forecast (Section 9).

<u>Service Charge Capital Fee:</u> A fee collected from JPA members to fund capital projects flows directly into unrestricted capital reserves for use currently or within the term of the 10-year CIP.

<u>Contract Services</u>: Revenues received for services provided by the Agency under contract to local agencies are expected to increase by 19.3% in FY20 and 17.3% in FY21.

- \$601,545 and \$810,003 for SQSP wastewater services for each of FY20 and FY21, respectively.
   The budget is based upon the % flow/strength contribution times the sum of the CMSA O&M budget plus the capital budget.
- \$115,921 and \$120,442 for FY20 and FY21, respectively, for SQSP pump station maintenance. This contract increases by Bay Area CPI in the amount of 3.9% for each year.
- \$71,686 and \$51,826 for SQ Village for each of FY20 and FY21, respectively. These budget amounts vary due to different amounts of approved maintenance projects.
- \$446,475 and \$478,337 for SD 2 Pump Station Maintenance for each of FY20 and FY21, respectively. Costs vary by different amounts of approved maintenance work.
- The Agency also has contracts with six neighboring sanitation districts for a FOG (Fats, Oil, Grease) inspection and pollution prevention program, and has a contract with one neighboring sanitation district to inspect dental amalgam collection and disposal procedures of dentists within that district's service area. Budgeted revenues for these agencies as a whole amounts to \$86,851 and \$90,325 for each of FY20 and FY21, respectively.

<u>Program Revenues</u>: Revenues received in accordance with agreements with program participants for the Health & Safety and Countywide Public Education programs. Revenues are expected to decrease 26.5% for FY20 for changes in specific program items and increase13.8% for FY21. Both programs decreased for FY20, while the Public Education program increased for FY21 for programs for RxSafe Marin and additional promotional items.

<u>Haulers, Permits, and Inspection</u>: Revenues received from charges for septage disposal at the CMSA facility from private waste haulers, permit fees for industrial waste dischargers, administrative costs for pollution prevention program inspections, and other services. Revenues are increasing from septic haulers, from FOG deliveries, and from foodwaste disposal.

<u>Interest income</u>: The Agency maintains its investments in liquid investment pools with the State of California Local Agency Investment Fund (LAIF) and a smaller principal balance in the California Asset Management Program (CAMP). Interest rates for both LAIF and CAMP increased one full percentage point estimated for LAIF at 2.5% and 2.7% for each of FY20 and FY21, respectively, and for CAMP at

2.6% and 2.8% for FY20 and FY21, respectively, thereby increasing budgeted interest income approximately 90% for FY20. FY21 is budgeted at approximately 8% higher than FY20.

<u>Capacity Charges</u>: Revenue received from new construction or converting former septic system properties to public sewer to purchase capacity in the sanitary sewer system. Capacity charges when received may be used for capital purposes only. Due to generally few new connections, the Agency budgets for two new connections each for SRSD and RVSD and for one new connection for SD#2.

The capacity charge fee for a single-family dwelling unit will increase 2.6% from \$6,094.28 to \$6,252.73 for FY20 and an estimated 2.6% also for FY21 as adjusted by the Engineering News Record (ENR) Construction Cost Index for the San Francisco Bay Area for the twelve month period from April to April. The Agency's capacity charge Fee Schedule Ordinance No. 2016-1 is available on the website at <a href="https://www.cmsa.us/documents/ordinances">www.cmsa.us/documents/ordinances</a>.

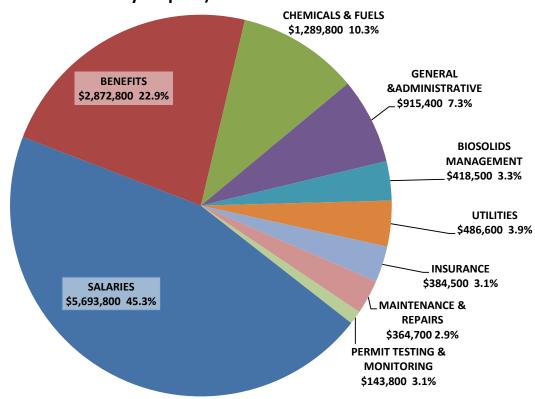
**Adopted FY20 & FY21 Operating Expenditures:** Approximately 90% of the operating budget is related to fixed costs over which the Agency has limited control once agreements are in place, and include salaries, benefits, chemicals, biosolids hauling and disposal, permit sampling requirements, biosolids monitoring compliance, insurance, utilities, and several operating permits required by regulatory agencies. The remaining 10% represents professional affiliations, memberships, professional development, and general and administrative expenses that include a varying degree of funds available for discretionary use.

The Agency's FY20 & FY21 Adopted Budget is summarized in Table 3 below, Budget by Category of Expenditures. The pie chart shows this information in a graphical display. A descriptive analysis for each expenditure category can be found following the pie chart.

Table 3: Budget by Category of Expenditures for FY18, FY19, FY20 & FY21 Adopted Budgets

				FY20			FY21	
			Adopted	Change	Adopted	Adopted	Change	Adopted
Operating Expenditures by	Actual	Budget	Budget	from	as % of	Budget	from	as % of
Category	FY18	FY19	FY20	FY19	Budget	FY21	FY20	Budget
SALARIES	\$ 5,255,003	\$ 5,555,200	\$ 5,693,800	2.5%	45.3%	\$ 5,999,600	5.4%	46.0%
BENEFITS	2,385,487	2,758,700	2,872,800	4.1%	22.9%	3,137,700	9.2%	24.1%
CHEMICALS & FUELS	981,193	1,126,900	1,289,800	14.5%	10.3%	1,261,800	-2.2%	9.7%
UTILITIES	284,900	317,800	486,600	53.1%	3.9%	390,400	-19.8%	3.0%
BIOSOLIDS MANAGEMENT	381,057	400,300	418,500	4.5%	3.3%	435,300	4.0%	3.3%
PERMIT TESTING & MONITORING	149,815	148,800	143,800	-3.4%	1.1%	142,500	-0.9%	1.1%
MAINTENANCE & REPAIRS	362,422	363,500	364,700	0.3%	2.9%	377,200	3.4%	2.9%
GENERAL & ADMINISTRATIVE	675,361	900,000	915,400	1.7%	7.3%	879,700	-3.9%	6.8%
INSURANCE	229,110	250,800	384,500	53.3%	3.1%	405,900	5.6%	3.1%
Total Expenditures	\$10,704,348	\$11,822,000	\$12,569,900	6.3%	100.0%	\$13,030,100	3.7%	100.0%

## FY20 Budget by Category of Expenditure (Where the Money is Spent)



<u>Salaries</u>: Salaries are budgeted to increase by a net 2.5% for FY20 due to a 3% COLA salary adjustment for Agency employees effective July 1, 2019 net of a vacant position replacement at a lower step, and other anticipated compensation adjustments for eligible staff. Salaries are budgeted to increase 5.4% for FY21.

Benefits: Total employee benefit costs increase 4.1% for FY20 and 9.2% for FY21. Employee benefits include costs for retirement pensions, medical, retiree medical, and other benefits. For retiree medical, Agency policy is to contribute the full amount of the GASB 75 actuarially determined contribution (ADC) in the amount of approximately \$250K for direct medical costs and to fund the OPEB Trust. Retiree medical costs include Agency paid minimum insurance premiums to CalPERS medical for eligible retired employees, plus reimbursement amounts paid to retirees for the employee portion withheld from pension checks, and prefunding amounts paid to the retiree medical trust known as CERBT (California Employers Retirement Benefit Trust). Transfers to the trust are irrevocable. The trust is a Section 115 trust that holds and accumulates amounts to be used for the exclusive benefit of eligible retirees and their beneficiaries. The Agency is funding the trust in the amount of \$43K established in accordance with the OPEB funding plan for full funding in approximately five years near or at which time benefits will be paid from the trust. The OPEB funding plan may be subject to change conditioned upon changes in the ADC and other OPEB funding assumptions. Earnings of the trust will be self-supporting to pay benefit obligations from the trust.

<u>Chemicals & Fuel</u>: This category is budgeted to increase by 14.5% for FY20 and to decrease 2.2% for FY21. The increase and subsequent decrease in chemical costs is due to the timing of deliveries and length of time to order the next delivery. Significant savings were achieved when the Agency joined the Bay Area Chemical Consortium (BACC) in FY14, a regional chemical purchasing cooperative. Chemical suppliers bid to supply chemicals to the members of the cooperative, by region, which results in lower unit costs than what the Agency would be able to obtain on its own. In FY20 & FY21, the Agency continues to benefit from reduced bid prices from the cooperative chemicals. While the Agency can develop projections for the quantity of chemicals used, the cooperative helps reduce the challenges and risks associated with estimating the future volatility of commodity unit prices.

<u>Utilities</u>: This category for electricity, natural gas, and other utilities is budgeted to increase 53% for FY20 and to decrease 19.8% for FY21. The substantial increase in utility costs is due to the need to purchase all electricity from PG&E with no cogeneration as the cogeneration engine suffered irreparable damage that will require a full rebuild and several months downtime. The Agency anticipates resuming power generation and electricity savings with completion of the engine.

<u>Biosolids Management</u>: This category is budgeted to increase 4.5% and 4% for FY20 and FY21, respectively, due to contractual rate increases.

<u>Permit Testing and Monitoring</u>: This category is budgeted to decrease 3.4% and .9% for FY20 and FY21, respectively. This is due to more testing in-house rather than contracting with outside labs.

<u>Maintenance & Repairs</u>: This category is very consistent between years at a budget increase of .3% for FY20 and a 3.4% increase for FY21, respectively. There is a general increase for FY21.

<u>General & Administrative</u>: This category is very consistent between years budgeted to increase 1.7% for FY20 and to decrease 3.9% for FY21 respectively.

<u>Insurance</u>: Insurance is budgeted to increase 53.3% for FY20 and 5.6% for FY21, respectively. Most insurance types increased usual and customary amounts, like 5% for each of the two fiscal years. However, due to two employees with long-term work-related injuries the Agency's experience modification (the X-Mod) increased 150% thereby substantially increasing the workers compensation premium.

#### Operating & Capital Budget for FY20 & FY21 Overview

The budget overview provided below summarizes the Agency's primary sources and uses of funds, to give the reader an understanding of the budget and its organization. This overview also assists the reader in locating additional detail within the budget document.

## Revenues:

#### Where the Money Comes From

Below is a listing of the budget documents which describe the Agency's source of funds.

DOCUMENT TITLE	BUDGET PURPOSE	EXPLANATION
Funding	A snapshot summary.	Displays total expenditures and total revenues and
requirements and		summarizes anticipated reserve increases and uses, to
Sources Summary		estimate ending funding sources.
Section 7		
Schedule of	Revenue budget requirements	A detailed revenue budget by category for all line
Revenues and		items in each revenue category, including the use of
Other Financing		reserves as a revenue source.
Sources		
Section 7		

## **Expenditures:**

### Where the Money Is Spent

The budget documents listed below describe the Agency use of funds in greater detail.

DOCUMENT TITLE	BUDGET PURPOSE	EXPLANATION
Summary of	Summarizes total operating budget	The summary presents comparisons for actual FY18
Expenditures by	expenditures by departments and by	expenditures, to the FY19, FY20 & FY21 adopted
Departments and	category.	budgets.
Category		
Section 7		
Departmental	The departmental budget documents	Descriptions of each department and its core
Operating Budgets	show in greater detail how each	functions and responsibilities, including a summary
Section 7	department expects to spend their	of Expenditures by Category, an Authorized
	budgeted dollars during FY20 & FY21.	Positions head count for three fiscal years, and FY20
		& FY21 Department Initiatives.
	*Administration	
	*Maintenance	Operating Budget detailed by line items account for
	*Operations	three fiscal years for each department.
	*Technical Services	
	*Cooperative Agreement (a cost	The Budget Explanation by line item account
	center that tracks reimbursable	number includes an account description that
	expenses related to services provided	explains what the budgeted dollars are spent on.
	to other local agencies)	Additional notes and information that affected the
		development of the budget are also included.

DOCUMENT TITLE	BUDGET PURPOSE	EXPLANATION
Capital Improvement Program (Section 8)	The FY20 & FY21 Capital Improvement Program provides a discussion of the summary tables and charts for the CIP FY20 & FY21 Budget and 10-Year Forecast, detailed information by account number, and descriptions and elements involved for selected planned projects.	Capital Improvement Program discussion compares the FY19 adopted budget to the adopted budget for FY20 & FY21, and provides a narrative about significant changes in the projects planned for the next two fiscal years.  Capital Improvement Program FY20 & FY21 Budget and 10-Year Forecast. This schedule shows the FY19 Adopted Budget, the FY20 & FY21 Budget, and presents a projected 10-year forecast for planned activities by budget line item account.  The Account/Project Descriptions and Full Page Project Descriptions are explanations of how the
		budget will be spent and provides additional detail about each project and future planned activities.
10-Year Financial	Long-term strategic budgetary	Projections for future planned operations provide
Forecast	examination of future operations.	decision-making guidance for the timing and needs
(Section 9)		for funding sources and requirements.
Debt Obligation (Section 10)	Debt Service payment to owners of the Agency's Refunding Revenue Bonds Series 2015.	This schedule shows total principal and interest due for debt service for each fiscal year through FY32.

## CENTRAL MARIN SANITATION AGENCY FUNDING REQUIREMENTS AND SOURCES SUMMARY

						FY20		FY21
	Actual		Budget		Adopted	Change	Adopted	Change
Funding Requirements	FY18		FY19		FY20	vs FY19	FY21	vs FY20
Operating:	ć F.255	000	ć F.EEE 200	۲,	F CO2 000	2.50/	\$ 5.999.600	F 40/
Salaries and Wages	\$ 5,255,0		\$ 5,555,200	\$	5,693,800	2.5% 4.1%	, -,,	5.4% 9.2%
Employee Benefits	2,385,		2,758,700		2,872,800		3,137,700	
Chemicals & Fuels	981, 381,		1,126,900 400,300		1,289,800 418,500	14.5% 4.5%	1,261,800 435,300	-2.2% 4.0%
Biosolids Management	•		•		,	4.5% -3.4%	,	4.0% -0.9%
Permit Testing & Monitoring	149,		148,800		143,800		142,500	-0.9% 3.4%
Maintenance & Repairs	362,		363,500		364,700	0.3%	377,200	
Utilities	284,		317,800		486,600	53.1%	390,400	-19.8%
Insurance	229,		250,800		384,500	53.3%	405,900	5.6%
General & Administrative	675,	361	900,000		915,400	1.7%	879,700	-3.9%
Operating before debt and capital	10,704,	347	11,822,000		12,569,900	6.3%	13,030,100	3.7%
Debt Service	3,961,	906	3,973,206		3,967,331	-0.1%	3,957,006	-0.3%
Operating before capital	14,666,	253	15,795,206		16,537,231	4.7%	16,987,106	2.7%
Capital Improvements	\$ 2,194,	253	\$ 2,862,500	\$	3,900,626	36.3%	8,484,664	117.5%
Total requirements	\$ 16,860,	506	\$ 18,657,706	\$	20,437,857	9.5%	\$ 25,471,770	24.6%
						FY20		FY21
	Actual		Budget		Adopted	Change	Adopted	Change
Funding Sources	FY18		FY19		FY20	vs FY19	FY21	vs FY20
Service Charges	\$ 10,263,	165	\$ 10,622,377	\$	10,994,000	3.5%	\$ 11,379,001	3.5%
Capital Fee	630,	000	811,258		1,021,000	25.9%	1,252,000	22.6%
Debt Service Charge	4,952,	382	4,966,508		4,959,164	-0.1%	4,946,258	-0.3%
Capacity Charges	197,	753	30,091		30,872	2.6%	31,675	2.6%
Contract Service Revenues	1,152,	300	1,108,808		1,322,478	19.3%	1,550,934	17.3%
Program Revenues	76,	33	146,030		107,348	-26.5%	122,139	13.8%
Haulers, Permits & Inspections	278,	986	221,450		274,550	24.0%	274,550	0.0%
Other Revenues	84,	212	20,000		20,000	0.0%	20,000	0.0%
Interest Income	216,	92	215,760		409,750	89.9%	442,780	8.1%
Other Financing Sources (Notes 1, 2)		-	-		450,000		9,000,000	
Subtotal funding sources	17,852,		18,142,282		19,589,162	8.0%	29,019,337	48.1%
Reserve (Increase) Usage	(992,		515,424		848,695	64.7%	(3,547,567)	-518.0%
(			3.3,.21			· · · · · · ·	(5,5 ,561)	520.073
Total funding sources	\$ 16,860,	506	\$ 18,657,706	\$	20,437,857	9.5%	\$ 25,471,770	24.6%

Note 1: FEMA reimbursement for Andersen Drive hillside as other financing source in FY20

Note 2: Assumed revenue bond issuance as other financing source in FY21  $\,$ 

## CENTRAL MARIN SANITATION AGENCY SCHEDULE OF REVENUES AND OTHER FINANCING SOURCES

Account #	Description	Actual FY18	Budget FY19	Adopted FY20	FY20 Change vs FY19	Adopted FY21	FY21 Change vs FY20
	Service Charges to Members <sup>1</sup>						
4010-000-00	SRSD	\$ 4,249,977	\$ 4,340,303	\$ 4,644,965	7.0%	\$ 4,807,628	3.5%
4010-000-00	RVSD	5,162,372	5,363,238	5,420,042	1.1%	5,609,847	3.5%
4010-000-00	SD #2	850,816	918,836	928,993	1.1%	961,526	3.5%
	Totals	\$ 10,263,165	\$ 10,622,377	\$ 10,994,000	3.5%	\$ 11,379,001	3.5%
		<u> </u>		<del></del>			
4010-000-00	Capital Fee to Members <sup>1</sup> SRSD	\$ 260,883	\$ 331,480	\$ 431,373	30.1%	\$ 528,970	22.6%
4010-000-00	RVSD	\$ 260,883 316,890	\$ 331,480 409,604	\$ 431,373 503,353	30.1% 22.9%	\$ 528,970 617,236	22.6% 22.6%
4010-000-00	SD #2	52,227	70,174	86,275	22.9%	105,794	22.6%
4010 000 00	3D #2	32,227	70,174	00,273	22.570	103,734	22.070
	Totals	\$ 630,000	\$ 811,258	\$ 1,021,001	25.9%	\$ 1,252,000	22.6%
	Debt Service Cost to Members <sup>2</sup>						
4011-000-00	SRSD	\$ 1,859,855	\$ 1,865,160	\$ 1,862,402	-0.1%	\$ 1,857,555	-0.3%
4011-000-00	RVSD	2,131,911	2,137,992	2,134,830	-0.1%	2,129,274	-0.3%
4011-000-00	SD #2	579,510	581,163	580,303	-0.1%	578,793	-0.3%
4011-000-00	SQSP	381,106	382,193	381,627	-0.1%	380,635	-0.3%
	Totals	\$ 4,952,382	\$ 4,966,508	\$ 4,959,162	-0.1%	\$ 4,946,257	-0.3%
	Total Billed Charges to Members	\$ 15,845,547	\$ 16,400,143	\$ 16,974,163	3.5%	\$ 17,577,258	3.5%
	Capacity Charges						
4020-010-00	SRSD	\$ 144,357	\$ 12,036	\$ 12,349	2.6%	\$ 12,670	2.6%
4020-020-00	RVSD	47,463	12,036	12,349	2.6%	12,670	2.6%
4020-030-00	SD #2	5,933	6,018	6,174	2.6%	6,335	2.6%
	Totals	\$ 197,753	\$ 30,091	\$ 30,872	2.6%	\$ 31,675	2.6%

Note 1: See flow-strength tables in appendix A

Note 2: See EDU allocation table in appendix A

# CENTRAL MARIN SANITATION AGENCY SCHEDULE OF REVENUES AND OTHER FINANCING SOURCES (Continued)

		Act	ual		Budget	,	Adopted	FY20 Change	,	Adopted	FY21 Change	
Account #	Description	FY:	18		FY19		FY20	vs FY19		FY21	vs FY20	Notes
	Contract Consider Reviews											
4601-000-00	Contract Service Revenues  SQ State Prison Wastewater Services	\$ 58	39,690	\$	522,405	\$	601,545	15.1%	\$	810,003	34.7%	O&M plus capital * 3.79% (appendix)
4601-000-00	SQ State Prison Pump Station Maint		15,547	Ş	111,570	Ş	115,921	3.9%	Ą	120,442	34.7%	Bay Area CPI Jan-Jan at 3.9%
4602-000-00	SQ Village Wastewater Services		22,279		45,297		71,686	58.3%		51,826	-27.7%	FY18 budget to Marin County PW
4600-000-00	SD #2 Pump Station Maintenance		37,164		394,536		446,475	13.2%		478,337	7.1%	FY18 Corte Madera PS Budget
4031-000-00	LGVSD - FOG & pollution prevention		11,694		10,000		19,565	95.7%		20,348	4.0%	Source control service estimate
4033-000-00	RVSD - FOG		8,956		8,000		23,100	188.8%		24,024	4.0%	Source control service estimate
4034-000-00	SRSD - FOG		10,321		10,000		30,900	209.0%		32,136	4.0%	Source control service estimate
4035-000-00	TCSD - FOG	-	596		1,500		1,584	5.6%		1,648	4.0%	Source control service estimate
4036-000-00	SD #2 - FOG		2,790		2,500		7,640	205.6%		7,945	4.0%	Source control service estimate
4037-000-00	Novato SD - Dental Amalgam		2,849		1,500		3,432	128.8%		3,569	4.0%	Source control service estimate
4038-000-00	Almonte SD - FOG		915		1,500		630	-58.0%		655	4.0%	Source control service estimate
.050 000 00	,e		313		2,500		030	30.070		000		Source control service estimate
	Total contract service revenues	\$ 1,15	52,800	\$	1,108,808	\$	1,322,478	19.3%	\$	1,550,934	17.3%	
	Program Revenues											
4070-000-00	Health & Safety Program	\$ 5	51,432	\$	86,600	\$	72,100	-16.7%	\$	74,800	3.7%	Shared program with Novato Sanitary
4080-001-00	County-wide Public Education Program		25,201	Ψ.	59,430	Ψ.	35,248	-40.7%	Ψ.	47,339	34.3%	Multi-agency program budget
4080-002-00	Outside Safety Training	_	,		-		-			-	,	
	3											
	Total program revenues	\$ 7	76,633	\$	146,030	\$	107,348	-26.5%	\$	122,139	13.8%	
										,		
	Haulers, Permits & Inspection											
4030-000-00	Permit and Inspection Fees	\$	8,925	\$	24,000	\$	18,000	-25.0%	\$	18,000	0.0%	Permitting of regulated businesses
4050-010-00	Revenue from Haulers - Septic	11	L6,704		75,000		110,000	46.7%		110,000	0.0%	\$83.30 per 1,000 gal plus sampling fee
4050-020-00	Revenue from Haulers - RV		531		250		1,050	320.0%		1,050	0.0%	\$10 per load
4050-030-00	Revenue from Haulers - FOG	9	93,242		75,000		90,000	20.0%		90,000	0.0%	Tiered pricing per fee ordinance
4050-035-00	Revenue from Haulers - Liquid Waste		4,949		4,200		500	-88.1%		500	0.0%	Price negotiated per truckload
4050-040-00	Revenue from Foodwaste Disposal	5	54,634		43,000		55,000	27.9%		55,000	0.0%	Tipping fee from Marin Sanitary Service
	Total haulers, permits & inspection	\$ 27	78,986	\$	221,450	\$	274,550	24.0%	\$	274,550	0.0%	
	Interest Income											
4910-002-00	Interest Income - LAIF	\$ 21	11,206	\$	210,000	\$	400,000	90.5%	\$	432,000	8.0%	LAIF yield at 2.5% and 2.7%
4910-004-10	Interest Income - US Bank		118	\$		\$				· -		Interest earnings reduce debt serv inv
4910-011-00	Investment Interest - CAMP		5,267		5,760		9,750	69.3%		10,780	10.6%	CAMP yield at 2.6% and 2.8%
	Total interest income	\$ 21	16,592	\$	215,760	\$	409,750	89.9%	\$	442,780	8.1%	
	Other Revenues											
4990-000-00	Other non-operating revenue	\$ 8	34,212	\$	20,000	\$	20,000	0.0%	\$	20,000	0.0%	Miscellaneous infrequent items
	Total other revenues	\$ 8	24 212	Ċ	20.000	\$	20,000	0.00/	۲	20,000	0.0%	
	Total other revenues	<u>ې د</u>	34,212	\$	20,000	Ş	20,000	0.0%	\$	20,000	0.0%	

Summary of Expenditures by Departments and Category

Operating Expenditures by Department	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19	Adopted FY21	FY21 Change from FY20	Adopted FY20 as % of Budget	Adopted FY21 as % of Budget
ADMINISTRATION	4,325,052	4,734,400	5,098,400	7.7%	5,492,100	7.7%	40.6%	42.1%
MAINTENANCE	1,917,452	1,918,900	1,998,300	4.1%	, ,	4.8%	15.9%	16.1%
OPERATIONS	2,892,869	3,243,100	3,490,400	7.6%	3,450,200	-1.2%	27.8%	26.5%
TECHNICAL SERVICES	1,568,975	1,925,600	1,982,800	3.0%	1,994,200	0.6%	15.8%	15.3%
TOTAL	10,704,348	11,822,000	12,569,900	6.3%	13,030,100	3.7%	100.0%	100.0%

Operating Expenditures by Category	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19	Adopted FY21	FY21 Change from FY20	Adopted FY20 as % of Budget	Adopted FY21 as % of Budget
CALADIEC	E 3EE 003	F FFF 200	E CO3 800	2.50/	F 000 C00	F 40/	45 20/	46.00/
SALARIES	5,255,003	5,555,200	5,693,800	2.5%	5,999,600	5.4%	45.3%	46.0%
BENEFITS	2,385,487	2,758,700	2,872,800	4.1%	3,137,700	9.2%	22.9%	24.1%
SUB-TOTAL	7,640,491	8,313,900	8,566,600	3.0%	9,137,300	6.7%	68.2%	70.12%
CHEMICALS & FUELS	981,193	1,126,900	1,289,800	14.5%	1,261,800	-2.2%	10.3%	9.7%
UTILITIES	284,900	317,800	486,600	53.1%	390,400	-19.8%	3.9%	3.0%
BIOSOLIDS MANAGEMENT	381,057	400,300	418,500	4.5%	435,300	4.0%	3.3%	3.3%
PERMIT TESTING & MONITORING	149,815	148,800	143,800	-3.4%	142,500	-0.9%	1.1%	1.1%
MAINTENANCE & REPAIRS	362,422	363,500	364,700	0.3%	377,200	3.4%	2.9%	2.9%
GENERAL & ADMINISTRATIVE	675,361	900,000	915,400	1.7%	879,700	-3.9%	7.3%	6.8%
INSURANCE	229,110	250,800	384,500	53.3%	405,900	5.6%	3.1%	3.1%
SUB-TOTAL	3,063,857	3,508,100	4,003,300	14.1%	3,892,800	-2.8%	31.8%	29.88%
TOTAL	10,704,348	11,822,000	12,569,900	6.3%	13,030,100	3.7%	100.0%	100.00%

Schedule of Benefits as a Percent of Operating Revenues (excludes Debt Service, Capital Fee, Capacity Charge, Other Financing Sources, and Reserve Increase/Usage)

Benefit Expenditures	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19	Benefits as a Percent of Operating Revenue	Adopted FY21	FY21 Change from FY20	Benefits as a Percent of Operating Revenue
					\$ 13,128,126			\$ 13,789,404
RETIREMENT (CALPERS CLASSIC, PEPRA, UAL)	962,067	1,195,000	1,376,900	15.2%	10.5%	1,572,400	14.2%	11.40%
CALPERS CLASSIC	422,593	523,633	546,800	4.4%	4.17%	604,000	10.5%	4.38%
CALPERS PEPRA	57,772	73,618	105,700	43.6%	0.81%	118,100	11.7%	0.86%
CALPERS UNFUNDED ACCRUED LIABILITY - CLASSIC	:	<i>597,267</i>	723,300	21.1%	5.51%	849,000	17.4%	6.16%
CALPERS UNFUNDED ACCRUED LIABILITY - PEPRA	481,702	482	1,100	128.2%	0.01%	1,300	18.2%	0.01%
RETIREMENT - CALPERS SURVIVORS	2,683	2,700	3,600	33.3%	0.03%	3,800	5.6%	0.03%
RETIREMENT - SOCIAL SECURITY/MEDICARE	80,727	84,300	89,000	5.6%	0.68%	92,600	4.0%	0.67%
CALPERS MEDICAL - ACTIVE EMPLOYEES	856,098	983,600	968,300	-1.6%	7.38%	999,800	3.3%	7.25%
DENTAL - ACTIVE EMPLOYEES	104,582	123,100	40,500	-67.1%	0.31%	41,800	3.2%	0.30%
LIFE INSURANCE, AD&D, LTD - ACTIVE EMPLOYEES	24,861	28,700	29,400	2.4%	0.22%	30,600	4.1%	0.22%
VISION - ACTIVE EMPLOYEES	10,837	12,500	11,900	-4.8%	0.09%	12,700	6.7%	0.09%
PEHP/MARA - ACTIVE EMPLOYEES	34,575	46,300	47,500	2.6%	0.36%	49,400	4.0%	0.36%
CALPERS MEDICAL - RETIRED EMPLOYEES	179,082	204,500	216,200	5.7%	1.65%	244,700	13.2%	1.77%
ANNUAL OPEB CONTRIBUTION	111,441	43,100	43,000	-0.2%	0.33%	43,000	0.0%	0.31%
BENEFIT ADMINISTRATION FEES	5,243	7,900	18,100	129.1%	0.14%	18,500	2.2%	0.13%
TOTAL *	2,372,197	2,731,700	2,844,400	4.1%	21.67%	3,109,300	9.3%	22.55%

<sup>\*</sup> Benefit line items for uniforms and unemployment benefits are excluded from the Benefit Expenditures FY20 and FY21 table.

#### **Administration**

The Administration Department provides administrative, financial, human resources, and information technology related services for the Agency. The Board of Commissioners appoints the General Manager who is the chief administrative official responsible for the overall operations and management of the Agency.

The Department is responsible for the following functions:

- Provides administrative support to the Board of Commissioners
- Represents the Agency on legal, legislative, and regulatory matters
- Maintains intergovernmental relations with the JPA member agencies, local agencies in Marin County, and government agencies in the region
- Communicates Agency initiatives to stakeholders and the public
- Develops, implements, and manages the Agency's biennial budget, revenue plans, and financial forecast
- Manages the Agency's finances and investments
- Provides human resource services to departments and employees
- Ensures the safety of agency employees and assets through risk management programs provided by the California Sanitation Risk Management Authority
- Administers the Health & Safety Program
- Maintains the Agency's communication and information technology systems

Administration Expenditures by Category	Actual FY18	Budget FY19	Adopted FY20	Adopted FY21
CALADIEC	¢4 274 470	ć4 222 000	ć4 250 000	ć1 440 000
SALARIES	\$1,274,178	\$1,233,000	\$1,350,900	\$1,410,000
BENEFITS	2,385,487	2,758,700	2,872,800	3,137,700
SUBTOTAL	3,659,665	\$3,991,700	4,223,700	4,547,700
INSURANCE	229,110	250,800	384,500	405,900
ADMINISTRATION	436,276	491,900	490,200	538,500
SUBTOTAL	\$ 665,386	\$ 742,700	\$ 874,700	\$ 944,400
TOTAL	\$4,325,051	\$4,734,400	\$5,098,400	\$5,492,100

<b>Authorized Positions</b>	FY18	FY19	FY20	FY21
General Manager	1	1	1	1
Administrative Assistant	1	1	1	1
Treatment Plant Manager	1	1	1	1
Administrative Services Manager	1	1	1	1
Financial Analyst	1	1	1	1
Personnel and Accounting Technician	1	1	1	1
Information Systems Analyst	1	1	1	1
Safety Specialist/Manager	1	1	1	1
TOTAL	8	8	8	8

Line Item Accounts

#### **ADMINISTRATION**

Account #	Account Name	*By	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19
			1110	1113	DaugetTTZO	11011111111
<b>SALARIES &amp; E</b> 5010-010-01	Salaries, Wages & Compensation	ASM	1,267,615	1,224,400	1,300,500	6.22%
	, , , , ,	-	, - ,	, , , ==	,,	
5010-011-01	Wages - Internships	ASM		-	45,000	0.00%
5010-020-01	Overtime	GM	6,563	8,600	5,400	-37.21%
Subtotal Sala	ries & Wages		1,274,178	1,233,000	1,350,900	9.56%
5020-020-01	Retirement CalPERS - Classic	ASM	904,295	523,633	546,800	4.42%
5020-021-01	Retirement CalPERS-PEPRA	ASM	57,772	73,618	105,700	43.58%
5020-022-01	Retirement CalPERS-Survivors	ASM	2,683	2,700	3,600	33.33%
5020-023-01	Retirement-Unfunded Accrued Liability	ASM	-	597,267	723,300	21.10%
5020-024-01	Retirement-Unfunded Accrued Liability PEPRA	ASM	-	482	1,100	128.22%
5020-030-01	Retirement - SS / Medicare	ASM	80,727	84,300	89,000	5.58%
5030-010-01	Benefits-CalPERS Medical	ASM	856,098	983,600	968,300	-1.56%
5030-001-01	Benefits-Dental	ASM	104,582	123,100	40,500	-67.10%
5030-003-01	Benefits-Life Insurance, AD&D, LTD	ASM	24,861	28,700	29,400	2.44%
5030-004-01	Benefits-Vision	ASM	10,837	12,500	11,900	-4.80%
5030-015-01	Benefits-PEHP/MARA	ASM	34,575	46,300	47,500	2.59%
5030-020-01	Retired Employees Medical Benefits	ASM	179,082	204,500	216,200	5.72%
5030-025-01	Annual OPEB Contribution	ASM	111,441	43,100	43,000	-0.23%
5050-000-01	Unemployment Benefits Claimed	ASM	-	10,000	10,000	0.00%

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Analyst

AE Assistant Engineer

AA Administrative Assistant

	FY21	
Adopted	Change	
FY21	from FY20	Budget Account Description
1,359,300	4 52%	Salaries for seven full-time employees and CMSA's share of the Safety Specialist/Manager
1,333,300	1.52/0	salary. FY20 and FY21 increases are for a 3% & 4% COLA salary increase, one step
		adjustment each fiscal year, and leave balance cash-outs.
45,000	0.00%	New account established for an Agency internship program employing the equivalent of
•		1.75 full time employees.
5,700	5.56%	Authorized overtime to complete special activities or assignments.
1,410,000	4.37%	
604,000	10.46%	Employer contributions for CalPERS 2.7% @ 55 for Classic employee retirement program.
		The FY20 employer contribution rate is 13.182% for Classic employees and CalPERS
		estimates 14% for FY21.
118,100	11.73%	Employer contributions for CalPERS 2% @ 62 retirement program for PEPRA employees
		hired after January 1, 2013. The FY20 employer PEPRA contribution rate is 6.985% and
		CalPERS estimates FY21 to be 7.5%.
3,800		Annual Survivors Benefit premium.
849,000	17.38%	The Classic unfunded accrued liability is the total minimum required employer contribution
		established in the CalPERS Actuarial Valuation Report dated June 30, 2017. The Agency
		selects the annual lump sum prepayment option.
1,300	18.18%	The PEPRA unfunded accrued liability is the total minimum required employer contribution
02.500	1.0.10/	The Agency selects the annual lump sum prepayment option.
92,600		Employer's 1.45% share of Medicare for all employees.
999,800	3.25%	Budget based upon current CalPERS Kaiser family rate effective January through December
		2019, and an estimated 4% premium increase for January through June 2020 and 4%
41,800	2 210/	increase for FY21. Savings from eliminating traditional dental benefits and implementing an employer paid sel
41,000	3.21/0	insured dental benefit plan in FY20.
30,600	4.08%	Employer paid life, accidental death & dismemberment, and long-term disability insurances
12,700		Employer paid vision benefits.
49,400		PEHP: Post Employment Health Plan (also known as MARA: medical after retirement
-,		account). Employer contribution of 1.5% of base salary for 30 employees. Budget increases
		are a function of salary adjustments.
244,700	13.18%	Medical benefits for retired employees at the SF-Bay Area PERS Kaiser single rate. The
,		spouses of four former SRSD employees who transferred to CMSA also receive medical
		benefits. In FY20, one anticipated retirement and FY21 two potential retirements.
43,000	0.00%	Prefunding of the Agency's post-employment health benefit obligations for current retirees
		and employees. The prefunding amount is the annual FY19 estimated OPEB expense in the
		Agency's January 1, 2018 GASB 75 actuarial report minus retiree medical premiums.
10,000	0.00%	An allowance for unemployment benefits paid to State Employment Development
		Department (EDD) for claims filed by separated employees.

Line Item Accounts

#### **ADMINISTRATION**

ADMINIS	IKATION					
A 4 H	A No	<b>*</b> D.	Actual	Budget	Adopted	FY20 Change
Account # 5050-001-01	Account Name	*By	FY18	FY19	Budget FY20	from FY19
5050-001-01	Benefit Adminstration Fees	ASM	5,243	7,900	18,100	129.11%
5060-000-01	Uniforms	AE	13,291	17,000	18,400	8.24%
Subtotal Ben			2,385,487	2,758,700	2,872,800	4.14%
Total Salaries	s & Benefits		3,659,666	3,991,700	4,223,700	5.81%
INSURANCE						
6800-010-01	Property Insurance	ASM	49,921	55,000	67,800	23.27%
6800-020-01	General Liability & Auto Insurance	ASM	41,183	43,200	51,000	18.06%
6800-030-01	Pollution Liability Insurance	ASM	1,843	1,100	1,200	9.09%
6800-040-01	Employee/Commissioner's Bonds	ASM	1,944	2,200	3,700	68.17%
6800-050-01	Commercial Crime Insurance	ASM	625	800	800	0.00%
5040-000-01	Workers' Compensation Insurance	ASM	133,593	148,500	260,000	75.08%
Subtotal Insu	ırance		229,110	250,800	384,500	53.31%
GENERAL AD	MINISTRATIVE					
6700-010-01	Meetings/Training	GM	4,296	5,200	4,000	-23.08%
6700-020-01	Conferences	GM	13,676	25,000	25,000	0.00%
6710-010-01	Commissioners Meeting Fees & Conferences	GM	7,900	10,000	18,900	89.00%
6805-000-01	Professional Affiliation Memberships	ASM	5,705	4,400	6,000	36.36%
6805-001-01	BACWA Membership	GM	8,040	8,100	8,400	3.70%
6805-011-01	BACWWE Education Program	GM	8,000	8,000	8,000	0.00%
6805-002-01	NBWA Membership	GM	8,436	6,000	5,600	-6.67%
6805-003-01	CASA Membership	GM	16,068	16,100	16,600	3.11%
1	·			•	•	

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Analyst

AE Assistant Engineer

AA Administrative Assistant

	FY21	
Adopted	Change	
FY21	from FY20	Budget Account Description
18,500		Administrative fees charged for EDIS dental, CalPERS medical, PEHP post employment
10,500	2.21/0	health, and NAVIA Flex 125 plans.
18,400	0.00%	Contracted service to provide uniforms, jackets, and miscellaneous related work clothing for
-,		staff, and towel and floor mat cleaning services.
3,137,700	9.22%	
4,547,700	7.67%	
73,900	9.00%	Annual property insurance coverage from the CSRMA for all Agency buildings and
-,		structures.
53,000	3.92%	CSRMA pooled insurance coverage for general, automobile, and error and omission liability
,		premiums.
1,300	8.33%	CSRMA pollution liability insurance for cleanup costs resulting from underground fuel
,		storage tank system leaks and releases and other pollution caused losses.
3,900	5.41%	CSRMA public official bonds for four Agency employees and one commissioner who are
ŕ		authorized to sign Agency checks, and includes employees who handle agency funds such as
		petty cash.
800	0.00%	Coverage for dishonest public employees, loss of money orders, depositor's forgery, or
		counterfeit currency. It is intended to cover all employees not covered under the
		employee/public official bonds.
273,000	5.00%	CSRMA workers' compensation (WC) insurance for Agency employees.
405,900	5.57%	
4,000	0.00%	Expenses associated with staff travel, training, and attendance at single-day professional
		meetings and seminars. Includes allowed expenses pursuant to the Agency's travel expense
		reimbursement policy.
25,000	0.00%	Expenses associated with staff attendance at multi-day professional conferences, seminars,
		and training events outlined in the Agency's travel expense reimbursement policy.
18,900	0.00%	Pursuant to Commission compensation policy, CMSA Commissioners receive \$225 per day of
		service.
6,000		Professional memberships, license, and registration requirements for department staff.
8,600	2.38%	Annual membership dues to the Bay Area Clean Water Agencies (BACWA). BACWA is
		comprised of 5 members and over 25 associate members, such as CMSA.
8,000	0.00%	Agency sponsorship for the Bay Area Consortium for Water & Wastewater Education
		Program. The consortium is comprised of 20 partner agencies.
5,600	0.00%	Annual membership dues to the North Bay Watershed Association (NBWA), which is
		comprised of 23 governmental agencies from the North San Pablo Bay watershed.
16,600	0.00%	Annual membership dues to the California Association of Sanitation Agencies (CASA).

Line Item Accounts

### **ADMINISTRATION**

			Actual	Budget	Adopted	FY20 Change
Account #	Account Name	*By	FY18	FY19	Budget FY20	from FY19
6805-004-01	NACWA Membership	GM	10,400	11,000	11,000	0.00%
6805-005-01	Bay Area Biosolids Coalition	GM	3,250	11,000	7,000	-36.36%
6815-000-01	Office Expenses	AA	44,804	35,000	35,000	0.00%
6815-001-01	Safety Supplies	OS	27,372	27,800	27,800	0.00%
6815-002-01	Information Technology Equipment &	ISA	23,565	37,200	37,200	0.00%
6820-000-01	Printing & Publications	AA	2,214	2,000	4,000	100.00%
6830-001-01	General Professional Services	GM	47,974	71,000	71,000	0.00%
6830-002-01	Regulatory Services	GM	47,713	10,000	10,000	0.00%
6830-005-01	Finance & Audit Services	ASM	25,537	28,000	28,700	2.50%
6830-010-01	Labor Relations Consulting	GM	9,384	9,800	10,100	3.06%
6830-015-01	Legal Services	GM	33,530	30,000	30,000	0.00%
6830-016-01	Health & Safety Program, CMSA Share	ASM	35,400	38,000	38,500	1.32%
6830-017-01	Outside Safety Training Services	ASM	14,198	5,600	9,100	62.50%
6830-025-01	Employee Assistance Services	AA	2,625	4,500	4,700	4.44%
6830-060-01	Employee Health Maintenance Services	AA	2,165	3,000	3,500	16.67%
6840-010-01	Internet & Telephone Service	ISA	26,291	28,700	38,500	34.15%
6855-000-01	Postage/Shipping	AA	2,878	2,500	2,500	0.00%
6859-000-01	Bank Fees & Analysis Charges	ASM	1,391	1,500	1,500	0.00%
6859-000-10	Bank Fees - Revenue Bond	ASM	4,543	2,500	2,600	4.00%

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Analyst

AE Assistant Engineer

AA Administrative Assistant

Adamtad	FY21	
Adopted	Change	Budget Assesset Description
<b>FY21</b> 11,000	from FY20	Budget Account Description  Annual membership dues to the National Association of Clean Water Agencies (NACWA).
11,000	0.00%	NACWA represents the wastewater industry nationwide on regulatory and legislative issues.
7,000	0.00%	Agency membership for Bay Area Biosolids-to-Energy Coalition, which is comprised of 19
7,000	0.0070	regional wastewater agencies.
36,600	4 57%	Costs associated with the Agency's administrative operations, including office supplies,
30,000	4.5770	copier leases, office furniture, office equipment service and repairs, and other related
		expenses.
27,800	0.00%	Annual expenses for safety training, first aid and emergency supplies, defibrillator and fire
,		extinguisher testing, various one-time purchases, and safety assessment expenses to correct
		workplace hazards.
38,700	4.03%	Expenses related to Information Technology equipment and software licenses and upgrades.
2,500	-37.50%	Expenses associated with newspaper subscriptions, publication of notices, and copy services
		at local print shops.
71,000	0.00%	Expenses for general governmental and human resource services such as recruitments,
		background reference checks, and employment law staff training and development.
10,000		Consultation and advice on regulatory compliance and permit issues.
51,700	80.14%	Expenses for professional services related to the financial operations of the Agency: annual
		audit of financial statements; annual maintenance fee for new financial software license
		renewal and financial software support; GFOA Award program fees; actuarial, financial and
40.500	2.000/	operational analyses.
10,500		IDEA annual fee for labor relations and negotiations services.
30,000 39,400		Expenses for general, employment law, and contruction/contract legal services.  This account represents the Agency's share (60.25%) of the Health & Safety Program non-
39,400	2.34/0	salary costs. The remaining 39.75% of the Health & Safety Program budget is included in
		Cooperative Agreements Expenses. The budget also includes CMSA's equally shared cost of
		the NSD's .25 FTE equivalent Administrative/Risk Services & Safety Officer.
5,200	-42.86%	Training expenses for required safety programs that include hearing tests, CPR/first aid, fire
		extinguisher, incident command, traffic control, defensive driving, and many other Cal/OSHA
		programs that facilitate a safe work environment.
4,900	4.26%	Confidential professional counseling provided to employees. The fee is increased annually.
3,500	0.00%	Expense for workplace safety related physicals, pre-employment exams, and urgent care at
		Kaiser Hospital and Medical Center of Marin.
39,300	2.08%	Expenses associated with telephone, internet and email services, cell phones, portable
		radios, and data plan expenses.
2,500		Postage, delivery, and overnight shipping expense.
1,500	0.00%	Bank fees and investment expenses for California Asset Management Program and
		Westamerica Bank accounts, and includes finance charges and late payment fees.
2,700	3.85%	Bank fees for the Refunding Revenue Bonds Series 2015.

Line Item Accounts

#### **ADMINISTRATION**

	TRATION					FY20
			Actual	Budget	Adopted	Change
Account #	Account Name	*By	FY18	FY19	<b>Budget FY20</b>	from FY19
6860-000-01	Trade Discounts	ASM	(1,079)	-	-	0.00%
6890-010-01	Contingency	GM	-	50,000	25,000	-50.00%
6990-000-01	Other Non-Operating Expenses	ASM	-	-	-	0.00%
Subtotal Gen	eral & Administrative		436,276	491,900	490,200	-0.35%
Subtotal (ex	cluding Salary and Benefits)		665,386	742,700	874,700	17.77%
Total Admini	stration		4,325,052	4,734,400	5,098,400	7.69%

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Analyst

AE Assistant Engineer

AA Administrative Assistant

Adopted FY21	FY21 Change from FY20	Budget Account Description
-	0.00%	Account used to record vendor payment discounts received and taken for paying bills within
		payment terms.
50,000	100.00%	Funds available for transfer to other operating budget accounts for unplanned and
		unanticipated activities. Transfers from this account require GM approval.
-	0.00%	No budget. Account used for accounting adjustments such as general ledger account
		reconciliations, prior year audit adjustments, and expenditures associated with prior year
		activities such as unexpected bills received for prior fiscal year goods and services as well as
		service charge refunds.
538,500	9.85%	
944,400	7.97%	
5,492,100	7.72%	

#### **Maintenance**

The Maintenance Department is responsible for maintaining Agency assets which include buildings, grounds, vehicles, and treatment plant specific facilities and associated equipment. Certified mechanical technicians and utility workers perform a wide variety of preventative and corrective maintenance and repair work on all Agency assets. The Electrical and Instrumentation group is responsible for maintaining the Agency's process control systems, electrical and instrumentation equipment, and various electro-mechanical systems, and supports maintenance with communication systems and information technology infrastructure. The department utilizes an enterprise asset management system for scheduling corrective and preventive maintenance, to manage its fixed assets, and to track repairs and maintenance activities and their associated costs.

Under contractual service agreements with the California Department of Corrections (San Quentin), County of Marin, and Sanitary District #2 of Marin, the department maintains collection system assets such as pump stations, force mains, and gravity sewers.

Maintenance Expenditures by Category	Actual FY18	Budget FY19	Adopted FY20	Adopted FY21
SALARIES*	\$1,535,100	\$1,534,300	\$1,611,400	\$1,693,700
SUBTOTAL	\$1,535,100	\$1,534,300	\$1,611,400	\$1,693,700
LUBRICANTS, PROPANE, OTHER	5,191	6,000	6,000	6,000
MAINTENANCE & REPAIRS	357,231	357,500	358,700	371,200
ADMINISTRATION	19,930	21,100	22,200	22,700
SUBTOTAL	\$ 382,352	\$ 384,600	\$ 386,900	\$ 399,900
TOTAL	\$1,917,452	\$1,918,900	\$1,998,300	\$2,093,600

<sup>\*</sup>Benefits are included in the Administration Department budget

Authorized Positions	FY18	FY19	FY20	FY21	
Maintenance Supervisor	1	1	1	1	
Assistant Maintenance Supervisor	1	1	1	1	
Maintenance Lead	1	1	2	2	
Maintenance Repair*	1	-	-	-	
Mechanical Technician (I-III)	4	5	4	4	
Utility Worker	3	3	3	3	
Assistant Maintenance Supervisor-(E/I)**	1	-	-	-	
Electrical/Instrumentation Tech (I-III)	2	3	3	3	
TOTAL	14	14	14	14	

<sup>\*</sup> The Maintenance Repair position was replaced with an additional Mechanical Technician position

<sup>\*\*</sup> The Assistant Maintenance Supervisor-(E/I) retired in FY18 and the position was replaced with an additional Electrical/Instrumentation Tech

Line Item Accounts

### **MAINTENANCE**

IVIAIIVILI						
Account #	Account Name	*By	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19
SALARIES & \	NAGES					
5010-010-03	Salaries, Wages & Compensation	ASM	1,472,907	1,476,300	1,556,000	5.40%
5010-103-10	Transfer to CIP	ASM	(18,679)	(33,300)	(34,300)	3.00%
5010-020-03	Overtime	TPM	27,512	34,400	36,400	5.81%
5010-021-03	Stand-by Duty	TPM	53,361	56,900	53,300	-6.33%
Subtotal Sala	ries & Wages		1,535,100	1,534,300	1,611,400	5.03%
MAINTENAN	CE & REPAIRS (M&R)					
6400-030-03	Lubricants, Propane, Other	MS	5,191	6,000	6,000	0.00%
6500-000-03	Utility Supplies	MS	7,286	7,000	7,500	7.14%
6510-001-03	Outside Services & Parts	TPM	29,100	30,000	30,000	0.00%
6510-004-03	Fleet Maintenance	MS	18,698	15,000	15,000	0.00%
6510-007-03	Hazardous Waste Disposal Service	MS	26,782	25,000	30,000	20.00%
6510-008-03	Facilities Maintenance	MS	19,683	22,000	24,000	9.09%
6510-009-03	Electrical Equipment	EIT	23,426	23,000	28,000	21.74%
6510-010-03	Plant Pumps	MS	18,512	25,000	25,000	0.00%
6510-011-03	Process Tank Maintenance	MS	12,301	20,000	20,000	0.00%
6510-012-03	Centrifuge Maintenance	MS	14,697	10,000	10,000	0.00%

ASM Administrative Services Manager

TPM Treatment Plant Manager

MS Maintenance Supervisor

EIT Electrical Instrumentation Technician

Adopted	FY21 Change	
FY21	from FY20	Budget Account Description
1,636,100	5.15%	Salaries for 14 full-time employees. The increase in wages in FY20 includes a 3% COLA salary increase for represented and unrepresented employees, a 2.5% salary adjustment for 6 represented employees, eight step or in-class promotion adjustments and leave balance cash-outs. FY21 includes a 4% COLA increase and six step or in-class adjustments.
(35,700)	4.08%	Transfer of salary expenses for staff assigned to CIP funded projects.
37,900	4.12%	Authorized overtime to complete unexpected maintenance activities or assignments that require work after an employee's regularly scheduled shift. Budget increase due to COLA salary adjustments.
55,400	3.94%	24/7 Stand-by duty for qualified maintenance staff to respond to emergency repair work and equipment failures. Employees are paid to remain fit for duty and to respond within one hour. Sanitary District #2 funds one half of this expense. FY20 & FY21 increase is function of salary and step increases.
1,693,700	5.11%	
6,000	0.00%	Lubricants used for facility assets and equipment (cogeneration and stand-by power systems excluded), propane for the forklift, and welding and calibration gases.
7,900	5.33%	Janitorial and general facility maintenance cleaning supplies.
31,400		Service repair costs performed by outside providers for machining, fabrication, vacuum services, specialty repair work, and related parts, equipment, and supplies.
15,700	4.67%	This account is for preventative, predictive, and corrective maintenance on the Agency's fleet vehicles, and includes purchases of batteries, oil, tires, and other consummables. The Agency's fleet consists of 10 vehicles, two forklifts, a skid steer loader, 15 electric carts, and 7 bicycles.
31,400	4.67%	Safe disposal of wastes such as oils, greases, oil and air filters, coolants, paints, solvents, light bulbs, batteries, air purification medias (siloxane, hydrogen sulfide, and activated carbon), and for the disposal of laboratory generated hazardous wastes.
25,100	4.58%	Planned preventive and corrective repairs to maintain non-process specific facility structures such as roof and gutter systems, doors and door hardware, flooring, and painted surfaces. This account also includes funds for facility pest control services.
29,300		Allowance for procurement of routine electrical equipment such as conduit, wiring, electrical connectors, fittings, consumable electrical supplies, and facility lighting (light bulbs, tubes, LED lights).
26,200	4.80%	Allowance for routine consumable parts and equipment such as impellors, gasket material, and volutes.
20,900	4.50%	Allowance for routine consumable parts and equipment for facility process tanks and the primary heat exchanger (excludes heat exchangers utilized by the cogeneration system).
10,500	5.00%	Consumable items for annual preventive and corrective maintenance for three centrifuges and their system components.

Line Item Accounts

### **MAINTENANCE**

			Actual	Budget	Adopted	FY20 Change
Account #	Account Name	*Ву	FY18	FY19	Budget FY20	from FY19
6510-013-03	Process (Filter) Media Replacement	MS	19,365	25,000	26,200	4.80%
6510-014-03	Organic Waste Receiving Facility (OWRF)	MS	58,104	40,000	40,000	0.00%
6510-015-03	Boilers and Hot-water Systems	MS	8,165	8,000	8,000	0.00%
6510-016-03	Effluent Pump Station	MS	5,852	5,000	5,000	0.00%
6510-020-03	Cogen/Emergency Generator Maintenance	MS	49,884	50,000	45,000	-10.00%
6520-000-03	Groundskeeping	MS	34,222	40,000	32,000	-20.00%
6530-000-03	Small Tools & Equipment	MS	11,152	12,500	13,000	4.00%
Subtotal Mai	ntenance & Repairs		362,422	363,500	364,700	0.33%
GENERAL & A	DMINISTRATIVE					
6700-010-03	Meetings/Training	TPM	5,596	4,000	4,500	12.50%
6700-020-03	Conferences	TPM	10,692	12,500	12,500	0.00%
6805-000-03	Professional Affiliation Memberships	TPM	3,642	4,400	5,000	13.64%
6830-030-03	Underground Service Alert (USA)	MS	-	200	200	0.00%
Subtotal Gen	eral & Administrative		19,930	21,100	22,200	5.21%
Subtotal (ex	cluding Salary and Benefits)		382,352	384,600	386,900	0.60%
Total Mainte	nance		1,917,452	1,918,900	1,998,300	4.14%

ASM Administrative Services Manager

TPM Treatment Plant Manager

MS Maintenance Supervisor

EIT Electrical Instrumentation Technician

	FY21	
Adopted	Change	
FY21	from FY20	Budget Account Description
27,300	4.20%	Biogas and air purification media for facility equipment. Budget is for the purchase of media
		for one sulftreat vessel, one siloxane filter, and one activated carbon odor scrubber (OWRF
		or RDT's) replacement per year.
41,800	4.50%	Allowance for consumable items required for maintaining the OWRF. This budget assumes
		performing two complete mixing pump impellor/cutter bar changeouts, purchasing one set
		of paddle finisher screens, six spare hoses, glycerin, rock trap grinder parts, and other critical
		spare inventory items.
8,400	5.00%	Consumable items required for maintaining two dual fueled hot water boilers and the hot
		water recirculation systems. Budget includes annual specialized boiler system inspection
		work to examine the brick and burner assemblies, the fuel regulating systems, and
		associated pumps and piping.
5,300	6.00%	Allowance for parts and consumable items within the Effluent Pump Station and its above
		ground diesel tank. Includes pump and engine parts, driveshafts, fuel conveyance, diesel
		storage tanks, motor controls, and fire protection systems.
45,000	0.00%	Routine parts and equipment for scheduled cogeneration system and standby diesel
		generator maintenance. The budget assumes four 2,000 hour maintenance procedures on
		the cogeneration system and one annual maintenance procedure on the emergency standby
		diesel generator.
32,000	0.00%	Facility landscaping services and supplies to maintain the Agency's property. Services include
		fire-defensible space maintenance, weed abatement, and clean-up project work.
13,000	0.00%	Purchase and repair of hand, power, and pneumatic tools utilized in the day-to-day
		maintenance of assets and equipment.
377,200	3.43%	
4,500	0.00%	Expenses associated with attendance at single-day meetings, seminars, technical
,		certification courses, and professional development. Includes allowed expenses pursuant to
		the Agency's expense reimbursement policy.
13,000	4.00%	Expenses associated with multi-day professional conferences, seminars, and training events
•		outlined in the Agency's travel and expense reimbursement policy.
5,000	0.00%	Professional memberships and annual certification renewal fees for 14 department
-		employees.
200	0.00%	Annual Underground Service Alerts fee to identify utility locations prior to any type of
		digging or excavation work.
22,700	2.25%	
399,900	3.36%	
2,093,600	4.77%	

#### **Operations**

The Operations Department performs various activities essential to the day-to-day operation and process control of the Agency's National Clean Water Agency (NACWA) recognized Class V regional wastewater treatment facility. The treatment, reuse, and disposal of wastewater and biosolids is in full compliance with state and federal National Pollutant Discharge Elimination System (NPDES) permit requirements.

The department is responsible for the following functions:

- Monitor and adjust treatment processes
- Ensure facilities are operated to achieve and exceed permit compliance
- Monitor local agency collection system assets
- Order treatment chemicals and maintain inventories
- Conduct pilot testing and studies to improve and/or optimize treatment processes
- Monitor and operate systems to control the generation of wastewater odors
- Track the performance of all treatment and energy generation systems
- Operate an organic waste receiving facility
- Operate a power generation system
- Oversee and operate the Agency's recycled water truck fill station

Operations Expenditures by Category	Actual FY18	Budget FY19	Adopted FY20	Adopted FY21
SALARIES*	\$1,579,190	S1,734,400	\$1,645,200	\$1,727,700
SUBTOTAL	\$1,579,190	S1,734,400	\$1,645,200	\$1,727,700
CHEMICALS & FUELS	981,193	1,126,900	1,289,800	1,261,800
UTILITIES	284,900	317,800	486,600	390,400
ADMINISTRATION	47,586	64,000	68,800	70,300
SUBTOTAL	\$1,313,679	\$1,508,700	\$1,845,200	\$1,722,500
TOTAL	\$2,892,869	S3,243,100	\$3,490,400	\$3,450,200

<sup>\*</sup>Benefits are included in the Administration Department budget

<b>Authorized Positions</b>	FY18	FY19	FY20	FY21
Operations Supervisors	2	2	1	1
Assistant Operations Supervisor*	-	1	1	1
Lead Operators	2	1	1	1
Operators (Trainee, I-III)	9	9	10	10
TOTAL	13	13	13	13

<sup>\*</sup> The Board approved the Assistant Operations Supervisor (AOS) position in FY18 to allow implementation of the Operations Department's succession plan.

Line Item Accounts

### **OPERATIONS**

OPERATIO	5113					
Account #	Account Name	*By	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19
SALARIES & V	<u>VAGES</u>					
5010-010-04	Salaries, Wages & Compensation	ASM	1,486,310	1,613,600	1,531,200	-5.11%
5010-104-10	Transfer to CIP	ASM	-	(16,700)	(17,300)	3.59%
5010-020-04	Overtime	OS	92,881	126,000	129,200	2.54%
5010-022-04	OPS Wet Weather Stand-by Duty	TPM	-	11,500	2,100	-81.74%
Subtotal Sala	ries & Wages		1,579,190	1,734,400	1,645,200	-5.14%
CHEMICALS 8	& FUEL					
6100-010-04	Ferric Chloride	OS	89,488	81,500	131,600	61.47%
6100-020-04	Polymer-Cationic	OS	116,344	110,000	167,700	52.45%
6100-030-04	Odor Control	OS	12,156	15,000	18,000	20.00%
6100-040-04	Calcium Nitrate	OS	190,585	200,000	220,500	10.25%
6100-050-04	Hydrogen Peroxide	OS	240,415	306,000	266,000	-13.07%
6100-060-04	Sodium Hypochlorite	OS	150,083	204,400	229,000	12.04%
6100-070-04	Sodium Bisulfite	OS	172,314	195,000	242,000	24.10%
6400-020-04	Gasoline, Diesel, Oil, & Fuel	OS	9,808	15,000	15,000	0.00%
Subtotal Che	micals & Fuel		981,193	1,126,900	1,289,800	14.46%

ASM Administrative Services Manager

AOS Assistant Operations Supervisor

OS Operations Supervisor

TPM Treatment Plant Manager

Adopted FY21	FY21 Change from FY20	Budget Account Description
1,605,800	4.87%	Salaries for 13 full-time employees. Includes a FY20 COLA increase of 3% for represented and unrepresented employees, a 2.5% compensation adjustment for represented staff, four step adjustments, and leave balance cash-outs. FY21 increase for 4% COLA and four step adjustments.
(18,000)	4 05%	Transfer of salary expenses for staff assigned to CIP funded projects
137,700		Authorized overtime to ensure facilities are properly staffed 24 hours/day and to complete specified activities or assignments.
2,200	4.76%	24/7 stand-by duty provided by qualified operations staff during the wet weather season (November-April). Employees are paid to remain fit for duty and must respond within one hour after being called in for emergency situations.
1,727,700	5.01%	
131,600	0.00%	Ferric chloride is used to improve settling in the primary clarifiers during storm related flow events, inhibits hydrogen sulfide production in the digesters, reduces struvite formations in pipelines, and is used as a coagulant in the biosolids dewatering process.
115,000	-31.43%	Polymer is added to centrifuge feed sludge to enhance the efficiency of solids removal, and is also injected into the flow stream for sludge thickening units to increase solids capture which reduces hydraulic loading in the digesters. CMSA has used approximately 2.5 loads of polymer per year for sludge thickening dewatering operations. The increase in this line in FY20 is due to a 4.5% contract increase and the procurement of three loads of polymer, and decrease in FY21 when the Agency will purchase two loads.
18,000	0.00%	A chemical agent used to mask odorous compounds produced by some wastewater processes. Odorants are delivered in 55 gallon barrels.
220,500	0.00%	Calcium nitrate solution is the first of a two-phase odor control system used in the collection system upstream of the wastewater treatment plant. Nitrate injection in strategic locations inhibits hydrogen sulfide formation.
279,300	5.00%	Hydrogen peroxide is the second phase of the odor control system. It is injected into the Ross Valley and San Rafael interceptors upstream of the headworks.
240,400	4.98%	Sodium hypochlorite is is used for effluent and recycled water disinfection, and in three treatment plant odor control scrubbers.
242,000	0.00%	Sodium bisulfite is used to neutralize the chlorine residual in the effluent prior to its discharge into the San Francisco Bay.
15,000	0.00%	Gasoline for vehicles and landscaping equipment, and diesel for emergency generator and the effluent pump station pumps.
1,261,800	-2.17%	

Line Item Accounts

### **OPERATIONS**

<u> </u>						
Account #	Account Name	*By	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19
UTILITIES						
6835-010-04	Natural Gas	OS	33,828	37,300	40,400	8.31%
6835-020-04	Electricity	OS	179,863	201,000	329,300	63.83%
6835-030-04	Water	AOS	9,758	9,500	40,300	324.21%
6835-040-04	Garbage	AOS	61,450	70,000	76,600	9.43%
Subtotal Utilities			284,900	317,800	486,600	53.12%
GENEDAL &	ADMINISTRATIVE					
6210-000-04	Operations - General	TPM	4,622	6,000	6,000	0.00%
6215-000-04	Process Control Consumable Supplies	AOS	-	10,000	10,000	0.00%
6700-010-04	Meetings/Training	TPM	1,378	5,000	4,500	-10.00%
6700-020-04	Conferences	TPM	5,329	4,500	5,000	11.11%
6805-000-04	Professional Affiliation Memberships	TPM	2,799	5,000	4,800	-4.00%
6810-010-04	BAAQMD Permit	TPM	16,505	18,500	18,500	0.00%
6830-001-04	Professional Services: Process Control	TPM	16,953	15,000	20,000	33.33%
Subtotal Gen	eral & Administrative		47,586	64,000	68,800	7.50%
Subtotal (ex	ccluding Salary and Benefits)		1,313,678	1,508,700	1,845,200	22.30%
Total Operat	ions		2,892,869	3,243,100	3,490,400	7.63%

### \*Position Code

ASM Administrative Services Manager

AOS Assistant Operations Supervisor

OS Operations Supervisor

TPM Treatment Plant Manager

1		
	FY21	
Adopted	Change	
FY21	from FY20	Budget Account Description
40,400	0.00%	Supplemental fuel for the cogeneration system, and fuel for the boilers when the cogen
		system is offline.
229,300	-30.37%	Electricity to supplement the cogeneration system output and to supply power when the
		cogenerator is offline for maintenance. The cogenerator is expected to run on electricity for
		several months during FY20.
40,700	0.99%	Potable water for CMSA and the San Quentin junction box odor control facility. The Marin
		Municipal Water District has announced a series of 4% rate increases over the next several
		years and beginning FY20 is expected to approve an annual \$30.3K capital maintenance fee.
80,000	4.44%	Solid waste disposal for garbage, green waste, recycling, and debris box disposal of
		headworks screenings, grit, and non-recyclable wastes.
390,400	-19.77%	
6,000	0.00%	Small tools, equipment, parts, and other miscellaneous supplies.
10,500	5.00%	Chemical reagents to verify and/or determine the concentration of chlorine in treated
		wastewater, assist in field instrument calibration, determine peroxide concentrations in
		wastewater, measure pH, and measure sulfide levels in biogas.
4,500	0.00%	Expenses associated with attendance at single-day professional meetings, seminars, and
		certification trainings. Includes allowed expenses pursuant to the Agency's expense
		reimbursement policy.
5,000	0.00%	Expenses associated with multi-day professional conferences, seminars, and training events
		outlined in the Agency's travel and expense reimbursement policy.
4,800	0.00%	Professional memberships and certification renewal requirements for licensed operators.
		The budget includes 13 annual CWEA membership renewals and 17 operator certification
		renewals (13 Operators and 3 additional licensed staff members).
18,500	0.00%	Bay Area Air Quality Management District (BAAQMD) permit fees for the cogeneration
		engine, emergency engine, five effluent pump station engines, and fuel dispensers.
21,000	5.00%	Professional wastewater consulting services for evaluation of process control options, advice
		on process control issues, training staff on process analysis, and conducting special studies.
70,300	2.18%	
1,722,500	-6.65%	
1,7 22,500	0.03/0	
3,450,200	-1.15%	

#### **Technical Services**

The Technical Services Department provides full engineering support for the Agency and is responsible for all regulatory compliance activities required by the Agency's National Pollutant Discharge Elimination System (NPDES) permit. Technical Services is responsible for the following functions:

- Design small maintenance and capital projects, and oversee the design of larger projects outsourced to engineering consulting firms.
- Manage construction contracts and associated engineering construction records.
- Assist with operational studies, and energy efficiency and greenhouse gas emission evaluations.
- Negotiate and administer the Agency's service and commodity contracts for employee uniforms, biosolids hauling and reuse, natural gas supply, and procurement of chemicals used in the wastewater and biosolids treatment processes.
- Chair the Agency's Capital Improvement Planning Committee which develops, implements, and manages the Agency's 10-year Capital Improvement Program (CIP) and prepares the biennial CIP budget with the 10-year forecast.
- Assist with Underground Service Alert (U.S.A) utility locating services.
- Regulate commercial and industrial disposal of wastewater into the collection and treatment systems.
- Operate an accredited environmental laboratory that performs the majority of routine testing required in the Agency's NPDES permit and oversees specialized outside analytical testing services. In the next fiscal year, the laboratory will achieve compliance with a new comprehensive national laboratory accreditation program.
- Provide source control program administration services under contract with wastewater and other local agencies in Marin County.
- Lead the Wastewater Treatment Agencies of Marin County Public Education Program.
- Leading the planning and execution for a detailed digester organic loading pilot study at CMSA's facility.

Technical Services Expenditures by Category	Actual FY18	Budget FY19	Adopted FY20	Adopted FY21
SALARIES*	\$ 866,534	\$1,053,500	\$1,086,300	\$1,168,200
SUBTOTAL	\$ 866,534	\$1,053,500	\$1,086,300	\$1,168,200
BIOSOLIDS DISPOSAL	381,057	400,300	418,500	435,300
PERMIT TESTING & MONITORING	149,815	148,800	143,800	142,500
ADMINISTRATION	171,570	323,000	334,200	248,200
SUBTOTAL	\$ 702,442	\$ 872,100	\$ 896,500	\$ 826,000
TOTAL	\$1,568,976	\$1,925,600	\$1,982,800	\$1,994,200

<sup>\*</sup>Benefits are included in the Administration Department budget

<b>Authorized Positions</b>	FY18	FY19	FY20	FY21
Technical Services Manager	1	1	1	1
Associate Engineer	-	1	1	1
Assistant Engineer	2	1	1	1
Regulatory Compliance Manager*	-	-	1	1
Laboratory Director**	1	1	-	-
Environmental Laboratory Administrator	1	1	1	1
Laboratory Analyst***	-	1	1	1
Environmental Services Analyst (I-II)	3	3	3	3
TOTAL	8	9	9	9

<sup>\*</sup> The Regulatory Compliance Manager classification was created in December 2018. The position, which has additional responsibilities of managing the Agency's various source control programs, was created to replace the Laboratory Director position.

<sup>\*\*</sup> The Laboratory Director classification was discontinued in December 2018.

<sup>\*\*\*</sup> To support the administration of environmental laboratory accreditation standards, the Board authorized a new Laboratory Analyst position during FY18.

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### Central Marin Sanitation Agency Adopted FY20 & FY21 Operating Budget

Line Item Accounts

### **TECHNICAL SERVICES**

	AL SERVICES					
Account #	Account Name	*By	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19
SALARY & W	<u>AGES</u>					
5010-010-05	Salaries, Wages & Compensation	ASM	901,723	1,178,700	1,209,600	2.62%
5010-105-10	Transfer to CIP	GM	(36,199)	(135,200)	(138,000)	2.07%
5010-020-05	Overtime	TSM	-	7,500	8,200	9.33%
5010-022-02	Wet Weather Stand-by Duty	TSM	1,010	2,500	6,500	160.00%
Subtotal Sala	ary & Wages		866,534	1,053,500	1,086,300	3.11%
	1ANAGEMENT		· ·		<i>,</i>	
6200-010-02	Biosolid Reuse Fees	TSM	274,667	283,900	296,000	4.26%
6200-050-02	Biosolids Hauling	TSM	106,389	116,400	122,500	5.24%
Subtotal Bios	solids Management		381,057	400,300	418,500	4.55%
DERMIT TEST	ING & MONITORING					
6300-000-02	Lab Supplies	LD	85,084	57,000	69,400	21.75%
6310-030-02	Biosolids Monitoring: Contract Lab Services	LD	9,009	9,500	11,000	15.79%
6320-010-02	NPDES Permit Sampling & Testing	LD	40,494	65,200	45,800	-29.75%
6320-020-02	Pretreatment Sampling	TSM	11,894	14,300	14,300	0.00%
6330-010-02	Underground Tank Testing: Overfill Containment	TSM	2,333	2,800	3,300	17.86%
6330-020-02	Underground Tank Testing: Secondary Containment	TSM	1,001	-	-	100.00%
Subtotal Per	mit Testing & Monitoring		149,815	148,800	143,800	-3.36%

#### \*Position Code

GM General Manager

ASM Administrative Services Manager TSM Technical Services Manager

RCM Regulatory Compliance Manager

AE Assistant Engineer

Adopted	FY21 Change	
FY21	from FY20	Budget Account Description
	11011111120	Budget Account Description
1,293,800	6.96%	Salaries for nine full-time employees and includes a 3% COLA salary increase of for
		employees, 5-step adjustments, and leave balance cash-outs. FY21 4% COLA and 5 step
		adjustments.
(141,000)	2.17%	Transfer of salary expenses for staff assigned to CIP funded projects (.61 FTE).
8,600	4.88%	Authorized overtime to complete special activities or assignments including activities
		supporting the public education program.
6,800	4.62%	Stand-by duty is assigned to a laboratory analyst during the wet weather event season
		November through April 30th when there is a reasonable potential that a blending event
		may occur during the weekend.
1,168,200	7.54%	
307,900	4.02%	Biosolids tipping fees for beneficial reuse at Redwood Landfill for alternative daily cover,
307,900	4.02/0	, , ,
		land application sites in Solano county for soil augmentation, and at the Lystek facility for
127,400	4.00%	further processing into a fertilizer.  Approximately one load per day of biosolids is hauled from CMSA to one of the biosolids
127,400	4.00%	reuse sites.
435,300	4.01%	reuse sites.
433,300	4.01/0	
65,100	-6.20%	Laboratory and source control program supplies including all chemicals, glassware, reagents,
		consumables, disposable containers, filters, bioassay, and other supplies.
11,400	3.64%	Laboratory analysis cost associated with biosolids monthly and semiannual regulatory
		monitoring requirements.
47,200	3.06%	Outsourced laboratory analysis cost associated with NPDES permit compliance orders.
		Includes monthly, quarterly, semiannual, annual, and permit period monitoring
		requirements, including new nutrient monitoring requirements in the 2019 Nutrient
		Watershed permit.
14,800	3.50%	Cost of outsourced laboratory analysis of source control samples and monitoring industrial
		waste.
2,800	-15.15%	Annual contractor testing and monitoring of underground gasoline and diesel tank over-fill
		and secondary containment.
1,200	0.00%	Testing of underground tank secondary containment every three years as required by state
		regulation. Testing will be scheduled during FY21, the last testing occurred in FY18.
142,500	-0.90%	

### Central Marin Sanitation Agency Adopted FY20 & FY21 Operating Budget

Line Item Accounts

### **TECHNICAL SERVICES**

Account #	Account Name	*By	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19
GENERAL S. /	ADMINISTRATIVE	-				
6510-008-05	Lab Facilities Maintenance	LD	-	-	5,500	0.00%
6700-010-05	Meetings/Training	TSM	3,875	4,500	3,000	-33.33%
6700-020-05	Conferences	TSM	7,301	15,800	21,000	32.91%
6805-000-05	Professional Affiliation Memberships	TSM	3,188	3,700	3,700	0.00%
6810-000-02	Annual NPDES Permit	TSM	48,522	55,000	55,000	0.00%
6810-040-02	ELAP Certification	TSM	6,996	11,000	13,000	18.18%
6810-050-02	Regional Monitoring Program SFEI	TSM	27,996	30,000	46,000	53.33%
6810-051-02	Clean Bay Collaborative Fees	TSM	24,555	25,500	25,500	0.00%
6810-060-02	CUPA Fees	TSM	4,697	4,900	5,400	10.21%
6810-070-02	Stormwater Annual Permit	TSM	1,400	1,800	1,500	-16.67%
6810-080-02	BAPPG Membership	TSM	838	1,800	-	-100.00%
6815-002-02	Source Control	TSM	21,082	40,000	40,000	0.00%
6821-000-02	Public Education Program: CMSA portion	GM	14,978	35,000	21,000	-40.00%
6815-000-05	Office Expenses	TSM	210	500	500	0.00%
6815-002-05	Information Systems	TSM	-	2,000	2,000	0.00%
6815-003-05	Software License & Support	TSM	-	-	-	100.00%

#### \*Position Code

GM General Manager

ASM Administrative Services Manager TSM Technical Services Manager

RCM Regulatory Compliance Manager

AE Assistant Engineer

	FY21	
Adopted	Change	
FY21	from FY20	Budget Account Description
4,300	-21 82%	Expenses for service contracts to maintain laboratory equipment including the deionized
4,300	21.02/0	water system and certification of analytical balance and pipette/titrator equipment.
3,000	0.00%	Expenses associated with single-day professional meetings and training seminars. Includes
3,000	0.0070	allowed expenses pursuant to the Agency's expense reimbursement policy.
21,000	0.00%	Expenses associated with multi-day professional conferences, seminars, and training events
21,000	0.0070	per the Agency's expense reimbursement policy.
3,700	0.00%	Professional memberships and registration fees for the Water Environment Association
3,700	0.0070	(WEF) and California Water Environment Association (CWEA).
55,000	0.00%	Annual renewal fee for SWRCB administration of the NPDES permit and pre-treatment
33,000	0.0070	program fee.
13,000	0.00%	Fees for annual renewal of the laboratory certification, inspections, required testing,
20,000	0.0070	certificates, ELAP operating costs, and annual DMRQA/WP testing.
39,000	-15.22%	CMSA's NPDES permit requires participation in the Regional Monitoring Program (RMP) for
55,555		the San Francisco Bay, which is administered by the San Francisco Estuary Institute. Cost
		based upon Cu, Ni, Cr, and Se facility loading to SF bay, which increased substantially in FY19
		and for FY20 and FY21 were estimated based running three year cost averages.
25,500	0.00%	SF Bay NPDES dischargers are required to perform regional monitoring tests and perform
,		studies to determine impacts to the bay. Organization participants conduct studies and tests
		related to TMDL development, nutrients, mercury, and PCB permit work that focus on Bay
		Area Clean Water Agencies (BACWA) priorities to protect the SF Bay.
5,400	0.00%	Certified Unified Program Agency fees are paid to the County of Marin for the Agency's
		underground storage tanks and hazardous materials storage.
1,500	0.00%	SWRCB permit for the Agency's industrial site stormwater permit.
-	0.00%	Discontinued account for membership in the Bay Area Pollution Prevention Group.
-	-100.00%	The existing software database used to manage the Agency's Pretreatment and Pollution
		Prevention Programs was replaced in FY 19 with an improved software program (LINKO).
28,200	34.29%	CMSA's share of the Countywide Public Education Program for expenses associated with
		participating in public outreach events, hosting school programs, and educational materials
		for the program.
500	0.00%	Office supplies: sample labels, ink cartridges, paper for large-format printer/plotter, and
		other miscellaneous office expenses.
2,000	0.00%	Allowance for engineering productivity and project management software. One-time
		allowance to purchase a program to replace the software used for bioassay results.
-	0.00%	Licensing fees for Nexgen (CMMS), Ignition( SCADA), AutoCAD (drafting), and virtual server
		maintenance software have been moved to Administration account 6815-002-01.

### Central Marin Sanitation Agency Adopted FY20 & FY21 Operating Budget

Line Item Accounts

### **TECHNICAL SERVICES**

Account #	Account Name	*By	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19
6820-000-05	Printing & Publications	TSM	115	1,000	600	-40.00%
6830-001-05	Professional Svcs - Special Studies	GM	1,476	45,000	45,000	0.00%
6830-002-05	Cathodic Protection	TSM	4,340	5,500	5,500	0.00%
6830-019-05	Professional Svcs - Engineering Support	GM	-	40,000	40,000	0.00%
Subtotal Gen	eral & Administrative		171,570	323,000	334,200	3.47%
Subtotal (ex	cluding Salary and Benefits)		702,441	872,100	896,500	2.80%
Total Enginee	ering		1,568,975	1,925,600	1,982,800	2.97%

#### \*Position Code

GM General Manager

ASM Administrative Services Manager

TSM Technical Services Manager

RCM Regulatory Compliance Manager

AE Assistant Engineer

Adopted FY21	FY21 Change from FY20	Budget Account Description
600	0.00%	Allowance for printing/shipping/advertising expenses for documents not assigned to specific
		CIP project contracts and for mailing expenses related to maintaining CMSA's list of
		prequalified contractors.
-	-100.00%	Funding to implement tasks from the FY19 Asset Management Assessment Project.
5,500	0.00%	Periodic cathodic protection monitoring of the land portion of the marine outfall, sections of
		the Ross Valley interceptor, the San Rafael interceptor, various buried pipelines on Agency
		property, San Rafael Sanitation District Simms Force Main, and the South Francisco casing.
40,000	0.00%	This account is used to fund engineering consultant services as needed.
248,200	-25.73%	
826,000	-7.86%	
1,994,200	0.57%	

#### Cooperative Agreement Expenses - CMSA Services Provided Under Contract to Other Local Agencies

The Agency provides contract services to other local agencies for wastewater treatment services, pump station and collection system maintenance, and administration of Source Control Programs. The Agency also serves as the lead agency to administer the cooperative Health & Safety Program and the Countywide Public Education Program.

With the exception of the Health & Safety Program, the budget in this cost center tracks the non-employee compensation portion of the contract expenses incurred on behalf of the contracting agencies. Each contracting agency has agreed to reimburse CMSA the costs of services rendered by CMSA in accordance with the terms of their respective contracts.

The tables below illustrate the relationship between the amount of projected revenues from each contracting agency in FY20 & FY21 and estimated expenses incurred by CMSA for its services.

Cooperative Agreement Services	Actual FY18	Budget FY19	Adopted FY20	Adopted FY21
CONTRACT SERVICE REVENUES	20			
San Quentin State Prison Wastewater Services	\$ 589,690	\$ 522,405	\$ 601,545	\$ 810,003
San Quentin State Prison Pump Station Maintenance	115,547	111,570	115,921	120,442
San Quentin Village Wastewater Services	22,279	45,297	71,686	51,826
SD#2 Pump Stations	387,164	394,536	446,475	478,337
LGVSD - FOG & Pollution Prevention	11,694	10,000	19,565	20,348
SD #1 – FOG	8,956	8,000	23,100	24,024
SRSD – FOG	10,321	10,000	30,900	32,136
TCSD – FOG	596	1,500	1,584	1,648
SD #2 – FOG	2,790	2,500	7,640	7,945
Almonte SD – FOG	914	1,500	3,432	3,569
Novato SD - Dental Amalgam	2,849	1,500	630	655
SUBTOTAL CONTRACT SERVICE REVENUES	\$1,152,800	\$1,108,808	\$1,322,478	\$1,550,934
Health & Safety Program	51,432	86,600	72,100	74,800
County-wide Education Program	25,201	59,430	35,248	47,339
SUBTOTAL PROGRAM REVENUES	\$ 76,633	\$ 146,030	\$ 107,348	\$ 122,139
TOTAL CONTRACT SERVICE REVENUES	\$1,229,433	\$1,254,838	\$1,429,826	\$1,673,072
COOPERATIVE AGREEMENT SERVICES EXPENDITURES (EXCLUDING ADMINISTRATIVE OVERHEAD CHARGES)				
San Quentin State Prison Wastewater Services	\$ 589,690	\$ 522,405	\$ 601,545	\$ 810,003
San Quentin State Prison Pump Station Maintenance	103,098	98,747	102,599	106,721
San Quentin Village Wastewater Services	20,040	40,820	67,012	47,008
SD#2 Pump Stations	339,670	348,082	395,453	425,783
LGVSD - FOG & Pollution Prevention	9,585	8,197	16,037	16,679
SD #1 - FOG	8,142	7,273	21,000	21,840
SRSD - FOG	9,382	9,091	28,091	29,215
TCSD - FOG	489	1,230	1,299	1,351
SD #2 - FOG	2,536	2,273	6,945	7,223
Almonte SD – FOG	831	1,364	3,120	3,244
Novato SD - Dental Amalgam	2,335	1,230	516	537
SUBTOTAL COOPERATIVE AGREEMENT EXPENDITURES	\$1,085,798	\$1,040,710	\$1,243,617	\$1,469,603
Health & Safety Program	49,807	84,200	69,700	72,300
County-wide Education Program	21,914	51,678	30,650	41,164
SUBTOTAL PROGRAM EXPENDITURES	\$ 71,721	\$ 135,878	\$ 100,350	\$ 113,464
TOTAL COOPERATIVE AGREEMENT EXPENDITURES	\$1,157,519	\$1,176,588	\$1,343,967	\$1,583,067
NET COOPERATIVE AGREEMENT SERVICES	\$ 71,914	\$ 78,250	\$ 85,859	\$ 90,005

### Central Marin Sanitation Agency Adopted FY20 & FY21 Operating Budget

Line Item Accounts

### **COOPERATIVE AGREEMENT EXPENSES**

### **CMSA Services Provided Under Contract to Other Local Agencies**

CMSA Serv	ices Provided Under Contract to Othe	r Local	Agencies			
Account #	Account Name	*By	Actual FY18	Budget FY19	Adopted Budget FY20	FY20 Change from FY19
ADMINISTRA	TION - HEALTH & SAFETY PROGRAM					
•	Salaries, Wages & Compensation	ASM	36,370	48,900	49,500	1.23%
5020-020-06	CalPERS Retirement	ASM	2,909	11,700	3,300	-71.80%
5020-030-06	SS / Medicare	ASM	361	800	700	-12.50%
5030-010-06	Employee Health Benefits	ASM	2,552	11,700	4,400	-62.39%
5030-015-06	Employee Benefits-PEHP	ASM	399	700	700	0.00%
5030-020-06	Retiree Health Benefits	ASM	1,510	2,600	2,600	0.00%
6830-016-06	Health & Safety Manager Program Expenses	SS/M	2,075	8,200	8,500	3.66%
6830-017-06	Prof'l Service: Outside Safety	SS/M	962	4,600	4,800	4.35%
Subtotal Adm	ninistration		47,138	89,200	74,500	-16.48%
TECHNICAL SI	FRVICES					
	Countywide Public Education Program	GM	22,414	52,000	30,700	-40.96%
Subtotal Tech	nnical Services		22,414	52,000	30,700	-40.96%
MAINTENAN	CE.		(excludes labor)			
	SD-2 Pump Stations	MS	113,195	120,900	164,600	36.15%
6600-001-06	SQP Pump Station Maintenance	TPM	46,444	110,000	115,900	5.36%
6600-002-06	SQ Village WW System Maintenance	TPM	9,117	20,300	45,900	126.11%
Subtotal Mai	ntenance		168,755	251,200	326,400	29.94%
Total Coopera	ative Agreement Expenses		238,307	392,400	431,600	9.99%

#### \*Position Code

ASM Administrative Services Manager GM
General
Manager
SS/M Safety Specialist/Manager
MS Maintenance Supervisor

TPM Treatment Plant Manager

Adopted FY21	FY21 Change	Pudget Account Description
FYZI	from FY20	Budget Account Description
51,400	3.84%	Novato Sanitary Distict's (NSD) share of the Safety Specialist/Manager position salary is 39.75% and includes car allowance and leave cash-outs. The Agency's share is 60.25% and is allocated to the Administration Budget.
3,500	6.06%	Employer and employer-paid employee contributions for CalPERS PEPRA 2% @ age 62 retirement program.
800	14.29%	Employer's 1.45% share of Medicare.
4,600	4.55%	Employer-paid contributions for employee benefits includes insurance coverage for health, dental, vision, life, accident and disability.
800	14.29%	PEHP is a post employment health plan employer-paid contribution totaling 1.5% of base salary and \$180 per year administration fee.
2,700	3.85%	Medical benefits for one retired employee and one surviving spouse.
8,500	0.00%	Professional services, materials, supplies, and memberships to administer the Safety Program for two participating agencies. NSD's program share is 39.75% of program costs. CMSA's 60.25% share is budgeted to 6830-016-01.
5,200	8.33%	Training expenses for required safety programs that include hearing tests, first-aid/CPR, incident command training, traffic control, defensive driving, and many other Cal/OSHA programs that facilitate a safe work environment.
77,500	4.03%	
41,200	34.20%	Program expenditures to administer the County Wide Education Program for promotional materials, booth registration fees, public outreach program costs, sponsorships, supplies, and memberships. CMSA's 40.6% share of the program cost is budgeted to Technical Services account 6821-000-02.
41,200	34.20%	
188,000	14.22%	SD#2 pump station maintenance costs for repair services, parts, supplies, equipment and recommended maintenance and capital expenditures.
120,400	3.88%	SQP pump station maintenance costs include labor, mileage, repair services, parts, supplies, equipment, and recommended maintenance and capital expenditures.
25,300	-44.88%	SQV wastewater maintenance costs include labor, mileage, repair services, parts, supplies, equipment, and recommended maintenance and capital expenditures.
333,700	2.24%	
452,400	4.82%	

#### SECTION 8. CAPITAL IMPROVEMENT PROGRAM

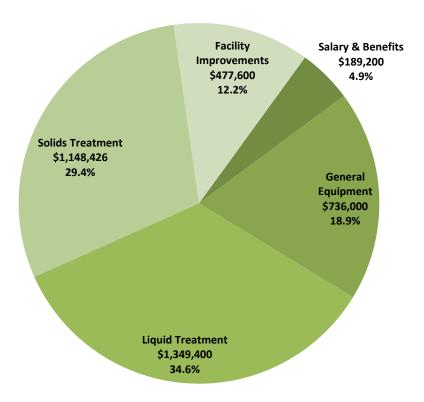
The treatment and disposal of wastewater and its beneficial reuse of by-products is a highly regulated enterprise that requires significant capital infrastructure. CMSA operates an around-the-clock wastewater facility, and the various assets and equipment necessary for the treatment processes are subjected to heavy use in a sometimes harsh operating environment. These assets are subjected to constant contact with wastewater and chemicals used in the treatment process. Agency staff monitors the development of new technologies and considers processes that may improve treatment methods, save energy, reduce chemical usage, and assist with meeting changing regulatory requirements. The maintenance, replacement, and addition of capital assets are an essential part of the Agency's Capital Improvement Program (CIP) budget.

The CIP identifies capital expenditures over the next ten years so that the Agency may develop appropriate funding plans to implement future capital activities. The 10-Year CIP includes the replacement and rehabilitation of existing capital assets, as well as the acquisition or construction of new capital assets. Included within the 10-Year CIP are the FY20 & FY21 budgets for capital projects and asset repair and replacement activities shown in the table below. These initiatives are organized into five categories: 1) Salary and Benefits for CIP Management, 2) Facility Improvements, 3) General Equipment, 4) Liquid Treatment Equipment and Systems, and 5) Solids Treatment and Energy Generation Equipment and Systems.

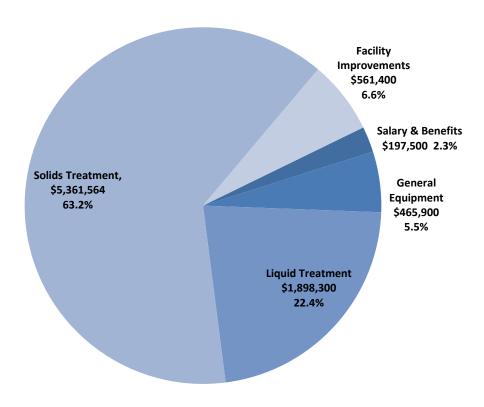
Capital expenditures are cash transactions made by the Agency that result in the acquisition or construction of a capital asset. A capital asset is any asset valued over \$5,000 with a useful life of over five years. Examples include land, buildings, machinery, vehicles, and equipment. All capital assets that the Agency plans to acquire or construct are included in the FY20 & FY21 CIP.

				FY20		FY21
	Budget	Budget	Budget	#	Budget	#
	FY18	FY19	FY20	Projects	FY21	Projects
CIP Categories:						
1. Salary & Benefits for CIP Management	\$ 185,200	\$ 185,200	\$ 189,200		\$ 197,500	
2. Facility Improvements	1,740,600	557,500	477,600	7	561,400	5
3. General Equipment	584,300	454,600	736,000	9	465,900	9
4. Liquid Treatment Equipment and Systems	635,700	1,220,200	1,349,400	13	1,898,300	10
5. Solids Treatment and Energy Generation						
Equipment and Systems	671,800	445,000	1,148,426	8	5,361,564	7
TOTAL CIP PROJECTS	\$3,817,600	\$2,862,500	\$3,900,626	37	\$8,484,664	31

### **FY20 Capital Improvement Program**



**FY21 Capital Improvement Program** 



#### **Major Capital Projects**

The 10-Year CIP includes many important projects to maintain or improve the operation of the Agency's facilities. Within the CIP, several projects have additional Detailed Project Descriptions that further explain the scope, schedule, and budget for the project. The major projects in FY20 & FY21 are:

- Primary Clarifier Gates Actuator System: The five original primary clarifiers have several large gates that control flow into the tanks from the headworks. Plant operations staff uses hydraulic system to open and close primary clarifier gates. The hydraulic system was installed when the plant was constructed in 1985 and can only be operated with levers located at each gate. This project will replace the hydraulic gate operators with an electronic actuator system that can be operated through CMSA's Supervisory control and data acquisition (SCADA) system. This will increase reliability and will allow plant operations staff to remotely open and close the gates. This project was started in FY19 and construction will be completed in FY20.
- Secondary Clarifiers Rehabilitation: There are four secondary clarifiers in the treatment plant. The 2018 Facilities Master Plan recommends a project for each clarifier to repair corrosion on mechanical equipment, metal structural components, and pipes inside the clarifier, resurfacing the effluent trough concrete, retrofitting the catwalk with FRP grating, and repairing corrosion on piping in the sumps in the pump room (Master Plan Project 08-1). While each clarifier is out of service, the large drive turntables in Clarifiers 1, 3, and 4 will be replaced. The turntable drive for Clarifier No. 2 was replaced in 2011. This is a multi-year project that includes the design of the improvements in FY20 with construction of the improvements occurring in the FY21, FY22 and FY23 summers.
- New Cogeneration System: This project includes the design and construction of a new cogeneration engine as recommended in the 2017 Master Plan and 2018 Cogeneration Predesign. The design of the new cogeneration system is planned to begin in FY20 and construction would occur in FY21 and FY22. This schedule coincides with the expansion of the OWRF program and the Agency's ability to sell excess power through a new PG&E Interconnection Agreement and power sale agreement with Marin Clean Energy.
- Cogeneration Maintenance: CMSA's existing cogeneration engine experienced a
  catastrophic failure event in late May 2019. The engine is proposed to be repaired and rebuilt offsite in early FY20. Until the new cogeneration engine is operational, the existing
  cogeneration engine is critical to supply CMSA with on-site generated power, offsetting the
  purchase of significant amounts of electricity from PG&E.
- RAS/WAS Pump Replacement: The 2018 Facilities Master Plan recommends a project to replace the Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) pump systems. These pumping systems are an integral part of the activated sludge treatment process and are mostly original equipment. The design for this project will be in FY21 and the FY22 & FY23 construction will include replacing the pump systems and installing valving as needed to provide increased ability to isolate pumps for maintenance in the future.
- <u>Electrical Distribution System Rehabilitation:</u> The 2018 Facility Master Plan recommends replacing the main electrical switchgear components that distribute power throughout the facility as the existing switchgear electrical components are mostly comprised of equipment

from 1985. While most of the equipment is operational, it is increasingly difficult to locate replacements because manufacturers no longer provide full technical support. A detailed assessment of the equipment is proposed in FY20 to evaluate the cost, siting impacts, and construction sequencing and timing considerations for full equipment replacement, while also factoring in potential future load increases for the facility. In parallel, an inspection and in-place refurbishment of existing equipment will be completed in FY20, and minor improvements will be constructed in FY21 including HVAC improvements and provisions for the connection of a temporary emergency generator.

• Facilities Structures Seismic Study. The 2018 Facility Master Plan recommends conducting a study to evaluate seismic impacts due to soil settlement. Subsidence of the ground has been observed in multiple locations throughout the facility, including in the immediate areas around process tanks. Because structures were constructed on pile foundations, the settlement has produced gaps under the bottom of the structures. It is possible that the original seismic design was dependent on the tops of the piles being at grade and fully supported. With the tops of the piles currently above grade and exposed, the unsupported pile length may be overstressed during an earthquake resulting in structural damage. Ground settlement may have also affected the stresses on buried piping between process areas. A study will be conducted in FY 21 to quantify the risk of structural damage due to soil settlement and identify future structural improvement projects, if necessary.

#### 10-Year Capital Improvement Program Planning and Funding

The Agency annually updates its 10-Year CIP as part of the budget development process. The FY20 & FY21 CIP Budget and 10-year CIP schedule were prepared by an interdisciplinary CIP team comprising managers and supervisors from the Technical Services and Operations and Maintenance departments. The CIP team is responsible for developing and managing the annual CIP Budget, determining the appropriate delivery method for each project and activity, and monitoring and reporting of CIP activities. The General Manager and Administrative Services Manager are responsible for working with the Board Finance Committee to develop long-term funding options for the 10-Year CIP.

The plan undergoes several levels of review. Each project or activity included in the CIP is individually evaluated to 1) determine its operational necessity, 2) ascertain if there is a less expensive alternative, 3) identify opportunities to reduce energy consumption and/or greenhouse gas emissions, and 4) create a project development schedule. Depending on the scale of the project, large, multi-year construction projects will typically have evaluation, study, and/or pre-design elements incorporated into the CIP. Costs for large projects are estimated by engaging consulting engineers to prepare cost estimates, while cost estimates for smaller scale projects are determined by either surveying other public agencies or by utilizing costs from similar projects conducted by CMSA. Once the budget has been adopted, the Agency is required to comply with the California Uniform Public Construction Cost Accounting Act to acquire the assets and deliver the project. All construction and professional service contracts and purchases that are over the dollar threshold set by the aforementioned Act and CMSA policies require Board approval at an open public meeting.

The total cost of the CIP over the next ten years is approximately \$55 million. This 10-year CIP scope focuses primarily on replacing priority infrastructure and assets, and is funded by

capacity charges, debt proceeds, debt service coverage revenues, a capital fee, and unrestricted capital reserves. The Agency's current revenue program began in FY19 and ends in FY23 and includes new debt issue \$9M proceeds to finance capital improvements. The balance of the ten-year program will be financed from capacity charges received, new debt issue proceeds in FY24 in the amount of \$10M, debt service coverage revenues, a capital fee, and unrestricted capital reserves estimated at \$4.1M as a financing source for additional priority projects.

#### **Other Sources of Capital Funding**

When there is a new connection to the sanitary sewer system from a home or business in the CMSA service area, the Agency receives a capacity charge. The intent of the charge is to ensure that all new users pay their fair share of the capital costs of capacity of the wastewater treatment and disposal system. Each JPA Member agency charges a separate collection system connection fee. For a new connection, the JPA member agency collects the combined connection fee and capacity charge from the property owner/developer, and the capacity charge portion of the fee is remitted to CMSA. Central Marin County is a well-developed region with very little large scale residential or commercial expansions generally occurring in the combined CMSA service area. Capacity charges received during the fiscal year are accounted for per requirements of the California Government Code that CMSA disclose the amount of capacity charges collected within 180 days after the fiscal year and identify the public improvements or projects that were funded by the capacity charges. The amount of capacity charges that the Agency has received each fiscal year and the capital improvements funded by these charges can be found in the Agency's Comprehensive Annual Financial Report which is available on the Agency's website: <a href="https://www.cmsa.us/finance./budget">www.cmsa.us/finance./budget</a>.

#### **Refining Capital Infrastructure Planning and Budgetary Impacts**

Over the last several years, the Agency invested in the development and use of a computerized asset management system. An important aspect of an asset management system is the ability to schedule maintenance and monitor operating performance of capital assets. The system database accumulates information on each asset, and the data is used to determine when it is no longer economically feasible to maintain an asset and when a replacement should be considered.

In the last five GFOA Budget presentations, the Agency had attempted to address the impact of CIP investments on future operating budgets. Most capital projects are approved to replace existing assets. Once a decision has been made to replace an existing asset, the Agency incorporates elements of operational savings such as energy efficiency, reduced chemical usage, or improved operational reliability, into the selection of the new asset. When capital assets are placed in service, the savings or increased operating costs are quantified and incorporated into the planning of the annual budget to the extent possible.

#### FY20 & FY21 and 10-Year CIP Budget Documents

Refer to the following documents for detailed information on the 10-Year CIP:

- 10 Year Capital Improvement Program Schedule. The schedule shows the Agency's planned capital activities for the next ten fiscal years
- <u>Capital Improvement Program Account/Project Descriptions</u>. Each project, initiative, and activity in the 10-Year CIP expenditure plan is described by budget account number and serves to guide Agency staff in the execution of budgeted activities. The document identifies replacement schedules for equipment and assets and is a reference when assigning account numbers for purchase orders and payment of goods and services.
- <u>Detailed Project Descriptions</u>. Each large or multi-year initiative has a dedicated planning level document which describes the major capital project by its scope, justification, costs by fiscal year and activity, and includes photograph(s) of the project being described.

# Central Marin Sanitation Agency Capital Improvement Program FY20 & FY21 Adopted Budget and 10-Year Forecast

				Adopted	pted 10-year CIP											
GL Account			Delivery	Budget	1	2	3	4	5	6	7	8	9	10	Total	Project
Number			Delivery		Adopted	Adopted										
	PM*		Method	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY20 - FY29	Totals
Facility Improve																
7300-103-10	TSM	Effluent Storage Pond Rehabilitation	FB	-	-	-	-	-	-	41,300	1,306,500	-	-	-	1,347,800	1,347,800
7300-700-10	TSM	Agency Facilities Master Plan	PSA	30,000	-	-	-	-	-	-	-	-	-	-	-	
7300-956-00	TSM	Industrial Coatings & Concrete Rehabilitation	IB/MC	215,000	209,100	274,200	21,000	147,100	22,000	22,400	22,900	140,300	23,900	24,400	907,300	
7300-987-00	TSM	Outfall Inspection & Repairs	IB/MC	33,000	80,000	34,000	423,200	35,500	36,300	37,100	37,900	38,700	39,500	40,400	802,600	
7400-945-00	TSM	Facility Improvements	IB	44,000	35,000	35,000	-	-	35,000	=	-	-	40,300	-	145,300	
7400-956-00	TSM	Facility Paving/Site Work	IB/MC	200,000	45,000	11,200	102,400	145,100	12,000	12,200	167,800	12,800	13,000	13,300	534,800	
7400-600-00	TSM	Hillside Slope Stabilization	FB	35,500	25,000	-	-	-	-	-	-	-	-	-	25,000	
7400-960-00	TSM	Facility Roofs Rehabilitation (3)	MC/IB/FB	-	68,500	-	228,600	25,000	25,600	26,100	20,000	150,000	27,900	28,500	600,200	600,200
7400-967-00	TSM	SHB Elevator Control Replacement	IB	-	15,000	-	-	103,500	-	-	-	-	-	-	118,500	118,500
7400-963-00	TSM	Facility Structures Seismic Study	PSA	-	-	207,000	-	-	-	-	-	-	_	-	207,000	207,000
		Subtotal - Facility	Improvements	557,500	477,600	561,400	775,200	456,200	130,900	139,100	1,555,100	341,800	144,600	106,600	4,688,500	
<b>General Equipm</b>	ent															
7300-672-00	ISA	Process Control	M/MC	30,000	44,600	47,800	34,000	34,800	35,500	51,000	37,100	37,900	38,700	39,500	400,900	
7300-672-10	TSM/ISA	Security / Fire Systems	MC	25,000	10,500	15,000	11,000	11,400	11,500	16,300	12,000	17,000	12,500	17,700	134,900	
7300-683-00	MS/TSM	Fuel Storage Tanks	IB/MC	-	-	-	-	121,400	-	-	129,400	-	_	-	250,800	
7410-851-00	ISA	IT Hardware and Communication Equip	M	66,200	209,900	31,000	52,200	32,000	65,400	16,700	34,100	58,100	35,600	72,700	607,700	
7420-701-00	MS	Agency Vehicle Replacement	IB/PO	95,400	40,000	70,000	22,500	41,400	73,100	54,400	181,500	82,100	83,900	87,600	736,500	
7430-958-00	LD	Laboratory Equipment	PO	85,000	108,000	51,100	156,600	77,300	-	9,500	136,400	11,700	29,700	60,600	640,900	
7450-002-00	MS	Electrical Equipment	M/IB	100,000	120,000	100,000	109,000	98,000	94,000	85,000	86,900	88,700	90,700	92,600	964,900	
7450-002-10	MS	Plant Lighting	IB	22,000	14,000	15,000	16,000	10,000	10,000	-	-	-	-	-	65,000	
7450-102-00	MS	Process Instrumentation	М	31,000	79,000	31,000	25,000	25,600	26,100	26,700	27,300	27,900	28,500	29,100	326,200	
7450-105-00	MS	Electrical Distribution System Rehabilitation (3)	PSA/FB	-	110,000	105,000	-	474,784	2,335,700	203,000	-	211,800	-	-	3,440,284	3,440,284
		Subtotal - Gene	eral Equipment	454,600	736,000	465,900	426,300	926,684	2,651,300	462,600	644,700	535,200	319,600	399,800	7,568,084	
Liquids Treatme	nt Equipm	ent and Systems						·	·				·	·		
7300-685-00	TSM	Biotower Rotary Distributor Replacement	IB	-	-	-	-	-	-	1,009,300	-	-	-	-	1,009,300	1,009,300
7300-700-00	MS	Plant Pumps	MC/M	63,300	80,000	66,100	67,600	69,000	70,500	72,000	73,600	75,100	76,800	78,400	729,100	
7300-719-00	MS	Chemical Pumps	М	80,600	77,600	155,200	181,000	67,000	56,400	57,700	58,900	60,200	61,500	62,800	838,300	
7300-720-00	MS	Gates Rehabilitation (3)	M/IB	436,400	474,500	79,400	81,200	82,900	437,700	86,500	88,400	90,300	92,200	94,200	1,607,300	1,632,300
7300-727-00	MS	Headworks Equipment	М	27,400	28,900	29,600	30,200	361,100	31,500	255,600	1,056,200	33,600	34,300	35,000	1,896,000	1,923,614
7300-981-00	TSM	Odor Control System Improvements	PSA/FB	-	20,000	-	-	-	2,003,600	-	2,276,800	1,546,800	-	-	5,847,200	5,847,200
7300-983-00	MS	Process Tank Maintenance (3)	M/IB	70,000	60,000	535,800	62,700	85,000	86,900	88,700	90,700	92,600	94,600	72,700	1,269,700	
7400-965-00	TSM/MS	Primary Clarifiers Rehabilitation	M/FB	40,000	35,000	-	369,800	400,300	408,900	835,300	-	161,200	164,700	-	2,375,200	2,415,154
7300-990-00	MS	Secondary Clarifiers Rehabilitation (3)	PSA/FB	150,000	185,000	306,500	313,100	287,800	156,700	-	-	-	-	-	1,249,100	1,269,100
7300-991-00	TSM	RAS/WAS Pump Replacement (3)	FB	-	-	389,700	779,500	779,500	-	-	-	-	-	-	1,948,700	1,948,700
7300-995-00	TPM	Aeration System Rehabilitation	M/IB	20,000	20,000	-	-	-	40,000	-	-	-	-	-	60,000	
7400-966-00	TSM	Process Piping Inspection/Repairs/Replacement	PSA	190,000	220,000	-	-	-	-	50,000	113,800	163,400	-	_	547,200	547,200
7430-855-00	MS	Chemical Tanks	M/IB	45,000	65,100	69,400	100,000	37,200	44,400	10,000		56,100		58,600	544,800	
7430-857-00	MS	Piping, Valves & Operators	M	72,500	58,300	59,600	60,900		63,500	64,900		67,700	•	70,700	643,300	
7430-859-00	TSM	CCT Valve Rehabiliation	TSM	-	-	-	-	-	-	-	-	335,300		-	335,300	
7450-104-10	TSM	Influent Flow Meter Improvement	PSA	25,000	25,000	207,000	-	_	_	-	-	-	-	-	232,000	
	TSM	Nutrient Removal	TSM	-	-	,	-	-	_	_	-	-	-	-	-	
7300-992-00			i i	1												

# Central Marin Sanitation Agency Capital Improvement Program FY20 and FY21 Adopted Budget and 10-Year Forecast

				Adopted						10-year CIP						
GL Account Number			Delivery	Budget For	1 Adopted	2 Adopted	3	4	5	6	7	8	9	10	Total	Project
	PM*		Method	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY20 - FY29	Totals
Solids Treatme	nt and Enei	gy Generation Equipment and Systems														
7300-678-00	TSM	Emergency Generator Assessment & Improvement	PSA/FB	-	-	-	95,000	-	-	80,300	499,700	1,499,200	-	-	2,174,200	
7300-691-00	TSM	Digester Inspection, Cleaning & Cover Replacement	FB	-	-	-	-	-	-	945,000	966,000	-	-	-	1,911,000	
7300-715-00	TSM/MS	Centrifuge Maintenance (3)	PSA/FB	40,000	=	50,000	-	521,800	2,820,500	-	-	-	-	-	3,392,300	3,442,305
7300-722-00	MS	Cogeneration Maintenance	M/IB/FB	145,000	400,000	60,000	62,700	150,000	65,400	66,800	68,200	69,700	71,200	72,700	1,086,700	1,239,341
7300-729-00	TSM	New Cogeneration System (3)	FB	-	598,226	5,063,164	1,687,721	114,000	1,559,700	-	-	-	-	-	9,022,811	9,022,811
7300-724-00	MS	Hot Water Systems	M/PSA	14,900	29,000	37,800	26,100	31,000	31,600	32,300	37,500	5,900	6,000	6,100	243,300	
7300-728-00	TSM	Digester Mixing Pump Study	PSA	-	-	-	100,000	-	-	=	-	-	-	-	100,000	
7300-725-00	MS	Boilers and Gas Processing Equipment	IB	74,500	13,000	-	-	-	-	556,200	-	-	-	-	569,200	
7300-977-00	MS	Sludge Recirculating Pump Grinders	M	18,900	19,400	19,900	20,300	20,700	21,200	21,600	22,100	22,600	23,000	23,500	214,300	
7300-978-00	MS	Biosolids Hoppers Maintenance	М	-	9,300	-	9,800	-	10,200	=	10,600	-	11,100	-	51,000	
7300-980-00	MS	Organic Waste Receiving Facility	PO	51,700	54,500	55,700	56,900	358,100	59,400	60,700	62,000	63,300	64,700	66,000	901,300	
7300-660-00	TSM	PG&E Interconnection Agreement Modification	PSA/IB	100,000	25,000	75,000		-	-	_	-	-	-	-	100,000	
·	St	ubtotal - Solids Treatment and Energy Generation Equipment	and Systems	445,000	1,148,426	5,361,564	2,058,521	1,195,600	4,568,000	1,762,900	1,666,100	1,660,700	176,000	168,300	19,766,111	
		CMSA Staff Cos	ts for CIP (2)	185,200	189,200	197,500	197,500	201,700	206,000	210,500	215,000	219,600	224,300	229,100	2,090,400	
		Annu	al CIP Totals	2,862,500	3,900,626	8,484,664	5,503,521	5,012,184	10,956,300	5,105,100	7,952,200	5,439,600	1,515,200	1,376,200	55,245,595	

<sup>\*</sup> PM indicates the project manager for the account.

(1) BOLD items are individual Capital Improvement Projects, or larger, nonrecurring maintenance projects.

(2) CMSA Staffing costs (compensation and benefits) for identified CIP projects.

(3) CIP Projects in FY20 & FY21 that will have staff time charged to the CIP.	Projected Annual Escalation Rate:	2.15% (rolling 5-year average of ENR San Francisco Construction Cost Index (CCI) annual change			es)						
	Escalation Factors:	1.0215	1.0435	1.0659	1.0888	1.1122	1.1361	1.1606	1.1855	1.2110	1.2370

	Delivery Methods
М	Maintenance project, self performed
MC	Maintenance Contract
PO	Purchase Order, equipment only
PSA	Professional Services Agreement
IB	Informally Bid
FB	Formally Bid

		Facility Improvements
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
7300-103-10	Effluent Storage Pond Rehabilitation	See Full Page Description.
7300-700-10	Agency Facilities Master Plan	See Full Page Description.
7300-956-00	Industrial Coatings & Concrete Rehabilitation	Scheduled industrial coating rehabilitation program for process structures, metal equipment, and treatment plant deck traffic coatings. Coating rehabilitation will be included as part of a larger project when appropriate. The condition of concrete structures will be periodically assessed and projects will be added as needed.
		FY20 – Replace headworks structural metal (skylights, pipe supports, etc.) and apply new epoxy coating on the new metal and the grit tank handrails. Apply new epoxy paint on the CCTs 5 & 6 piping and repair the CCTs 1-4 concrete cold joints and inspect spalled concrete below the water line in CCTs 1-4.
		<ul> <li>FY21 – Repair wear coating on the headworks deck and install wear coating on CCTs 1-4. Apply coating above water lines in CCTs 1-4, including repair of exposed rebar below the water lines.</li> <li>FY22 – Allowance for industrial coatings as needed.</li> </ul>
		FY23 – Repair the saw cut floor area in the digester basement (Master Plan Project 13-2).
		FY24-26 – Allowance for industrial coating as needed.  FY27 – Repair cracked concrete in the ferric storage room and recoat the floor (Master Plan Project 04-5).
		FY28-29 – Allowance for industrial coating as needed.
7300-987-00	Outfall Inspection & Repairs	On-going underwater inspection and maintenance of the marine outfall diffuser section. Activities include diver inspections of diffusers and risers, survey of diffuser check valve levels above shifting bay floor sediments, extending or replacing risers and diffuser check valves as needed, and periodic monitoring and removal of solids deposition inside outfall pipe.  FY20 — Routine inspection and riser extension or replacement of units found to be buried/damaged (assumed 20 total for budgeting),
		as needed.  FY21 – Routine inspection and riser extension or replacement  (assumed 5 per year), as needed.
		FY22 – Allowance for outfall diffuser section interior cleaning. If the previous year's interior solids monitoring indicates the solids accumulation is minor, it will be deferred until a future year based on the solids accumulation rate from FY14 to FY20.
		FY23-29 – Routine inspection and riser extension or replacement (assumed 5 per year), as needed.

		Facility Improvements
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
7400-945-00	Facility Improvements	This account is for various building improvements that are not incorporated into other capital projects.  FY20 — Siding replacements for the final effluent sample vault.  FY21 — Allowance for replacement of six personel access doors throughout the facility (four at headworks and two at solids load bay). Also replace two roll-up doors at maintenance annex.  FY24 — Allowance for building improvements.  FY28 — Allowance for building improvements.
7400-956-00	Facility Paving/ Site Work	This account is for minor paving repairs and associated site work on internal facility roads, walkways, parking lots, and other pavement, and for re-grading, cleaning, and replacing gravel in drainage ditches.  FY20 – Allowance for spot repairs of failed/cracking roadway surface near main gate, adjacent to effluent storage point and at curved roadway turn near the CCT effluent area.  FY21 – Allowance for miscellaneous paving improvements.  FY22 – Allowance for a major plant slurry seal and striping project (plant road from gate to OWRF).  FY23 – Allowance for a major plant paving project (employee parking area).  FY24-25 – Allowance for miscellaneous paving improvements.  FY26 – Allowance for a major plant paving project (plant road from primary clarifiers to SHB).
7400-600-00	Hillside Slope Stabilization	Several significant landslides occurred on the hillside adjacent to Andersen Drive during the 2017 winter storms. CMSA submitted a request for FEMA funding to repair the slope failures and received approval of our Request for Public Assistance. FEMA and Cal OES funds cover the majority of the project costs. As of April 2019, the CMSA share is expected to be approximatley \$25,000 in FY20.
7400-960-00	Facility Roofs Rehabilitation	See Full Page Description.
7400-967-00	SHB Elevator Control Replacement	See Full Page Description.
7400-963-00	Facility Structures Seismic Study	See Full Page Description.

		General Equipment
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
7300-672-00	Process Control	Allowances for on-going replacement, upgrades, and improvements to the Agency's process control system including new instruments, servers, and computers; and Programmable Logic Controllers (PLCs) and Human Machine Interface (HMI) hardware and software. Annual allowance is based on escalated costs from previous years. Actual cost estimates are used for specifically identified equipment.
		FY20 – Routine PLC and HMI hardware replacement. Identify and purchase critical spares. Upgrade two PLCs and associated analog IO modules. Hilltop repeater wind generator/battery replacements. Add UHF radio receiver to hilltop to extend portable radio reception to majority of service area.  FY21-24 – Routine PLC and HMI hardware replacement. Identify and
		purchase critical spares.  FY25 – SCADA system software review and potential upgrades.  FY26-29 – Routine PLC and HMI hardware replacement.
7300-672-10	Security/ Fire Systems	Allowance for projects related to the Agency's physical security and fire protections systems, including a biannual allowance to purchase replacement equipment as needed.
		FY20-29 – Allowance for annual and quarterly inspections of alarms and sprinklers.
		FY23 – Complete 5-year inspection for sprinkler system. The annual sprinkler inspection would not be required during this Fiscal Year.
		Note: allowance for alarm and sprinkler related spare parts is included every other year.
7300-683-00	Fuel Storage Tanks	Allowance to replace the existing underground fuel storage tanks with above ground storage tanks. This replacement would be triggered by one of the underground tanks failing or by a change in regulatory requirements. It is expected that any regulatory change would provide sufficient time for the replacement to occur in the fiscal year following the change.
		During the design and construction of the new cogeneration system, synergies will be evaluated regarding moving the diesel storage tank in the area to an above ground location.

		General Equipment
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
7410-851-00	IT Hardware and Communication Equip	Routine repair and regular replacement of IT hardware and software, such as office computers, printers, scanners, digital telephone equipment and its supporting servers, and voice radio equipment used by Agency staff.  FY20 — Allowance for equipment listed above and upgrade/replacement of plant fiber runs. One-time allowance for purchase of new Agency financial software package.  FY21 — Allowance for equipment listed above and replacement of 15 SCADA workstations.
		FY22 – Allowance for equipment listed above and replacement of the data servers on which all Agency business and SCADA virtual servers run.
		FY23 – Allowance for equipment listed above and replacement of backup repository.
		FY24 – Allowance for equipment listed above and upgrade of 45 business computers and 5 laptops.
		FY25 – Allowance for equipment listed above.
		FY26 – Allowance for equipment listed above and replacement of 15 SCADA workstations.
		FY27 – Allowance for equipment listed above and replacement of the CMSA data servers on which all agency business and SCADA virtual servers run.
		FY28 – Allowance for equipment listed above and replacement of backup repository.
		FY29 – Allowance for equipment listed above and upgrade of 45 business computers and 5 laptops.
7420-701-00	Agency Vehicle Replacement	Purchase new vehicles or equipment for passenger vehicles, trucks, forklift, bicycles, and electric carts as they reach or exceed their expected useful lives.
		FY20 – Replace one carpool vehicle and one electric cart.
		<ul> <li>FY21 – Replace one carpool vehicle, one forklift, and one electric cart.</li> <li>FY22 – Replace tires on all-terrain forklift electric cart and five bicycles.</li> </ul>
		FY23 – Replace F150 environmental services truck.
		FY24 – Replace skid steer loader and replace batteries for administration Prius.
		FY25 – Replace Ford E250 van.
		FY26 – Replace F450 flatbed with a mechanic's truck, and one electric cart.
		FY27 – Replace F150 Utility truck vehicle and one electric cart.
		FY28 – Replace pump station rounds truck, GM vehicle, and two electric carts.
		FY29 – Replace Technical Services Transit.

General Equipment			
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
7430-958-00	Laboratory Equipment	This account includes allowances for scheduled replacement of laboratory equipment such as autoclaves, spectrophotometers, collection/sampler systems, washers, incubators, bioassay system, etc.  FY20 — Replace and relocate the bioassay system to the end analyzer room and complete minor room modifications (walls, lighting, electrical etc) to accommodate the system at the new location. Replace ammonia distillation system and chlorine titrator. Purchase and install a TKN digestion system and online temperature monitoring.  FY21 — Purchase and install an Ion Chromatography (IC) System for cations and anions.  FY22 — Purchase and install an ICP-OES for metals analysis.  FY23 — Purchase a microscope, microbiological incubator replacement, and a reagent refrigerator.  FY25 — Replace San Quentin composite sampler.  FY26 — Purchase FIA system (ammonia, total P, cyanide).  FY27 — Replace chlorine titrators.  FY28 — Replace Ovens and muffle furnance.  FY29 — Purchase/replace influent and effluent samplers, analytical balance, and UV spectrophotometer.	
7450-002-00	Electrical Equipment	This account includes allowances for planned maintenance, upgrading, and replacement of Agency electrical components: individual motor controls and equipment panels, electric sluice gate operators, variable frequency drives, and electrical equipment to support process equipment.  FY20 — Replace five valve actuators on the hypochlorite tank piping system and replace maintenance shop high voltage transformer.  FY21 — Purchase a spare actuator for the 66-inch effluent valve.  FY22 — Replace Control Room uninterruptible power source and purchase a spare actuator for the 72-inch gate.  FY23 — Purchase a spare actuator for the 84-inch gate.  FY24 — Purchase spare actuators for 4-inch to 8-inch valves.  FY25-29 — Annual Allowance for replacement of equipment as determined by condition assessment as needed, including actuators, MCC buckets, conduit replacement, etc.	

General Equipment			
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
7450-002-10	Plant Lighting	This account includes allowances to replace low efficiency lights with LED lighting that consumes less power and reduces light pollution. Each project is grouped by lighting fixture type and will be completed by staff or an electrical contractor.  FY20 — Replace HPS lighting in the grit loading bay, solids loading bay,	
		and the secondary clarifier and effluent pump station wall packs.	
		FY21 – Replace HPS lighting in the bollards around the Administration Building and on light poles by the above ground diesel storage tank, 66-inch valve vault, OWRF, and sulfatreat vessels.	
		FY22 – Replace HPS lighting on Primary Clarifiers No. 6 & 7, CCTs 5 & 6, and polymer station.	
		FY23 – Allowance to replace any remaining HPS lighting.	
		FY24 – Allowance for replacement of fixtures as needed.	
7450-102-00	Process Instrumentation	This account includes allowances for on-going repair, replacement, or upgrading of obsolete meters, sensors, and transmitters per year, and to provide local process status information and transmit it to the treatment plant's SCADA system. Annual allowance is based on equipment costs from previous years and has been escalated to current and future dollars.	
		FY20 – Allowance for above equipment, plus replace final effluent strip chart recorder and portable gas monitors as needed.  Purchase high/low pressure switch instrumentation calibration equipment. Purchase secondary system flow meter.	
		FY21 – Install flow meters for centrifuge ferric chloride addition, two DO probes, two CL2 probes, two SBS probes, and two aeration basin analyzer controllers.	
		FY22 – Level sensor for site sump, replace headworks atmospheric monitoring equipment and control panel.	
		FY23 – Procure two analyzers controllers (CL2/SBS) and digester lazer level indicator.	
		FY24 – Flow meters, WAS and primary sludge meters in solids handling area.	
		FY25 – Differerential PSI (biogas and digester membranes) transmitters, and two analyzer controllers.	
		FY26 – Replace Rosemount digester PSI/liquid level transmitters if not completed with digester inspection, cleaning, and rehabilitation project work.	
		FY27 – Replace RAS flow meter and two analyzer controllers.	
		FY28 – Allowance for above equipment, plus replace the OWRF atmospheric monitoring equipment.	
		FY29 – Allowance for above equipment.	

General Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
7450-105-00	Electrical Distribution System Rehabilitation	See Full Page Description.

	Liquid Treatment Processes and Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
7300-685-00	Biotower Rotary Distributor Replacement	See Full Page Description.	
7300-700-00	Plant Pumps	Scheduled replacement of centrifugal, positive displacement, and chopper pumps. These pumps transport primary sludge, WAS, contact tank scum, and other liquids throughout the facility. This account also includes digester mixing pumps.	
		FY20 – Replace three carrier water pumps.	
		FY21 – Refurbish one biotower pump. Replace two primary scum pumps, two plant sump pumps, and one bioassay staged pump.	
		FY22 – Refurbish three recycled water pumps and one scum pump. Replace two headworks sample pump, two sump pumps, and two bioassay staged pumps.	
		FY23 – Replace two sump pumps and two secondary scum pumps.  Allowance to replace additional pumps identified by condition assessments.	
		FY24 – Refurbish two digester mixing pumps. Allowance to replace additional pumps identified by condition assessments.	
		FY25 – Replace CCT scum pumps with centrifugal style pump.	
		FY26 – Centrifuge feed pumps, if not included in Centrifuge Replacement Project.	
		FY27 – Replace two TWAS pumps at RDTs.	
		FY28-29 — Allowance to replace pumps identified by condition assessments.	

Liquid Treatment Processes and Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
7300-719-00	Chemical Pumps	This account includes an allowance for regular refurbishment or replacement, based on a condition assessment, of pumps and related equipment for the delivery of specific chemicals at various treatment unit processes. Chemical pumps include those for ferric chloride, hydrogen peroxide, calcium nitrate, sodium hypochlorite, emulsion polymer, and sodium bisulfite.  FY20 — Replace eight nitrate solution metering pumps and replace one chemical induction mixer.  FY21 — Replace five disinfection (chlorine solution) metering pumps and one chemical induction mixer.  FY22 — Replace five sodium bisulfite metering pumps, two chemical transfer pumps, and one chemical induction mixer.  FY23 — Refurbish one polymer feed pump and one chemical induction mixer. Replace two headworks ferric chloride metering pumps.  FY24 — Replace two polymer activation units in SHB.  FY25 — Replace polymer blend unit (skid) at RDTs.  FY26 -29 — Above allowances to replace chemical pumps based on condition assessment (same budget each year).
7300-720-00	Gates Rehabilitation	See Full Page Description.
7300-727-00	Headworks Equipment	See Full Page Description.
7300-981-00	Odor Control System Improvements	See Full Page Description.
7300-983-00	Process Tank Maintenance	Refurbishment and replacement of mechanical equipment such as drive mechanisms, media vessels, and blowers in all process tanks and systems throughout the treatment facility.  FY20 – Allowance for above equipment, plus refurbish or repair reclaimed water piping which supports tank wash down equipment. Replacement of secondary clarifier and CCT toe kick materials.  FY21 – Replace original blowers and associated diffusers in the aerated grit tanks (Master Plan Project 04-3).  FY22 – Allowance for above equipment, plus perform a condition assessment of siloxane media vessels, hydrogen sulfide media vessels, and appurtenances.  FY23-28 – Allowance for flights/chain/sprockets/wear strips for one primary clarifer each year.  FY29 – General tank related replacement of equipment as determined by condition assessment.
7400-965-00	Primary Clarifiers Rehabilitation	See Full Page Description.

	Liquid Treatment Processes and Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
7300-990-00	Secondary Clarifiers Rehabilitation	See Full Page Description.	
7300-991-00	RAS/WAS Pump Replacement	See Full Page Description.	
7300-995-00	Aeration System Rehabilitation	This new account includes replacement and rehabilitation of aeration system equipment.  FY20 - Blower 2 core refurbishment due to findings on Blower 4.  FY24 - Replace aeration diffuser membranes in all four tanks.	
7400-966-00	Process Piping Inspection/Repairs/ Replacement	See Full Page Description.	
7430-855-00	Chemical Tanks	Replacement of chemical storage tanks used throughout the treatment plant and in the collection system as they approach the end of their service lives. There are five sodium hypochlorite, two sodium bisulfite, two hydrogen peroxide, two polymer, four calcium nitrate, and three ferric chloride tanks. The replacement schedule is subject to change based on annual condition assessment inspection results.  FY20 — Replace one sodium hypochlorite tank and the Paradise nitrate tank (due to construction at Greenbrae).  FY21 — Replace one sodium hypochlorite tank and the Greenbrae nitrate tank.  FY22 — Replace the North Francisco nitrate tank and assess the headworks bulk ferric chloride storage tanks.  FY23 — Consultant to assess the SHB polymer bulk storage tank.  FY24 — Allowance for an unspecified tank replacement.  FY25 — Replace a sodium bisulfite tank. Perform an assessment on the effluent pump station's convault diesel storage tank.  FY26-29 — Allowance for an unspecified tank replacement.	

	Liquid Treatment Processes and Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
7430-857-00	Piping, Valves & Operators	<ul> <li>There are over 750 plug valves in the treatment plant's process systems, ranging in size up to 12" in diameter. This account includes annual allowances for routine maintenance and periodic replacement of these valves, their operators, and associated piping. This allowance may change as on-going condition assessments are completed.</li> <li>FY20 - Replace six 4" Gallery A and nine 6" in Gallery C expansion joints.</li> <li>FY21 - Replace fire protection pipeline and valve system in selected location in the galleries.</li> <li>FY22 - Replace valves associated with Digester No. 1. Include 18" MOVs and actuators based on assessment.</li> <li>FY23 - Replace valves associated with Digester No. 2. Include 18" MOVs and actuators based on assessment.</li> <li>FY24 - Replace the hot water pipe system into the Administration</li> </ul>	
		Building.  FY25-29 – Allowance for repairs as determined by future condition assessments.	
7430-859-00	CCT Valve Rehabilitation	The telescoping valves in the CCTs 1 through 4 are used to remove debris floating on the water surface. There is also a motor operated bar screen that removes debris from effluent that is diverted for recycled water usage.  FY27 — The 2018 Facilities Master Plan recommends replacing the telescoping valves in CCTs 1 through 4 (Master Plan Project 09-2). An option that will be explored is to replace the telescoping valves with rotating pipe skimmers with motorized actuators. This project also includes replacing the recycled water screen.	
7450-104-10	Influent Flow Meter Improvement	Both the 45" San Rafael Interceptor and the 54" Ross Valley Interceptor were fitted with insertion magnetic-type meters in FY 11. Having both the original ultrasonic meters plus the magnetic meters can improve their accuracy in measuring large flow variations.  FY20 — Conduct a flow meter technology study to improve large diameter pipeline flow measurement accuracy.  FY21 — Allowance to install new flow meter technology pending the results of the flow meter technology survey.	

	Solids Treatment and Energy Generation Equipment and Systems		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
7300-678-00	Emergency Generator Assessment & Improvement	The emergency generator provides power to Agency facilities when utility power is not available and the cogeneration system is offline. The emergency generator system was installed in 1985 and consists of an electrical generator connected to a diesel-fueled reciprocating engine. While the equipment is relatively old, it has had minimal usage and is maintained per manufacturer's recommendations.  FY22 – Complete an inspection and major preventive maintenance of the emergency generator and heat exchanger (only complete after temporary emergency generator connection is in place)  FY25 – A consultant will conduct an assessment of the generator for condition, air emissions, and reliability. The budget includes an allowance for a preliminary design report that will include an estimate of the cost to rehabilitate or replace the equipment.  FY26-27 – Allowance to fund design and installation of a replacement emergency generator based on findings of the assessment and preliminary design report.	
7300-691-00	Digester Inspection, Cleaning and Cover Replacement	This account includes allowance for periodic cleaning and inspection of each anaerobic digester every 10 years based on conservative estimates of their membrane covers' service lives. Agency staff will drain the tanks to allow a contractor to remove material that has accumulated inside the tanks. A specialty contractor will replace the membrane covers after the cleaning is complete and then staff will return each digester to service. Project timing may also be adjusted based on actual digester process performance.  FY25 – Allowance to clean and inspect the interior of Digester No. 1 and replace its dual membrane cover.  FY26 – Allowance to clean and inspect the interior of Digester No. 2	
7300-715-00	Centrifuge	and replace its dual membrane cover.  See Full Page Description.	
7300-722-00	Maintenance Cogeneration Maintenance	See Full Page Description.	
7300-729-00	New Cogeneration System	See Full Page Description.	
7300-724-00	Hot Water Systems	Repair and replacement of hot water system pumps, valves, flex fittings, insulation, and piping as needed to maintain the system that supplies hot water to the digesters, other Agency facilities, and the Administration Building.  FY20-26 — Replace aging insulation and/or install PVC jacketing on hot water pipes in Galleries A, B, C, and F and the Carport Area according to insulation replacement schedule.  FY20-29 — Annual allowance for system repairs as needed, failing valves, piping leaks, booster pumps, and seals.	

	Solids Treatment and Energy Generation Equipment and Systems		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
7300-728-00	Digester Mixing Pump Study	The 2018 Facilities Master Plan noted that the digester mixing pumps have significant vibration and there are cracks in the pump room walls. In FY19 staff installed VFDs on the pumps and began evaluation of potential pump speed changes to alleviate vibration which, if found feasible, would be implemented and monitored through FY20.  FY22 — Depending on staff findings of pump speed change evaluation in FY20, conduct a consultant-led study to investigate the cause of the digester mixing pump vibration, any potential relationship to cracks in the pump room walls, and the need for an additional support system for the suction and discharge pipes. Depending on the results of the organic loading rate pilot study and future direction of the organic waste program, the digester mixing pump study would also explore options for additional mixing system improvements to enable an expanded co-digestion program (i.e. higher digester solids content).	
7300-725-00	Boilers and Gas Processing	Scheduled inspection, repair, and/or replacement of boiler tubes that are used to heat water for the Agency's hot water systems when the cogeneration engine is offline.  FY20 — Allowance for canister and de-mister filters and psi regulating fuel valves.  FY25 — Replacement of two existing boilers, upgraded to meet future Bay Area Air Quality Management District requirements.	
7300-977-00	Sludge Recirculating Pump Grinders	An annual allowance for replacement of one to two sludge grinders' high-wear cutter cassettes.	
7300-978-00	Biosolids Hoppers Maintenance	An allowance for monitoring and minor repairs to biosolids hoppers, gates, and hydraulic actuators. When centrifuges are scheduled for replacement, improvements to the hoppers will be coordinated with that project.  FY20-29 – Allowance for minor maintenance of mechanical equipment every other year.	

# CENTRAL MARIN SANITATION AGENCY CAPITAL IMPROVEMENT PROGRAM - ACCOUNT / PROJECT DESCRIPTIONS ADOPTED FY20 & FY21 BUDGET AND 10-YEAR PROJECTION

	Solids Treatme	nt and Energy Generation Equipment and Systems
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
7300-980-00	Organic Waste Receiving Facility	New account for repairs and replacement of pumps, valves, monitors, and other equipment in the Organic Waste Receiving Facility (OWRF). Due to the high solids content and low pH of the organic slurry, equipment in the OWRF requires frequent repairs and/or replacement. The annual allowance is based on the cost of equipment typically consumed in a year.  FY20 — Allowance for one piston style pump to replace one hose pump and two mixing pumps.  FY21 — Allowance for two mixing pumps or technology transition to propeller or other mixers.  FY22 — Replace mixing pump check valves, two mixing pumps, and
		paddle finisher paddles and screen.  FY23 – New FOG/OW 4" receiving and 6" sludge recircirculation MOVs and new hot water cleaning system (stationary steam cleaning system). Two mixing pumps if still utilizing this technology. Install above ground FOG storage tank after new cogeneration system is online in order to provide additional FOG storage capacity to maximize the generation of tipping fee revenues and maximize the export of renewable power to the grid at all times of the day.  FY24 – MCC AC unit and PLC upgrade.  FY25-29 – Annual allowance for equipment repairs.
7300-660-00	PG&E Interconnection Agreement Modification	Based on the actual cost for the previous PG&E Interconnection Agreement Modification, an allowance is included for a new PG&E Interconnection Agreement Modification in FY20 & FY21 associated with the design and construction of the new cogeneration system.  FY20-21 — Allowance for any modifications during the new cogeneration system design and construction.
No Account Number	CMSA Staff Costs for CIP Projects	Capitalization of compensation and benefits for CMSA staff time to manage design of, contracting for, and construction of CIP projects, as listed below. Costs are based on estimated staff time totaling two Full Time Equivalencies (FTEs). Costs for future years will be modified for each current fiscal year in that year's CIP budget. The projects identified for staff cost capitalization in FY20 & FY21 are:  7300-720-00 Gates Rehabilitation  7300-983-00 Process Tank Maintenance  7300-990-00 Secondary Clarifiers Rehabilitation  7400-960-00 Facility Roofs Rehabilitation  7450-105-00 Electrical Distribution System Rehabilitation  7300-715-00 Centrifuge Maintenance  7300-991-00 RAS/WAS Pump Replacement  7300-729-00 New Cogeneration System

	Effluent Storage Pond Rehabilitation (GL 7300-103-10)				
Type of Project	Design and Capital Construction	Lead Department	Technic	cal Services	
Project Delivery	Formally Bid				
Description and Justification	The effluent storage pond was constructed over a deep layer of Young Bay Mud that settles unevenly under the pond. This causes loss of capacity due to berm settling, and small areas of shallow standing water after the pond is emptied due to bottom settling. The berm was reconstructed and raised in 2007, including a new geotextile liner and new sections of intake and outlet piping. There is an allowance for surveying in FY25 and potential renovation of berms and bottom in FY26, depending on the survey results.				
Risk Assessment	This is a low risk project because berm settlement does not occur rapidly. Berm condition will be regularly monitored and the survey timing can be adjusted if necessary.				
Schedule	Activity Description Cost				
FY25	Survey and design improvements to pond bottom for excessive or uneve	· ·	and	41,300	
FY26	Based on survey results, allowance for re-grading the pond bottom and/or raising the berm, including extending and re-anchoring the buried extra liner material and rebuilding the service road on top of the berm				
		Proje	ct Total	\$1,347,800	



Effluent Storage Pond

	Facility Roofs Rehabilitation	n (GL 7400-960-00)		
Type of Project	Design and Capital Construction	Lead Department	Techni	cal Services
<b>Project Delivery</b>	Maintenance Contract/Informally Bid/Formally Bid			
Description and Justification	In FY15, the Agency had a roofing expert survey all its building roofs. The assessment indicated that the original standing seam metal roofs are in good condition. Therefore, planned replacement of the roofs has been postponed. This item contains allowances to rehabilitate portions of the standing seam metal and built-up roofs as needed, and to perform minor repairs on their supporting structures, if required. The various agency built-up roofs were mostly re-done around 2007 and are not expected to require full replacement until around 2030. Allowances are included below for minor repairs on the built-up and standing seam roofs until their complete replacement.			
Risk Assessment	This is a medium risk project as the fall 2018 roof inspection indicated that the roof systems are generally in good condition, with the exception of the items described above.			
Schedule	Activity Description			Cost
FY20	Aging portions of the Administration will be repaired and the cost was est Fall 2018 roofing expert survey estim documents to bid and perform a con structural repairs, and/or seismic upg	imated at 15 percent of nate. Prepare constructi tract for roof system re	f the ion	68,500
FY22	Complete similar work to above row Maintenance building.	on aging portions of th	e	68,500
FY22	Repair Solids Handling Building roof i cogeneration project.	n conjunction with		160,100
FY23-25	Annual allowance to patch repair fac up roof areas as needed before full r			76,700
FY26	Condition Assessment of Agency roo	fs.		20,000
FY27	Allowance for repairs depending on (	Condition Assessment r	esults.	150,000
FY23-29	Annual allowance to patch repair fac up roof areas as needed before full r			56,400
		Projec	ct Total	\$600,200



Maintenance Building with standing seam metal roofs

Soli	Solids Handling Building Elevator Control Replacement (GL 7400-967-00)				
Type of Project	Design and Capital Construction	Lead Department	Technic	cal Services	
<b>Project Delivery</b>	Informally Bid				
Description and Justification	The 2018 Facility Master Plan condition assessment initially recommended replacing the entire elevator (Master Plan Project 12-5) of the Solids Handling Building (SHB). After further discussions with staff and reviewing inspection reports, it was determined that the mechanical components of the elevator still have several years of remaining life. However, the control system will need to be replaced due to age and issues that have required increased maintenance in recent years.				
Risk Assessment	This is a medium risk project. The control system has required increased maintenance and will potentially not pass an annual inspection in the near future if it is not replaced.				
Schedule	Activity Description Cost				
FY20	Major elevator maintenance to ensu	re compliance with per	mit.	15,000	
FY23	Replace the SHB elevator control sys	tem.		103,500	
	Project Total \$118,500				



Solids Handling Building Elevator



Elevator Control Panel

	Facility Structures Seismic Study (GL 7400-963-00)			
Type of Project	Design and Capital Construction	Lead Department	Technic	cal Services
Project Delivery	Professional Services Agreement			
Description and Justification	The 2018 Facility Master Plan recommends conducting a study to evaluate seismic impacts due to soil settlement (Master Plan Project 99-1). Subsidence of the ground has been observed in multiple locations throughout the facility, including in the immediate areas around process tanks. Because structures were constructed on pile foundations, the settlement has produced gaps under the bottom of the structures. It is possible that the original seismic design was dependent on the tops of the piles being at grade and fully supported. With the tops of the piles currently above grade and exposed, the unsupported pile length may be overstressed during an earthquake resulting in structural damage. Ground settlement may have also affected the stresses on buried piping between process areas.			
Risk Assessment	This is a medium risk project due to the unknown risk posed to facility structures resulting from soil settlement.			
Schedule	Activity Description			Cost
FY21	Conduct a study to quantify the risk of structural damage due to soil settlement and identify future structural improvement projects, if necessary.  207,000			
		Projec	t Total	\$207,000



Stair modifications to account for settlement



Exposed bottom of process tank

	Electrical Distribution System Rehal	oilitation (GL 7450-105	-00)			
Type of Project	Design and Capital Construction	Design and Capital Construction Lead Department Technical Services				
<b>Project Delivery</b>	Professional Services Agreement/Formally Bid					
Description and Justification	The 2018 Facility Master Plan recommends replacing the main electrical switchgear components that distribute power throughout the facility (Master Plan Project 14-1). The existing switchgear electrical components are mostly comprised of equipment from 1985. While most of the equipment is operational, it is increasingly difficult to locate replacements because manufacturers no longer provide full technical support. A detailed assessment of the equipment is proposed to evaluate the cost, siting impacts, and construction sequencing and timing considerations for full equipment replacement, while also factoring in potential future load increases for the facility. In parallel, an inspection and in-place refurbishment of existing equipment will be completed, and minor improvements will be constructed including HVAC improvements and provisions for the connection of a temporary emergency generator. This project also includes allowances to replace motor control centers (MCCs) located in several treatment process areas when condition assessment findings warrant replacement.					
Risk Assessment	This is a high risk project because a fasignificant process disruption, potential downtime that could result in dischar	tially resulting in shutdo	owns or s	ignificant		
Schedule	Activity Description			Cost		
FY20	Assessment of switchgear replaceme in-place refurbishment of existing eq	·	on and	110,000		
FY21	Design and construction of HVAC and interconnection improvements.	d emergency generator		105,000		
FY23	Allowance to refurbish or replace a Nassessment findings. Design of main			474,784		
FY24	Main switchgear replacement.			2,335,700		
FY25	Allowance to refurbish or replace a Nassessment findings.	ACC based on condition	1	203,000		
FY27	Allowance to refurbish or replace a Nassessment findings.	ACC based on condition	1	211,800		
		Proje	ct Total	\$3,440,284		



Switchgear building and transformer



Switchgear equipment

	Biotower Rotary Distributor Repla	cement (GL 7300-685-0	00)
Type of Project	Design and Capital Construction	Lead Department	Technical Services
<b>Project Delivery</b>	Informally Bid		
Description and Justification  Risk Assessment	The biotowers are the first of two secondary treatment processes, and remove some of the biochemical oxygen demand from the primary effluent before treatment in the aeration tanks. The rotary distributor is the critical moving part, spreading wastewater evenly on the filter media. These critical components operate in a harsh environment with a 25- to 30-year life expectancy. The rotary distributor and top level of filter media in Biotower No. 1 were replaced in 2010. The 2018 Facility Master Plan recommends replacing the rotating mechanism and media in Biotower No. 2 (Master Plan Project 06-2).  This is a medium risk project. The rotary distributer is operating but has significant corrosion. The upper media bed needs to be replaced due to weather damage. The		
	project description and timing has changed based on the Facilities Master Plan findings.		
Schedule	Activity Description		Cost
FY25	Replace galvanized-steel distributor spreader nozzles with a motor-opera distributor bearing. Replace or recoawhich the mechanism turns. Replace subject to weather damage.	ited mechanism. Replace t the cast iron turntable	e on
	•	Proje	ct Total \$1,009,300



Original base & turntable, Biotower No. 2



New rotary distributor, Biotower No. 2

	Gates Rehabilitation (G	L 7300-720-00)			
Type of Project	Design and Capital Construction	Lead Department	Technical Services		
Project Delivery	Maintenance Project/Informally Bid				
Description and Justification	There are several large gates that control flow into, through, and between processes. The gates are also used to isolate process tanks for repair or maintenance. When condition assessments warrant, these gates will be replaced with stainless steel gates, which have a longer service life because they have better corrosion resistance and sealing surfaces that can be refurbished. This account includes two projects recommended in the 2018 Facility Master Plan. The first project is the replacement of the hydraulic system used to open and close primary clarifier gates with an electronic actuator system that will be operated in SCADA (Master Plan Project 04-1). The second project is the replacement of the three influent gates of Chlorine Contact Tanks (CCTs) 1 through 4 (Master Plan Project 09-1).				
Risk Assessment	This is a medium risk project, provided the gates are replaced according to condition assessment findings. However, the risk could be higher if a gate fails in a closed position, which could lead to a process interruption or overflows.				
Schedule	Activity Description		Cost		
FY20	Complete majority of work on the Pr Actuators Replacement project whic Replace Ross Valley and San Rafael in headworks building and other gates submarine outfall isolation valve.	h begun in FY19.	469,50		
FY21-23	Allowance to replace gates as neede assessment.	d based on condition	243,50		
FY24	Replace CCTs 1 through 4 influent ga	tes.	437,70		
FY25-29	Allowance to replace gates as neede assessment.	d based on condition	451,60		
		Projec	ct Total \$1,602,30		



Hydraulic gate actuator



San Rafael and Ross Valley influent gates

	Headworks Equipment (GL 7300-727-00)			
Type of Project	Design and Capital Construction	Lead Department	Technic	al Services
<b>Project Delivery</b>	Maintenance Project			
Description and Justification	Equipment in the headworks building is used to collect, transport, dewater, and store screenings and grit from plant influent. Headworks equipment includes screens, hydraulic systems, grit hoppers, grit classifier, grit pumps, and augers. This equipment operates in a very corrosive and erosive environment and requires ongoing maintenance and refurbishment or replacement. This account includes two projects recommended in the 2018 Facility Master Plan. The first project is the replacement of the hydraulic pumps and control system used to open and close headworks gates (Master Plan Project 04-1). The second project is the replacement of the four original grit classifier systems with new grit classifiers (Master Plan Project 04-2).			
Risk Assessment	This is a low risk project because most of the Headworks equipment has redundant equipment that allows the plant to operate when one piece of equipment is out of service for maintenance.			
Schedule	Activity Description			Cost
FY20-22	Allowance to replace equipment as a assessment.	needed based on condit	ion	88,700
FY23	Remove the hydraulic control system unit with associated pumps and con-	•	aulic	361,100
FY24	Allowance to replace equipment as a assessment.	needed based on condit	ion	31,500
FY25-26	Replace four grit classifier systems in piping, and controls.	ncluding associated pum	ips,	1,311,800
FY27-29	Allowance to replace equipment as a assessment.	needed based on condit	ion	102,900
		Projec	ct Total	\$1,896,000



Hydraulic control system



Grit classifier

	Odor Control System Improvements (GL 7300-981-00)				
Type of Project	Design and Capital Construction	Lead Department	Technica	al Services	
Project Delivery	Professional Services Agreement/Formally Bid				
Description and Justification	Some wastewater treatment processes produce odorous and/or corrosive gases. The existing odor control scrubbers serve as one component of the Agency's overall odor control management program. Odor control scrubbers located in the Headworks, Biotower basement, and Solids Handling Building (SHB) are approaching the end of their service lives. A consulting firm prepared a conceptual design report with limited sampling to evaluate the overall scrubber performance and cost estimates to replace each unit with activated carbon media systems. While sampling showed existing scrubbers were not overly efficient, they are capable of removing odors to a level that did not impact the Agency's surrounding neighbors. The 2018 Facilities Master Plan considered the conceptual design report findings and recommends replacing the Headworks and Biotower odor scrubbers (Master Plan Project 06-3). An allowance for this replacement as well as the SHB odor scrubber replacement has been included in the CIP and will be evaluated in future years depending on actual system performance.				
Risk Assessment	This is a low risk project because th issues.	e odor scrubbers are op	perating w	ith minor	
Schedule	Activity Description			Cost	
FY20	Replace the SHB failed odor scrubb	er fan.		20,000	
FY24	Placeholder for removing the Head replace with an activated carbon sc		ıd	2,003,600	
FY26	Remove the Biotower basement od a single activated carbon scrubber.	lor scrubbers and replac	ce with	2,276,800	
FY27	Allowance to design and construct s	scrubber replacement i	n the	1,546,800	
		Proje	ect Total	\$5,847,200	



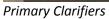
Headworks odor control scrubber



Solids Handling Building odor control scrubber

	Primary Clarifiers Rehabilitation (GL 7400-965-00)			
Type of Project	Design and Capital Construction	Lead Department	Techni	cal Services
<b>Project Delivery</b>	Maintenance Project/Formally Bid			
Description and Justification	There are seven primary clarifiers in the treatment plant. Five of the clarifiers were installed during the original plant construction and two were installed during the Wet Weather Improvement Project. The mechanical equipment in the five original clarifiers has been upgraded to non-corroding, non-metallic components. However, other metal surfaces in the tanks require periodic industrial coating. Additionally, the mechanical equipment also requires periodic replacement. The 2018 Facilities Master Plan recommends a project to address work noted above plus repairing concrete damage and replacing metal piping with PVC piping (Master Plan Project 05-1). As each primary clarifier is taken down, the north walls, which have been found to be leaking into Gallery A at times, will be prepared and coated with a waterproofing product. Note: Additional allowance for flights/chains/sprockets/wear strips is included under the Process Tank Maintenance account and work may be combined with the work in this account if synergies are found during design.			
Risk Assessment	This is a low risk project because the planned work will be conducted in the summer when primary clarifiers can be out of service for extended periods of time.			
Schedule	Activity Description			Cost
FY20	Replace all primary scum skimmer di through 5.	rives in Primary Clarifier	s No. 1	35,000
FY22	Repair concrete, waterproof, and rec No. 1, replace metal launders with F			369,800
FY23	Repeat elements above for Clarifier	No. 2.		400,300
FY24	Repeat elements above for Clarifier	No. 3.		408,900
FY25	Repeat elements above for Clarifiers	No. 4 and 5.		835,300
FY27-28	Allowance for industrial coatings in C	Clarifier No. 6 and 7.		325,900
		Projec	ct Total	\$2,375,200



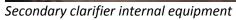




Primary Drive Unit

	Secondary Clarifiers Rehabilitation (GL 7300-990-00)				
Type of Project	Design and Capital Construction	Lead Department	Technical Sei	vices	
Project Delivery	Professional Services Agreement/For	rmally Bid			
Description and Justification	There are four secondary clarifiers in the treatment plant. The 2018 Facilities Master Plan recommends a project to repair corrosion on mechanical equipment, metal structural components, and internal pipes, resurface the effluent trough concrete, retrofit the catwalk with FRP grating, and repair corrosion on piping in the sumps in the pump room for each clarifier (Master Plan Project 08-1). While each clarifier is out of service, the large drive turntables in Clarifiers No. 1, 3, and 4 will be replaced. The turntable drive for Clarifier No. 2 was replaced in 2011.				
Risk Assessment	This is a high risk project because failure of a secondary clarifier could lead to treatment plant process disruptions and possible discharge of effluent that does not meet NPDES treatment limits.				
Schedule	Activity Description		Cost		
FY20	Allowance for design/construction m begin construction for Clarifier No. 3 the turntable drive.	•		185,000	
FY21	•	Complete Clarifier No. 3 construction and begin construction for Clarifier No. 4 as noted above and replace the turntable drive.			
FY22	Complete Clarifier No. 4 construction and begin construction for Clarifier No. 1 as noted above and replace the turntable drive.				
FY23	Complete Clarifier No. 1 construction Clarifier No. 2 as noted above.	n and begin construction	n for	287,800	
FY24	Complete Clarifier No. 2 construction	າ.		156,700	
	Project Total \$1,249,100				







Secondary clarifier in operation

	RAS/WAS Pump Replacement (GL 7300-991-00)											
Type of Project	Design and Capital Construction	Lead Department	Technic	cal Services								
Project Delivery	Formally Bid											
Description and Justification	The 2018 Facilities Master Plan recorn Activated Sludge (RAS) and Waste Activated Sludge (RAS) and Waste Activated Sludge (RAS). These pumping systludge treatment process and are more are currently operating without major corrosion and leaks. This project will as needed to provide increased ability future. The design phase will investigate only with diversion valves to split Waster to split with the design and the timing can be during design and the timing can be design.	ctivated Sludge (WAS) prestems are an integral prostly original equipment or issues, many of the preplace the pump system to isolate pumps for use if it is possible to use and RAS. Note: Projecojects in the future if system is system to the system of the system.	oump system of the t. While the umps have the tended and it is the control of the tended and the	tems (Master e activated the systems we moderate install valving ince in the RAS pump ints may be								
Risk Assessment												
Schedule	Activity Description			Cost								
FY21	Determine if WAS pumps can be eliminated and prepare design documents. 389,700											
FY22-23	Construction of pump system improv	vements.		1,559,000								
		Proje	ct Total	\$1,948,700								



RAS and WAS pumps

	Process Piping Inspection/Repairs/Re	placement (GL 7400-96	56-00)								
Type of Project	Design and Capital Construction Lead Department Technical Services										
<b>Project Delivery</b>	Professional Services Agreement										
Description and Justification	The San Rafael and Ross Valley Interceptors are large diameter buried force mains and are the only pipelines that convey wastewater from the satellite collection agency service areas to CMSA. There are also several large diameter pipelines within the facility that transfer water between treatment processes, including the Primary Effluent and the RAS pipelines. The treatment plant pipelines contain elastomeric joints that are nearing the end of their service lives. Inspecting these critical buried pipe flex joints may require a diver inspection or robotic inspection technology because the pipelines are difficult to keep dewatered. The 2018 Facilities Master Plan recommends two pipe repair projects in the galleries. The first project addresses corrosion on the 54-inch effluent pipe in Gallery C (Master Plan Project 10-1). The second project addresses repairs to chemical containment lines that are routed throughout the gallery system (Master Plan Project 00-2).										
Risk Assessment	This is a medium risk project because the condition of the pipelines and flexible joints is unknown. However, the pipelines have not leaked or shown signs of corrosion.										
Schedule	Activity Description			Cost							
FY20	Interior inspection of the pipelines, elastomeric joints, and selected sumps, with possible uncovering of the exterior of some buried joints throughout the facility. Includes possible internal sealing of some or all of the elastomeric joints and external pipe repairs. Steel plates will also be added to both ends of the 54-inch storage pond effluent line and the small drain line into the 54-inch will be relocated and the damaged concrete near the 54-inch valve will be repaired.										
FY25	Complete a corrosion assessment of the 54-inch storage pond discharge pipe. 50,000										
FY26	Replace chemical lines located along gallery walls with double contained PVC pipe and explore opportunities to relocate chemical piping to the bottom of the pipe rack.										
FY27	Allowance to inspect the San Rafael	and Ross Valley Interce	ptors.	163,400							
	Project Total \$547,200										



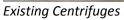
Biotower effluent pipe



Primary Effluent pipe manifold

Centrifuge Maintenance (GL 7300-715-00)													
Type of Project	Design and Capital Construction												
<b>Project Delivery</b>	Project Delivery Professional Services Agreement/Formally Bid												
Description and Justification	The Agency dewaters digested sludge with three high-speed centrifuges that rotate at high speeds to remove water and produce biosolids. The high-speed rotation and corrosive operating environment necessitate a significant amount of routine maintenance for optimum performance. A manufacturer performed condition assessment of the three centrifuges in 2016 found they were all in relatively good condition. The 2018 Facilities Master Plan recommends replacing the existing centrifuges with new centrifuges that have larger capacity to handle the potential increase in biosolids related to increased delivery of organic waste. However, the timing of those increased biosolids loads is still uncertain and may take many years to materialize (if ever). Therefore, routine maintenance and refurbishment of the existing centrifuges will continue on a regular schedule until FY29, at which point the centrifuge system will be re-evaluated in its entirety in combination with the confirmed biosolids loadings at that time. The biosolids hoppers underneath the centrifuges have corrosion and operators are unable to switch between hoppers, resulting in unforeseen hopper overflows at times and imperfect truck filling. Options for the biosolids hoppers will be evaluated at the												
Risk Assessment	This is a medium risk project because the centrifuges would be over 25 years old before being fully replaced, however with proper maintenance the existing centrifuges are expected to operate and meet the Agency's needs. Project timing will be revisited with each annual CIP update based on the latest centrifuge system performance and condition.												
Schedule	Activity Description Cost												
FY21	Evaluate hopper system condition, identify options for 50,000 improvements, and develop estimates of associated costs.												
FY23	Begin design of centrifuge replacem	ent.		521,800									
FY24	Construct the centrifuge replacemen	nt.		2,820,500									
		Proje	ct Total	\$3,392,300									







Biosolids Hoppers

	Cogeneration Maintenance	e (GL 7300-722-00)						
Type of Project	Larger Maintenance Activities	Lead Department	Mainter	nance				
<b>Project Delivery</b>	Maintenance Project/Informally Bid	Formally Bid						
Description and Justification	The cogeneration system runs continuously, utilizing biogas and natural gas to generate most of the Agency's electrical power and to supply the Agency's hot water needs. This account includes allowances for purchasing critical spare parts and to perform larger maintenance activities for the existing engine and generator. Larger maintenance activities include on-site upper- and lower-end rebuilds involving the cylinder heads and liners, valves, and pistons; or off-site overhaul work that includes a complete disassembly and reassembly with machining to restore the engine and generator to original factory specifications. The design and construction of a new cogeneration engine is covered in a separate CIP project and scheduled for completion in FY22. After the new engine is operational, the existing engine will rotate into a backup position and run-hour based routine maintenance cost should decrease accordingly, while new cost for the maintenance of the new engine will be added. Due to uncertainty about timing and actual costs, the maintenance costs for the new cogeneration system are currently not included in the CIP and will be updated with actual costs and included in the CIP once the construction of the new cogeneration system nears completion.  The existing engine experienced a catastrophic failure event in May 2019 and is							
Risk Assessment	This is a high risk project because the failure and CMSA will be incurring sign		-	•				
Schedule	Activity Description			Cost				
FY20	Complete major off-site emergency due to catastrophic failure of the en		ngine	400,000				
FY21	Complete routine maintenance of th	e existing engine.		60,000				
FY22	Allowances for routine maintenance facilities, assuming the existing engine hours while in the backup position a engine is operational.	62,700						
FY23	Scheduled top-end overhaul of exist	ing cogeneration engine	e.	150,000				
FY24-29	Allowances for routine maintenance facilities, assuming the existing engir hours while in the backup position a engine is operational.	ne will see only limited i	run-	414,000				
		Proje	ct Total	\$1,086,700				

New Cogeneration System (GL 7300-729-00)											
Type of Project	Design and Capital Construction	Lead Department	Technic	cal Services							
Project Delivery	Formally Bid										
Description and Justification	This account includes allowances for designing and constructing a new cogeneration engine as recommended in the 2017 Master Plan and 2018 Cogeneration Predesign. On-going major maintenance activities on the existing and new (once constructed) cogeneration engines are covered in a separate CIP project. The design of the new cogeneration system is planned to begin in FY20 and construction would occur in FY21 and FY22. This schedule coincides with the expansion of the OWRF program and the Agency's ability to sell excess power through a new PG&E Interconnection Agreement and power sale agreement with Marin Clean Energy. The existing cogeneration engine will remain available as a backup unit. Due to budgeting constraints and other reasons explained in the 2018 Cogeneration Predesign, design of additional improvements to the cogeneration and gas treatment system will occur in FY23 that would improve operations and maintenance of the system. Construction of said improvements would occur in FY24. These additional improvements include a new lubrication oil system and waste coolant system, addition of biogas flow meters, controlled biogas recycle lines, redundant biogas chillers, and modifications to the biogas condensate										
Risk Assessment	This is a low risk project because the extended period of time if properly r the opportunity to generate addition	maintained. However, t	he Ageno	cy would lose							
Schedule	Activity Description			Cost							
FY20	Design replacement cogeneration te (Including \$15,000 allowance for final		598,226								
FY21	Procure and install replacement coge	eneration technology.		5,063,164							
FY22	Complete installation of a replacement	ent cogeneration techno	ology.	1,687,721							
FY23	Design additional cogeneration syste	em improvements.		114,000							
FY24	Procure and install additional cogene	eration system improve	ments.	1,559,700							
		Proje	ct Total	\$9,022,811							



Existing cogeneration system

Nutrient Removal (7300 992-00)											
Type of Project	Planning and Design	Lead Department	Technical Services								
<b>Project Delivery</b>	Formally Bid										
Description and Justification	The 2019 Bay Area Watershed Perm for CMSA beginning in 2024 which is CMSA's typical 2018 nitrogen dischargowth and future increases of the or above its nitrogen cap by 2024. Sit the exact nature of the Regional Water in 2024, and specifically if, when, and a non-trivial probability that CMSA we 2029 or even much later permit cycle. However, in the event that it become cap, staff would propose to study and thoughtful and systematic manner as potential compliance timelines is known related optimization measures that recompliance at potentially relatively leadditional side benefits like decrease production, and more stable overall.  Due to the uncertain nature of this seconstruction of nutrient removal factor this time.  However, CMSA staff will be closely a developments on a continuous basis	approximately 15 to 20 rge levels. Depending o rganic waste program, gnificant uncertainty exter Board's enforcement how it would be enforwould not be impacted a es.  es evident that CMSA is d plan for potential cons soon as more specific own. There are several pmay facilitate CMSA corow cost. These measured plant power consumptreatment plant or produbject, funds for the plainties at CMSA are not interest and plant power consumptreatment plant or productions.	O percent above In CMSA's service area CMSA may be close to ists at this time about It of the nitrogen caps reed. Therefore there is It all by this cap until  Impacted by a load Inpliance pathways in a Information about Promising process- Infortably meeting It is may potentially have It potentially have It is may be close to Information about Informati								
Diek	impacted by nutrient load targets, staff will update the CIP accordingly.										
Risk Assessment	This is a low risk project because there is still adequate time to prepare for potential future compliance targets if they materialize.										
Schedule	Activity Description		Cost								
	None included at this time.		0								
		Project	Total \$ 0								

#### SECTION 9. FY20 & FY21 Adopted Budget—10-Year Financial Forecast

The Agency adopts with each budget a 10-year financial forecast to accompany it. The forecast is a model of revenues, expenses, capital, and reserves, and essentially sets forth a strategic plan to guide funding-sources-and-uses-decisions for the operating and capital budgets. The financial forecast consists of sections for Preliminary Assumptions, Operating Surplus (Shortfall), Capital Improvement Program, and Reserve Reconciliation.

The first section, preliminary assumptions, is to assign assumption values for expenditures and revenues except regional sewer charges to establish a 10-year forecast for operating and capital programs. The base year of the forecast is the adopted budget for the most recent fiscal year. All future projection values derive from the base year. Amounts for debt service and debt service coverage are specific amounts from the debt service amortization tables. Amounts for the capital improvements program are per the 10-year CIP schedule. Revenue from capacity charges increases annually by the ENR index per the Agency's fee ordinance. The forecast is constructed to project future expenses and capital and to *limit* revenues from service charges and the capital fee only to known values authorized by the Board. In this manner, it will be clearly apparent when there will be a revenue shortfall and how long reserves will last without revenue increases.

The Operating Surplus (Shortfall) section is a summary of the operating budget that reflects a surplus, funded, or a shortfall, not funded. Funding for the operating budget comes primarily from sewer service charges from JPA members together with "all other revenues" such as contract services, programs, hauler, permits, and inspections. Operating expenses includes all expenses except depreciation, debt service, and capital. Debt service and capital are funded from separate dedicated sources.

The next section is the Capital Improvement Program funding. Projects and amounts of the capital improvement program are per the 10-year CIP schedule. Funding for the capital improvement program comes from the capital fee collected from JPA members, the debt service coverage amount also collected from JPA members, capacity charges received from new sewer connections, and from capital reserves.

The last section is a reconciliation of the three types of designated reserves, Unrestricted Operating Reserve, Unrestricted Capital Reserve, and Restricted Capital Reserve. Beginning balances for each of these reserve types is the amount per the Investments Schedule. Unrestricted operating reserves are maintained at 25% of operating costs before debt and capital. Excess amounts of unrestricted operating reserves are transferred to unrestricted capital reserves to be used to fund capital. Restricted capital reserves consist of capacity charges and debt service coverage fees collected and are used exclusively for capital. Any differences to fund capital comes from unrestricted capital reserves.

The financial forecast document is a representation of the model for funding the Agency's operating and capital programs.

					Revenue Pro	ogram Period		Service Charges / Capital Fee as Last Authorized							
			Adopted	Adopted	Adopted				Forecast						
Line			Budget	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9			
No.	Description	Assumption	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28			
	ADOPTED ASSUMPTIONS EDU CMSA	48,279													
	Funding Requirements:														
а	Salaries and wages	3.5%	\$ 5,555,200	\$ 5,693,800	\$ 5,999,600	\$ 6,209,586	\$ 6,426,922	\$ 6,651,864	\$ 6,884,679	\$ 7,125,643	\$ 7,375,040	\$ 7,633,167			
b	Retirement - CalPERS normal cost (Note 2)	Various	597,251	652,500	722,100	769,037	819,024	872,260	928,957	989,340	1,053,647	1,122,134			
С	Retirement - CalPERS UAL (Note 2)	Various	597,749	724,400	850,300	930,749	1,003,715	1,030,619	1,060,249	1,090,731	1,122,090	1,154,350			
d	All other employee benefits	3.0%	1,563,700	1,495,900	1,565,300	1,612,259	1,660,627	1,710,446	1,761,759	1,814,612	1,869,050	1,925,122			
е	Chemicals and fuels	2.0%	1,126,900	1,289,800	1,261,800	1,287,036	1,312,777	1,339,032	1,365,813	1,393,129	1,420,992	1,449,412			
f	Biosolids management	2.0%	400,300	418,500	435,300	444,006	452,886	461,944	471,183	480,606	490,219	500,023			
g	Permit testing and monitoring	1.5%	148,800	143,800	142,500	144,638	146,807	149,009	151,244	153,513	155,816	158,153			
h	Maintenance and repairs	2.0%	363,500	364,700	377,200	384,744	392,439	400,288	408,293	416,459	424,788	433,284			
i	Utilities	3.5%	317,800	486,600	390,400	404,064	418,206	432,843	447,993	463,673	479,901	496,698			
j	Insurance premiums	3.5%	250,800	384,500	405,900	420,107	434,810	450,029	465,780	482,082	498,955	516,418			
k	General and administrative	2.0%	900,000	915,400	879,700	897,294	915,240	933,545	952,216	971,260	990,685	1,010,499			
1	Operating before debt and capital	_	11,822,000	12,569,900	13,030,100	13,503,519	13,983,452	14,431,878	14,898,166	15,381,047	15,881,182	16,399,258			
m	Debt service: actual plus estimated new debt	_	3,973,206	3,967,331	3,957,006	4,612,006	4,611,706	5,306,381	5,308,506	5,303,381	5,352,756	5,310,506			
n	Operating before capital	_	15,795,206	16,537,231	16,987,106	18,115,525	18,595,158	19,738,259	20,206,672	20,684,428	21,233,938	21,709,764			
0	Capital program	_	2,862,500	3,900,626	8,484,664	5,503,521	5,012,184	10,956,300	5,105,100	7,952,200	5,439,600	1,515,200			
р	Total funding requirements		\$ 18,657,706	\$ 20,437,857	\$ 25,471,770	\$ 23,619,046	\$ 23,607,342	\$ 30,694,559	\$ 25,311,772	\$ 28,636,628	\$ 26,673,538	\$ 23,224,964			
	Funding Sources: (Note 3)		3.5%	3.5%	3.5%	3.5%	3.5%	0.0%							
q	Unrestricted - Regional sewer service charges		\$ 10,622,376	\$ 10,994,159	\$ 11,378,955	\$ 11,777,218	\$ 12,189,421	\$ 12,189,421	\$ 12,189,421	\$ 12,189,421	\$ 12,189,421	\$ 12,189,421			
r	Unrestricted - Capital fee (Note 4)		811,259	1,020,824	1,243,030	640,905	865,397	865,397	865,397	865,397	865,397	865,397			
S	Unrestricted - All other revenues	3.0%	1,712,048	2,137,826	2,414,203	2,486,629	2,561,228	2,638,065	2,717,207	2,798,723	2,882,685	2,969,165			
t	Restricted capital - Debt service charge (Note 5)		3,973,206	3,967,331	3,957,006	4,612,006	4,611,706	5,306,381	5,308,506	5,303,381	5,352,756	5,310,506			
u	Restricted capital - Debt service coverage		993,302	991,833	989,252	1,153,002	1,152,927	1,326,595	1,327,127	1,325,845	1,338,189	1,327,627			
V	Restricted capital - Capacity charges	2.6%	30,091	30,873	31,676	32,500	33,345	34,212	35,101	36,014	36,950	37,911			
w	Restricted capital - other financing sources		-	450,000	9,000,000	<i>,</i> -	10,000,000	-	-	-	-	-			
х	Subtotal funding sources before reserve (increase) usage	-	18,142,282	19,592,847	29,014,122	20,702,260	31,414,023	22,360,070	22,442,758	22,518,780	22,665,397	22,700,026			
У	Reserve (Increase) Usage (Note 6)		515,425	845,010	(3,542,352)	2,916,786	(7,806,681)	8,334,489	2,869,014	6,117,848	4,008,141	524,938			
Z	Total funding sources	-	\$ 18,657,706	\$ 20,437,857	\$ 25,471,770	\$ 23,619,046	\$ 23,607,342	\$ 30,694,559	\$ 25,311,772	\$ 28,636,628	\$ 26,673,538	\$ 23,224,964			
aa	Control total	=	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			

#### **NOTES ON FORECAST:**

- 1. The purpose of the above section is to assign assumption values for expenditures and revenues except regional sewer charges to establish a 10-year pro-forma forecast
- 2. Annual increases per CalPERS most recent FY19 actuarial valuation dated Aug 2018 Amortization Schedule and Alternatives
- 3. Funding from JPA agencies increases 3.5% per year for each year of the 5-year revenue plan
- 4. Capital fee remains at last authorized amount in outer years beyond revenue program period
- 5. Assume new debt issue for \$9M in FY21 and \$10M in FY23
- 6. Use of reserves to balance capital except for years where debt proceeds are used
- 7. The above forecast is in the form of a balanced budget and is NOT FUNDING. FUNDING IS SHOWN BELOW IN SECTIONS I, II, and III
- 8. Beginning reserve balances for Section III are per the Treasurer's Report
- 9. Transfer operating surpluses to unrestricted capital reserve as necessary to maintain Board established 25% unrestricted operating reserve
- 10. Transfer unrestricted capital reserves to fully fund CIP Section II until depleted for forecast purposes
- 11. Capacity charges, the debt service coverage fee, the capital fee, and unrestricted capital reserve usage fund the capital program
- 12. Unrestricted operating reserve beginning balance contains amount per treasurer's report plus \$100,000 insurance reserve plus \$250,000 contingency reserve

**Red:** Indicates reserve usage.

Brackets:

Indicates reserve increases.

							Revenue Pro	gran	n Period					ç	ervice Chargo	. / r	Capital Fee as I	ac+	Authorized		
			Adopted		doutod			gran	n Perioa			<u> </u>				s / C	apitai ree as i	.dSt /	Authorizea		
			Adopted		dopted		Adopted		V2		V		V		Forecast		V7		V0		
Line No.	Description	Assumption	Budget FY19		Year 1 FY20		Year 2 FY21		Year 3 FY22		Year 4 FY23		Year 5 FY24		Year 6 FY25		Year 7 FY26		Year 8 FY27		Year 9 FY28
140.	Description	Assumption	1113		1120		1121		1122		1123		1124		1123		1120		1127		1120
	FUNDING FOR PROGRAMS - DETAIL																				
	OPERATING PROGRAM																				
1	Total operating costs before debt and capital	\$	11,822,000	\$ 1	.2,569,900		13,030,100	\$	13,503,519	\$	13,983,452	\$	14,431,878	\$	14,898,166	\$	15,381,047	\$	15,881,182	\$	16,399,258
2	Service charges and other revenues		12,334,424	1	.3,131,985		13,793,158		14,263,847		14,750,649		14,827,486		14,906,628		14,988,144		15,072,105		15,158,586
3	Total operating surplus (shortfall)	<u>\$</u>	512,424	\$	562,085	\$	763,058	\$	760,329	\$	767,196	\$	395,607	\$	8,462	\$	(392,904)	\$	(809,077)	\$	(1,240,672
	CAPITAL IMPROVEMENT PROGRAM																				
4	Total Annual CIP to Fund (10-Year CIP) (Inc debt financed proj)	<u>\$</u>	2,862,500	\$	3,900,626	\$	8,484,664	\$	5,503,521	\$	5,012,184	\$	10,956,300	\$	5,105,100	\$	7,952,200	\$	5,439,600	\$	1,515,200
5	Restricted - other financing sources (e.g., bonds, loans, grants)	\$	-	\$	-	\$	6,218,125	\$	2,781,875	\$	-	\$	8,903,765	\$	1,096,235	\$	-	\$	-	\$	-
6	Restricted - Capacity charges		30,091		30,873		31,676		32,500		33,345		34,212		35,101		36,014		36,950		37,911
7	Restricted - Debt Service Coverage (i.e., covenant req)		992,024		993,302		991,833		989,252		1,153,002		1,152,927		1,326,595		1,327,127		1,325,845		1,338,189
8	Unrestricted - Capital Fee		811,259		1,020,824		1,243,030		640,905		865,397		865,397		865,397		865,397		865,397		865,397
9	Unrestricted - General Cap Rsv (Inc) Draw (step 2)		1,029,127		1,855,627		-		1,058,989		2,960,441		-		1,781,772		2,198,668		-		(726,296)
10	Total Available Funding	\$	2,862,501	\$	3,900,626	\$	8,484,664	\$	5,503,521	\$	5,012,184	\$	10,956,300	\$	5,105,100	\$	4,427,205	\$	2,228,192	\$	1,515,200
11	Control Total / (Unfunded Capital) \$ (6,736,401)	\$	1	\$	(0)	\$	0	\$	(0)	\$	0	\$	0	\$	(0)	\$	(3,524,995)	\$	(3,211,408)	\$	0
	RESERVE RECONCILIATION																				
12	Restricted capital reserve balance - beg (Treas Report)	<u>\$</u>	990,477	\$	991,755	\$	990,287	\$	3,769,581	\$	1,151,456	\$	1,151,381	\$	2,421,284	\$	1,325,580	\$	1,324,299	\$	1,336,643
13	Other financing sources balance - beg		-		-		-		2,781,875		-		-		1,096,235		-		-		-
14	New debt issuance proceeds		-		_		9,000,000		-		-		10,000,000		-		-		-		-
15	Project requisition draws (neg number) (use 1st, then reserve)				-		(6,218,125)		(2,781,875)				(8,903,765)		(1,096,235)		-		-		-
16	Other financing sources balance - end						2,781,875		-		-		1,096,235		_				-		-
17	Capacity charges revenue	·	30,091		30,873		31,676		32,500		33,345		34,212		35,101		36,014		36,950		37,911
18	Capacity charges usage for capital		(30,091)		(30,873)		(31,676)		(32,500)		(33,345)		(34,212)		(35,101)		(36,014)		(36,950)		(37,911)
19	Debt coverage collection - current year		993,302		991,833		989,252		1,153,002		1,152,927		1,326,595		1,327,127		1,325,845		1,338,189		1,327,627
20	Debt coverage usage - prior year		(992,024)		(993,302)		(991,833)		(989,252)		(1,153,002)		(1,152,927)		(1,326,595)		(1,327,127)		(1,325,845)		(1,338,189)
21	Net change	·	1,278		(1,468)		2,779,294		(2,618,125)		(75)		1,269,903		(1,095,704)		(1,281)		12,344		(10,563)
22	Restricted capital reserve balance - end	\$	991,755	\$	990,287	\$	3,769,581	\$	1,151,456	\$	1,151,381	\$	2,421,284	\$	1,325,580	\$	1,324,299	\$	1,336,643	\$	1,326,080
	Unrestricted capital reserve balance - beg (Treas Report)	\$	7,866,245	\$	7,259,692	\$	5,779,175	\$	6,427,183	\$	6,010,168	\$	3,696,940	\$	3,980,440	\$	2,198,668	\$	-	\$	-
23	Capital fee revenue		811,259		1,020,824		1,243,030		640,905		865,397		865,397		865,397		865,397		865,397		865,397
24	Unrestricted operating reserve transfer-in (step 1)		422,574		375,110		648,008		641,974		647,213		283,500		-		-		-		-
25	Capital fee usage to fund CIP		(811,259)	(	1,020,824)		(1,243,030)		(640,905)		(865,397)		(865,397)		(865,397)		(865,397)		(865,397)		(865,397)
26	Unrestricted capital reserve draw (enter CIP control total) (step 2)		(1,029,127)		(1,855,627)				(1,058,989)		(2,960,441)				(1,781,772)		(2,198,668)				726,296
27	Net change		(606,553)		1,480,517)		648,008		(417,015)		(2,313,228)		283,500		(1,781,772)		(2,198,668)		-		726,296
28	Unrestricted capital reserve balance - end	\$	7,259,692	\$	5,779,175	\$	6,427,183	\$	6,010,168	\$	3,696,940	\$	3,980,440	\$	2,198,668	\$		\$	-	\$	726,296
	Unrestricted operating reserve balance - beg (Treas Report) (Note 1	<b>2)</b> \$	2,865,650	\$	2,955,500	\$	3,142,475	Ś	3,257,525	\$	3,375,880	\$	3,495,863	Ś	3,607,970	\$	3,616,432	\$	3,223,528	\$	2,414,451
29	Service charges and other revenues	. ,	12,334,424		.3,131,985	•	13,793,158	•	14,263,847	•	14,750,649	•	14,827,486	•	14,906,628		14,988,144		15,072,105	•	15,158,586
30	Operating expenses		(11,822,000)		.2,569,900)		(13,030,100)		(13,503,519)		(13,983,452)		(14,431,878)		(14,898,166)		(15,381,047)		(15,881,182)		(16,399,258)
31	Unrestricted operating reserve transfer-out (excess or draw) (step 1)		(422,574)	, -	(375,110)		(648,008)		(641,974)		(647,213)		(283,500)		-		-		-		
32	Net change		89,850		186,975		115,050		118,355		119,983		112,107		8,462		(392,904)		(809,077)		(1,240,672)
33	Unrestricted operating reserve balance - end	\$	2,955,500	Ś	3,142,475	Ś	3,257,525	Ś	3,375,880	Ś	3,495,863	Ś	3,607,970	Ś	3,616,432	Ś		Ś	2,414,451	Ś	
34	(25% of operating costs before debt and capital)		25%		25%	<u> </u>	25%		25%	_	25%	<u> </u>	25%		24%	<u> </u>	21%	<u> </u>	15%	<u> </u>	7%
35	Net change		(515,425)	(	(1,295,010)		3,542,352		(2,916,785)		(2,193,319)		1,665,510		(2,869,014)		(2,592,853)		(796,733)		(524,939)
36	Reserve balance total - beg	\$	11,534,481		1,019,056	\$	9,724,045	\$	13,266,397	\$	10,349,612	\$	8,156,292	\$	9,821,802	\$	6,952,789	\$	4,359,936	\$	
37	Reserve balance total - end		11,019,056		9,724,045	\$	13,266,397		10,349,612	\$	8,156,292	\$	9,821,802	\$	6,952,789	\$	4,359,936	\$	3,563,202	\$	3,038,264

					Revenue Pro	ogram Period			Service Charge	es / Capital Fee as	Last Authorized		
			Adopted	Adopted	Adopted				Forecast				
Line No.	Description	Assumption	Budget FY19	Year 1 FY20	Year 2 FY21	Year 3 FY22	Year 4 FY23	Year 5 FY24	Year 6 FY25	Year 7 FY26	Year 8 FY27	Year 9 FY28	
	FUNDING FOR PROGRAMS - SUMMARY (ALTERNATIVE 2d - E	DEBT FINAN	CED SCHEDULED	PROJECTS PLUS	CAPITAL AMOU	NT TO BALANCE	)						
1	OPERATING PROGRAM SUMMARY Annual operating costs for funding	Various	\$ 11,822,000	\$ 12,569,900	\$ 13,030,100	\$ 13,503,519	\$ 13,983,452	\$ 14,431,878	\$ 14,898,166	\$ 15,381,047	\$ 15,881,182	\$ 16,399,258	
2 3 4	Regional service charges Other revenues Total revenues	3.0%	10,622,376 1,712,048 12,334,424	3.5% 10,994,159 2,137,826 13,131,985	3.5% 11,378,955 2,414,203 13,793,158	3.5% 11,777,218 2,486,629 14,263,847	3.5% 12,189,421 2,561,228 14,750,649	0.0% 12,189,421 2,638,065 14,827,486	12,189,421 2,717,207 14,906,628	12,189,421 2,798,723 14,988,144	12,189,421 2,882,685 15,072,105	12,189,421 2,969,165 15,158,586	
5	Operating surplus (shortfall)		\$ 512,424	\$ 562,085	\$ 763,058	\$ 760,329	\$ 767,196	\$ 395,607	\$ 8,462	\$ (392,904)	\$ (809,077)	\$ (1,240,672	
6 7	(Operating reserves at 25% of operating costs - amount) (Operating reserves at 25% of operating costs - percent)		\$ 2,955,500 25%	\$ 3,142,475 25%	\$ 3,257,525 25%	\$ 3,375,880 25%	\$ 3,495,863 25%	\$ 3,607,970 25%	\$ 3,724,541 24%	\$ 3,845,262 21%	\$ 3,970,296 15%	\$ 4,099,815 7%	
	CAPITAL IMPROVEMENT PROGRAM SUMMARY Annual CIP costs for funding \$ 56,731,895		\$ 2,862,500	\$ 3,900,626	\$ 8,484,664	\$ 5,503,521	\$ 5,012,184	\$ 10,956,300	\$ 5,105,100	\$ 7,952,200	\$ 5,439,600	\$ 1,515,200	
9 10 11 12	Capacity Charges Debt Service Coverage (i.e., covenant req) Capital Fee Reserve Funding	2.6%	30,091 992,024 811,259 1,029,127	30,873 993,302 1,020,824 1,855,627	31,676 991,833 1,243,030	32,500 989,252 640,905 1,058,989	33,345 1,153,002 865,397 2,960,441	34,212 1,152,927 865,397	35,101 1,326,595 865,397 1,781,772	36,014 1,327,127 865,397 2,198,668	36,950 1,325,845 865,397	37,913 1,338,189 865,397 (726,296	
13 14	Total Available Funding  Control Total / (Unfunded Capital) \$ (6,736,401)		\$ 2,862,501 \$ 1	\$ 3,900,626 \$ (0)	\$ 8,484,664 \$ 0	\$ 5,503,521 \$ (0)	\$ 5,012,184 \$ 0	\$ 10,956,300 \$ 0	\$ 5,105,100 \$ (0)	\$ 4,427,205 \$ (3,524,995)	\$ 2,228,192 \$ (3,211,408)	\$ 1,515,200 \$ (	
15	(Capital funding ratio - target 70%) Actual AVE	89.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	55.7%	41.0%	100.0%	
16	ANNUAL UNIT COSTS SUMMARY EDU unit count to CMSA w/o SQSP (budget)	48,279	48,279	48,279	48,279	48,279	48,279	48,279	48,279	48,279	48,279	48,279	
17 18	Regional service charge per unit Capital fee per unit		\$ 220.02 16.80	\$ 227.72 21.14	\$ 235.69 25.75	\$ 243.94 13.28	\$ 252.48 17.92	\$ 252.48 17.92	\$ 252.48 17.92	\$ 252.48 17.92	\$ 252.48 17.92	\$ 252.48 17.92	
19	Debt service charge per EDU count fixed per 9-21-16 memo Debt service rate stabilization	48,039	103.38	103.23	102.96	120.01	120.00	138.07	138.13	138.00	139.28	138.18	
			103.38	103.23	102.96	120.01	120.00	138.07	138.13	138.00	139.28	138.18	
	Total annual CMSA charges per unit		\$ 340.21	\$ 352.10	\$ 364.40	\$ 377.22	\$ 390.40	\$ 408.48	\$ 408.53	\$ 408.40	\$ 409.69	\$ 408.59	
	Percent increase from prior year			3.49%	3.49%	3.52%	3.49%	0.00%	0.01%	-0.03%	0.31%	-0.27	
	Control total debt plus coverage to collect 21,435,064 Actual debt plus coverage collected 21,435,064 Difference over (under)			4,959,164	\$ 4,946,258 4,946,258 \$ -	\$ 5,765,008 5,765,008 \$ -	\$ 5,764,633 5,764,633 \$ -	\$ - - \$ -					

						Revenue Pro	ogram F	Period				Service Cl	narges	/ Capital Fee	as Last A	Authorized		
			Adopted	Adopte	d	Adopted						Forecas	t					
			Budget	Year 1		Year 2	`	Year 3	Year 4		Year 5	Year 6		Year 7		Year 8		Year 9
Description		Assumption	FY19	FY20		FY21		FY22	FY23		FY24	FY25		FY26		FY27		FY28
EBT FINANCED SCHEDULED PROJECTS TO AC	COMPANY ALT	ERNATIVE 2d																
PROJECT DESCRIPTION	TOTALS	_							PRO	ECT A	MOUNTS							
New cogeneration system (3)	\$ 8,424,585	ç	· -	- \$	- \$	5,063,164	\$	1,687,721	\$ 114,	000	\$ 1,559,700	Ś	_	Ś	- \$		- \$	
Centrifuge maintenance (3)	3,392,300	,	_	*	-	50,000	*	_,	521,		2,820,500	*	_	-	*	_	•	
Facility roofs rehabilitation (3)	279,200		_		_	-		228,600	25,		25,600		_	_		_		
Fuel storage tanks	121,400		_		_	_		-	121,		23,000		_	_		_		
Electrical distribution system rehabilitation (3)	2,915,484				_	105,000		_	474,		2,335,700							
Bio-Tower rotary distributer replacement	2,313,464		_		_	103,000		_	474,		2,333,700		_	_		_		
			-		-					-			-	-		-		
Gates rehabilitation (3)	79,400		-		-	79,400		-	264	-	24 500		-	-		-		
Headworks equipment	422,200		-		-	29,600		-	361,		31,500		-	-		-		
Process tank maintenance (3)	707,700		-		-	535,800		-	85,		86,900		-	-		-		
Primary clarifiers rehabilitation	809,200		-		-	-		-	400,		408,900		-	-		-		
Secondary clarifiers rehabilitation (3)	679,331		-		-	306,500		-	287,		85,031		-	-		-		
RAS/WAS pump replacement (3)	1,169,200		-		-	389,700		-	779,	500	-		-	-		-		
	-		-		-	-		-		-	-		-	-		-		
Total projects	\$ 19,000,000	. <u> </u>		· \$	<u> </u>	6,559,164	<u> </u>	1 916 321	\$ 3,170,	584	\$ 7,353,831	\$		\$	<u>-</u> \$		- \$	
Fotal projects	7 13,000,000	: <u>=</u>	,	= =	<del></del>	0,333,104		1,310,321	7 3,170	=	7,333,631	= =====================================	=	<del>7</del>	<b>=</b> <u> </u>		<u> </u>	
Issue #1, Closing '20, Pmt strt '21, Loan type	Rev Bd or SRF																	
Close of transaction	FY 2020																	
Repayment begins	FY 2021																	
	\$ 9,180,000																	
Interest rate	3.50%																	
Years amortization	20																	
Estimated payment																		
Estimated payment	3 043,913	!																
Budgeted amount	\$ 646,000	:																
Issue #2, Closing '23, Pmt strt '24, Loan type	Rev Bd or SRF																	
Close of transaction	FY 2023																	
Repayment begins	FY 2024																	
Principal plus estimated 2% cost of issuance																		
Interest rate	3.50%																	
	20																	
Years amortization	70																	

Budgeted amount \$ 718,000

#### SECTION 10. DEBT OBLIGATIONS

The Agency took advantage of historically low interest rates in FY15 by refunding its Series 2006 Revenue Bonds to realize savings through lower interest rates. On April 22, 2015, the Agency issued \$49,310,000 of Series 2015 Revenue Bonds at a premium of \$5,344,174, with an average interest rate of 2.78% percent. The proceeds from the 2015 bonds were placed in an escrow account and used 1) to make debt service payments on the existing Series 2006 Bonds through September 1, 2016, and 2) to redeem the outstanding Series 2006 Revenue Bonds when they became callable. The Agency's sole, ongoing debt service obligation is the Series 2015 bonds, which are fully registered, with principal due annually on September 1, and interest payable semi-annually on March 1 and September 1. The refinancing transaction resulted in cost savings of over \$15 million for the period from FY16 to FY32.

The table below displays the amount of outstanding debt service obligations through FY32.

Refunding Revenue Bonds Series 2015 Debt Service Schedule Remaining to FY32

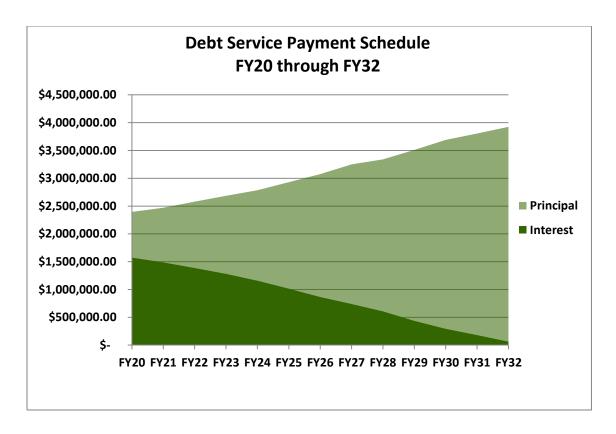
Fiscal Year	Principal	Interest	Total
2019-20	2,395,000	1,572,331	3,967,331
2020-21	2,470,000	1,487,006	3,957,006
2021-22	2,580,000	1,386,006	3,966,006
2022-23	2,685,000	1,280,706	3,965,706
2023-24	2,785,000	1,157,381	3,942,381
2024-25	2,930,000	1,014,506	3,944,506
2025-26	3,075,000	864,381	3,939,381
2026-27	3,250,000	738,756	3,988,756
2027-28	3,340,000	606,506	3,946,506
2028-29	3,510,000	435,256	3,945,256
2029-30	3,690,000	292,156	3,982,156
2030-31	3,805,000	179,731	3,984,731
2031-32	3,925,000	61,328	3,986,328

**Total Refunding Revenue Bond Series 2015 Debt** 

Outstanding as of July 1, 2019 \$40,440,000 \$11,076,050 \$51,516,050

Each JPA Member is obligated to pay its proportionate share of the semi-annual debt service payments, and a payment for debt service coverage (equivalent to 25% of the annual debt service) pursuant to the Debt Service Payment Agreement between CMSA and the Member Agencies, as well as the Master Indenture between CMSA and the Bond Trustee. The proportionate allocation of the debt service payment and coverage to each member is based upon average EDU counts over a 10-year period from the FY07 to the FY16 years reported for the JPA service area. This allocation method smooths out unit count fluctuations and promotes stable/predictable debt service costs to members.

**Debt Limits:** The Agency is an enterprise business activity supported by user fees with no revenues from taxes, and accordingly, is not subject to legal debt limitation.



In accordance with the Agency's Financial Policy on Reserves, debt service coverage funds are restricted for capital project use with the limitation that the amount collected during each fiscal period cannot be expended in the same period. The annual budget appropriates funds from Restricted Reserves for Capital Projects to fund current year Capital Improvement Program (CIP) activities. The FY20 Budget appropriates approximately \$992,000 to be spent from the Restricted Reserves for CIP activities. Because debt service obligations are collected from JPA Members, the existing debt level has little impact on the Agency's current operations. Details for the Agency's FY20 CIP can be found in Section 8 – Capital Improvement Program.

The 10-year table below displays debt service payment and coverage collection since FY11:

Debt Service Charges per Equivalent Dwelling Unit							
	<b>Debt Service</b>			25% Coverage			
Fiscal Year	Charges/EDU	Principal	Interest	Collected			
Series 2015 Revenue Bo	onds						
2019-20	\$95.29	\$2,395,000	\$1,572,331	\$991,833			
2018-19	95.43	2,330,000	1,643,206	993,301			
2017-18	95.16	2,250,000	1,711,906	990,477			
2016-17	94.74	2,195,000	1,773,094	992,023			
2015-16	87.10	2,095,000	1,564,224	914,806			
Series 2006 Revenue Bo	onds						
2014-15	\$110.75	\$2,135,000	\$2,517,501	\$1,163,125			
2013-14	111.69	2,040,000	2,616,539	1,164,135			
2012-13	113.51	1,955,000	2,701,751	1,164,188			
2011-12	106.08	1,880,000	2,775,914	1,163,979			
2010-11	103.95	1,805,000	2,849,708	1,163,677			

#### SECTION 11. KEY TERMS AND FINANCIAL GLOSSARY WITH ACRONYM LISTING

- ASSETS: Anything of material and economic value or usefulness that is owned by the entity.
- BAY AREA CLEAN WATER AGENCIES (BACWA): A joint powers agency formed under the California
  Government Code by the five largest wastewater treatment agencies that provide sanitary sewer
  services to the more than seven million people living in the nine county San Francisco Bay Area. CMSA
  is one of BACWA's 65 principal and associate members.
- BAY AREA CHEMICAL CONSORTIUM (BACC): A cooperative group of over 50 public water and wastewater agencies in northern California whose primary purpose is to seek competitive bids from vendors to supply and deliver chemicals for water and/or wastewater treatment.
- BAY AREA AIR QUALITY MANAGEMENT DISTRICT (BAAQMD): A government agency that regulates sources of air pollution within the nine San Francisco Bay Area Counties.
- **BOND PREMIUM**: A bond that is priced higher than its stated face (par) value.
- **CAPITAL ASSETS**: Includes Agency land, treatment plant, outfall, facilities, buildings, and equipment net of depreciation.
- **CAPITAL EXPENDITURE**: An expenditure of \$5,000 or more that is used to purchase a capital asset with a useful life of one year or more, or an investment that improves the useful life of an existing asset.
- CAPITAL IMPROVEMENT PROGRAM (CIP): A plan that describes and explains the Agency's capital
  and asset management projects, delineated by type of project and funding source, over ten fiscal
  years. The CIP is a planning document that provides the Agency with an opportunity to evaluate and
  assess its capital needs from financial, engineering, operational and planning perspectives.
- **CAPACITY CHARGE**: A one-time fee charged to all new users connecting to, and creating additional demand on, the sanitary and sewer treatment systems and is a funding mechanism by which the cost of the facilities to serve them are paid for. Government code requires capacity charges to fund capital projects.
- **COMPUTERIZED MAINTENANCE MANAGEMENT SYSTEM (CMMS)**: A software program that is used for inventory control, procurement management, fixed asset condition assessment, maintenance repair management, and asset reporting. The Agency uses a CMMS product called NEXGEN.
- CONTRACT SERVICE REVENUES: Services provided by the Agency under contract to other local
  agencies for pump station and collection system maintenance, the various source control programs, a
  new service to assure safe disposal of amalgam and mercury contaminants.
- CURRENT AND OTHER ASSETS: Assets that can easily be converted to cash or consumed within one
  year. Includes cash, investments, receivables, prepaid expenses, deposits with others (example: OPEB
  asset).
- **CURRENT LIABILITIES**: Payment obligations owed by the Agency within the next 12 months.
- **EQUIVALENT DWELLING UNIT (EDU)**: An EDU is one single-family residence.
- **ENTERPRISE FUND**: A government accounting fund that provides goods or services to the public for a fee that makes the entity self-supporting.
- **FLOW(S)**: The total incoming sewage flow(s) to CMSA from JPA member agencies measured in millions of gallons and collected for the previous April 1 to March 31. It is used to calculate the sewer service charge and allocate to each JPA member agency its respective portion of the sewer charge.
- FOG: Fats, Oils and Grease
- **FULL TIME EQUIVALENT (FTE)**: A position converted to a decimal equivalent of a full-time employee position.
- HAULERS, PERMITS and INSPECTION REVENUE: Fees and charges for use of Agency septage receiving facility, permit fees for commercial and industrial waste regulated commercial and industrial dischargers, reimbursement of Agency labor, and administrative costs for performing inspections and other services.

- **INVESTED IN CAPITAL ASSETS, NET OF RELATED DEBT**: Represents amounts invested in capital assets less accumulated depreciation and any outstanding debt used to acquire the assets.
- **JOINT POWERS AGREEMENT (JPA)**: An agreement between two or more local government agencies to form a separate governmental entity distinct from the member governments. It authorizes the powers the JPA is allowed to exercise.
- **LIABILITIES**: What the Agency owes others.
- MCSTOPP: Marin County Stormwater Pollution Prevention Program
- MEDICAL AFTER RETIREMENT ACCOUNT (MARA): An employer paid contribution to participating employee's MARA account. The accumulated funds, owned by the individual, can be spent on qualified medical expenses during retirement.
- **NET POSITION**: The difference between total assets and total liabilities.
- NON-CURRENT LIABILITIES: Payment obligations owed by the Agency more than 12 months in the future.
- NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES): A federal permit that establishes the quality requirements of the Agency's treatment waters, and requires the Agency to manage and maintain pretreatment, pollution prevention, mercury reduction and public education programs.
- OTHER NON-OPERATING REVENUE: Includes CSRMA dividends, CalCARD prompt payment incentive rebates, settlement claims, the occasional sale of assets, SDI disability reimbursements, and other miscellaneous revenue sources.
- OPEB: Other post-employment benefits which are specifically medical benefits for retired employees.
- POST-EMPLOYEMENT HEALTH PLAN (PEHP): An employer paid contribution to participating employee's PEHP account has replaced the MARA. The accumulated funds, owned by the individual, can be spent on qualified medical expenses during retirement.
- **PEPRA**: Public Employees' Pension Reform Act established a cap on the amount of compensation that can be used to calculate a retirement benefit for new public employees hired on or after January 1, 2013.
- PROGRAM REVENUES: The Agency is the lead coordinator for the Safety Director, Countywide Education, and Outside Safety Training programs. Costs incurred by CMSA are allocated to the districts that participate in the programs. The Agency invoices participating districts quarterly for Safety Director and Countywide Education expenditures in accordance with agreements with program participants.
- RESTRICTED CASH: Cash and investments not available for immediate use and set aside for specific, contractual purposes.
- **REVENUE BOND**: Debt obligation for which interest and principal payments are secured by the debt service portion of service charge revenues.
- **SANITARY DISTRICT No. 2 (SD#2):** SD#2 is a CMSA JPA member, and comprises the Town of Corte Madera and unincorporated properties on the Tiburon peninsula.
- **SERVICE CHARGE**: A fee for wastewater treatment service and payment of the revenue bond debt service.
- **UNRESTRICTED CASH**: Cash and investments available to use for operations and not tied to a specific expenditure or reserve.
- WATER ENVIRONMENT FEDERATION (WEF): A not-for-profit technical and educational organization of 36,000 individual members and 75 affiliated Member Associations representing water quality professionals around the world.

#### **ACRONYM LISTING**

ADC Actuarial Determined Contribution

AM Asset Management

AOWP Adult Offender Work Program

BACC Bay Area Chemical Consortium

BACWA Bay Area Clean Water Agencies

BAPPG Bay Area Pollution Prevention Group

BAAQMD Bay Area Air Quality Management District

BOD Biological Oxygen Demand

BOY Beginning of Year

CAFR Comprehensive Annual Financial Report

CalPERS California Public Employees' Retirement System

CAMP California Asset Management Program
CASA California Association of Sanitation Agencies

CCI Construction Cost Index and/or City Cost Index (ENR.com)

CIP Capital Improvement Program

CMMS Computerized Maintenance Management System

CMSA Central Marin Sanitation Agency

COLA Cost of Living Adjustment

CoM County of Marin

CPI Consumer Price Index

CSRMA California Sanitation Risk Management Authority

CUPA Certified Unified Program Agencies

CWEA California Water Environment Association

DAFs Dissolved Air Flotation Thickeners

EDU Equivalent Dwelling Unit

EE Employee

ELAP Environmental Laboratory Approval Program

ENR Engineering News-Record

ER Employer F2E Food-to-Energy

FOG Fats, Oils, and Grease program (see Contract Service Revenues)

FTE Full Time Equivalent

FW Food Waste FY Fiscal Year

GASB Government Accounting Standards Board GFOA Government Finance Officers Association

G&A General & Administrative

IW Industrial Waste

JPA Joint Powers of Authority

LAIF Local Agency Investment Fund (see Interest Income)

LARK City of Larkspur

LGVSD Las Gallinas Sanitary District (see Contract Service Revenues)

MARA Medical After Retirement Account

MSS Marin Sanitary Service

NACWA National Association of Clean Water Agencies

NBWA North Bay Watershed Association

NPDES National Pollutant Discharge Elimination System

OPEB Other Post-Employment Benefits (retiree medical benefits)

OWRF Organic Waste Receiving Facility
PAFR Popular Annual Financial Report

PEHP Post-Employment Health Plan (employee benefit)

RVSD Ross Valley Sanitary District, JPA Member

SBP Strategic Business Plan

SD #2 Sanitary District #2, JPA Member

SDI State Disability Insurance SQSP San Quentin State Prison SQ Village San Quentin Village

SQVSMD San Quentin Village Sewage Maintenance District

SRSD San Rafael Sanitation District, JPA Member

SSC Sewer Service Charge

SWRCB State Water Resources Control Board

TCSD Tamalpais Community Services District (see Contract Service Revenues)

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TSS Total Suspended Solids
USA Underground Service Alert
WAS Waste Activated Sludge

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### **CENTRAL MARIN SANITATION AGENCY**

Adopted Budget for FY20 & FY21

#### **SCHEDULE OF REVENUE ALLOCATION TABLES**

Description		Budget FY19		Adopted FY20		Adopted FY21
Flow-Strength Allocation Table (for service charges and capital fee)		36M Flow 6M Strength	30	36M Flow 6M Strength		36M Flow 6M Strength
SRSD RVSD SD #2		40.86% 50.49% 8.65%		42.25% 49.30% 8.45%		42.25% 49.30% 8.45%
Totals		100.00%		100.00%		100.00%
Allocation of Service Charges to Members	\$	10,622,376	\$	10,994,000	\$	11,379,000
SRSD RVSD SD #2		4,340,303 5,363,238 918,836		4,644,965 5,420,042 928,993		4,807,628 5,609,847 961,526
Totals	\$	10,622,377	\$	10,994,000	\$	11,379,001
Allocation of Capital Fee to Members	\$	811,258	\$	1,021,000	\$	1,252,000
SRSD RVSD SD #2		331,480 409,604 70,174		431,373 503,353 86,275		528,970 617,236 105,794
Totals	\$	811,258	\$	1,021,000	\$	1,252,000
Debt Service Cost - Refunding Revenue Bonds Series 2015  Service charges-debt service principal  Service charges-debt service interest  Subtotal debt service  Service charges-debt service coverage	\$	2,330,000 1,643,206 3,973,206 993,302	\$	2,395,000 1,572,331 3,967,331 991,833	\$	2,470,000 1,487,006 3,957,006 989,252
Total debt service cost	\$	4,966,508	\$	4,959,164	\$	4,946,258
EDU Count (for debt service allocation) SRSD (Effective FY18 fixed at 19,545) RVSD (Effective FY18 fixed at 22,404) SD #2 (Effective FY18 fixed at 6,090) SQSP (Effective FY18 fixed at 4,005)		19,545 22,404 6,090 4,005		19,545 22,404 6,090 4,005		19,545 22,404 6,090 4,005
Total EDU's		52,044		52,044	_	52,044
Allocation of Debt Service Costs to Members  SRSD RVSD SD #2 SQSP	\$	1,865,160 2,137,992 581,163 382,193	\$	1,862,402 2,134,830 580,303 381,628	\$	1,857,555 2,129,274 578,793 380,635
Totals	\$	4,966,508	\$	4,959,164	\$	4,946,258
Total debt service charge per EDU	<u>Ş</u>	95.43	\$	95.29	\$	95.04
Total billed charges to JPA members		16,400,142	_	16,974,164		17,577,258

#### **CENTRAL MARIN SANITATION AGENCY**

Adopted Budget for FY20 & FY21

#### Initial Allocation of Service Charges using Flow and Strength (without SQSP)

I. Allocation of treatment costs by Flow
--

A. Flow volume	50.6%
B. Biological Oxygen Demand mass (BOD, Strength)	24.7%
C. Total Suspended Solids mass (TSS, Strength)	24.7%
Total Distribution	100.0%

#### A. Annual (April to March) Flows volume into CMSA in million gallons

	SRSD	RVSD	SD #2	Total CMSA Plant Influent Flow
April 1, 2016 to March 31, 2017	1,844.03	2,597.79	472.68	4,914.50
April 1, 2017 to March 31, 2018	1,411.51	1,888.58	382.15	3,682.24
April 1, 2018 to March 31, 2019	1,807.98	2,301.31	438.86	4,548.15
Total 36 month Flow	5,063.52	6,787.68	1,293.69	13,144.89
% of Flow	38.52%	51.64%	9.84%	100.0%

#### B. Annual (April to March) Mass of Biological Oxygen Demand (BOD) in pounds

				Total CMSA Plant Influent
	SRSD	RVSD	SD #2	BOD
April 1, 2016 to March 31, 2017	4,293,860	4,450,865	674,224	9,418,949
April 1, 2017 to March 31, 2018	3,605,713	4,281,207	585,582	8,472,502
April 1, 2018 to March 31, 2019	4,743,449	4,438,157	599,208	9,780,814
Total 36 month BOD	12,643,022	13,170,229	1,859,014	27,672,265
% of Total BOD	45.69%	47.59%	6.72%	100.0%

#### C. Annual (April to March) Mass of Total Suspended Solids (TSS) in pounds

	SRSD	RVSD	SD #2	Total CMSA Plant Influent TSS
April 1, 2016 to March 31, 2017	5,543,868	5,629,170	905,498	12,078,536
April 1, 2017 to March 31, 2018	4,660,290	5,612,940	799,015	11,072,245
April 1, 2018 to March 31, 2019	6,114,054	4,991,101	862,434	11,967,589
Total 36 month TSS	16,318,212	16,233,211	2,566,947	35,118,370
% of Total TSS	46.47%	46.22%	7.31%	100.0%

#### II. Allocation of Sewer Service Charges to JPA Members

This is determined by multiplying the allocation of treatment costs by volume and and strength (Section I) by each member's share of the flow (Section A), BOD (B) and TSS (C)

	SRSD	RVSD	SD #2	Total Allocation
FY20 & FY21 Budget	42.25%	49.30%	8.45%	100.00%

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#### **CENTRAL MARIN SANITATION AGENCY**

Adopted Budget for FY20 & FY21

#### Initial Allocation of Service Charges using Flow and Strength (with SQSP)

#### I. Allocation of treatment costs by Flow and Strength

A. Flow volume	50.6%
B. Biological Oxygen Demand mass (BOD, Strength)	24.7%
C. Total Suspended Solids mass (TSS, Strength)	24.7%
Total Distribution	100.0%

#### A. Annual (April to March) Flows volume into CMSA in million gallons

	SRSD	RVSD	SD #2	SQSP	Plant Influent Flow
April 1, 2016 to March 31, 2017	1,844.03	2,597.79	472.68	136.90	5,051.40
April 1, 2017 to March 31, 2018	1,411.51	1,888.58	382.15	166.12	3,848.36
April 1, 2018 to March 31, 2019	1,807.98	2,301.31	438.86	190.43	4,738.58
Total 36 month Flow	5,063.52	6,787.68	1,293.69	493.45	13,638.34
% of Flow	37.13%	49.77%	9.49%	3.62%	100.0%

#### B. Annual (April to March) Mass of Biological Oxygen Demand (BOD) in pounds

	SRSD	RVSD	SD #2	SQSP	Total CMSA Plant Influent BOD
April 1, 2016 to March 31, 2017	4,293,860	4,450,865	674,224	355,347	9,774,296
April 1, 2017 to March 31, 2018	3,605,713	4,281,207	585,582	404,146	8,876,648
April 1, 2018 to March 31, 2019	4,743,449	4,438,157	599,208	376,680	10,157,494
Total 36 month BOD	12,643,022	13,170,229	1,859,014	1,136,173	28,808,438
% of Total BOD	43.89%	45.72%	6.45%	3.94%	100.0%

#### C. Annual (April to March) Mass of Total Suspended Solids (TSS) in pounds

	SRSD	RVSD	SD #2	SQSP	Total CMSA Plant Influent TSS
April 1, 2016 to March 31, 2017	5,543,868	5,629,170	905,498	457,495	12,536,031
April 1, 2017 to March 31, 2018	4,660,290	5,612,940	799,015	487,062	11,559,307
April 1, 2018 to March 31, 2019	6,114,054	4,991,101	862,434	514,072	12,481,661
Total 36 month TSS	16,318,212	16,233,211	2,566,947	1,458,629	36,576,999
% of Total TSS	44.61%	44.38%	7.02%	3.99%	100.0%

#### II. Allocation of Sewer Service Charges to JPA Members

This is determined by multiplying the allocation of treatment costs by volume and and strength (Section I) by each member's share of the flow (Section A), BOD (B) and TSS (C)

	SRSD	RVSD	SD #2	SQSP	<b>Total Allocation</b>
FY20 & FY21 Budget	40.64%	47 44%	8.13%	3 79%	100.00%

Schedule of Equivalent Dwelling Units (EDU) and Cost per EDU

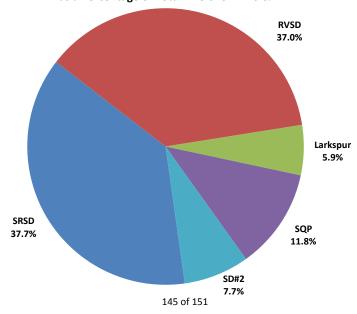
		San Rafael Sanitation District	Ross Valley Sanitary District	City of	Sanitary District #2	Total EDU	San Quentin State Prison	Total EDU	
Status	Fiscal Year	(SRSD)	(RVSD)	Larkspur	(SD #2)	JPA Members		Count	Change
Actual	2009-10	19,575	19,709	3,050	6,078	48,412	7,529	55,941	(287)
Actual	2010-11	19,401	19,261	3,021	5,975	47,658	7,209	54,867	(1,074)
Actual	2011-12	19,409	18,835	3,079	5,955	47,278	3,247	50,525	(4,342)
Actual	2012-13	19,482	19,511	2,997	6,116	48,106	4,005	52,111	1,586
Actual	2013-14	19,703	19,498	2,949	6,006	48,156	4,005	52,161	50
Actual	2014-15	19,643	19,666	2,982	6,216	48,507	4,005	52,512	351
Actual	2015-16	19,555	19,700	3,019	6,076	48,350	4,005	52,355	(157)
Actual	2016-17	19,332	19,298	3,039	6,055	47,724	4,005	51,729	(626)
Actual	2017-18	19,565	19,448	3,060	6,008	48,081	4,005	52,086	357
Actual	2018-19	19,716	19,345	3,066	6,152	48,279	4,005	52,284	198

The EDU table above shows reported EDUs for each fiscal year. The total EDU count for JPA members is used to establish the operating revenue EDU rate. The debt service EDU count was fixed effective FY18 for debt service allocation purposes. The combined operating and debt service EDU rates are used to establish the annual waste facilities use charge each July 1st.

		FY20		FY21	
Service Charges & Capital Fee	\$ :	12,015,000	\$ 12,631,001		
EDU Count		48,279		48,279	
Operating EDU Rate	\$	248.87	\$	261.63	
Debt Service	\$	4,959,164	\$	4,946,258	
Fixed EDU Count		52,044		52,044	
Debt Service EDU Rate	\$	95.29	\$	95.04	
TOTAL COMBINED EDU RATE	\$	344.15	\$	356.67	

FY20 & FY21						
Budget	SRSD	RVSD	Larkspur	SD#2	SQSP	TOTAL
Total EDU	19,716	19,345	3,066	6,152	4,005	52,284
% of Total	37.7%	37.0%	5.9%	11.8%	7.7%	100.0%

# EDU's by Member Agencies and San Quentin Prison as a Percentage of Total EDU's for FY20 & FY21



# Health & Safety Program Budget FY20 & FY21

TABLE 1 - HEALTH & SAFETY CORE PROGRAM				FY20		FY21
	Budget	Budget	Adopted	Change	Adopted	Change
Fixed Expenses	FY18	FY19	FY20	vs FY19	FY21	vs FY20
Salary - Safety Specialist/Manager (1 FTE)	111,839	118,000	119,771	1.5%	124,562	4.0%
Car Allowance - Health & Safety Manager (1 FTE)	4,800	4,800	4,800	0.0%	4,800	0.0%
Benefits - CalPERS Retirement	24,574	29,400	8,208	-72.1%	8,782	7.0%
Benefits - SS/Medicare	1,681	1,800	1,809	0.5%	1,876	3.7%
Benefits - Health	11,040	29,200	11,140	-61.9%	11,585	4.0%
Benefits - PEHP	1,680	1,700	1,745	2.7%	1,818	4.2%
Devestite Detires Health (2)	C 404	C 400	6 500	1 70/	6.760	4.00/
Benefits - Retiree Health (2) Admin Support (200 hrs @ 66.39/hr)	6,481	6,400	6,509	1.7% NA	6,769	4.0% NA
Admin Support (200 hrs @ 66.59/hr)		<u>-</u>		NA	<u>-</u>	INA
Total Salaries & Benefits	162,095	191,300	153,982	-19.5%	160,191	4.0%
Variable Expenses (account 6830-016-06)	C 000	6 000	6 000	0.00/	c 000	0.00/
Professional Services	6,000	6,000	6,000	0.0%	6,000	0.0%
Publications	1,300	1,600	1,600	0.0%	1,700	6.3%
Memberships	750 450	750 450	750 450	0.0% 0.0%	795 500	6.0% 11.1%
Office Supplies	200	200	200	0.0%	250	25.0%
Safety Shoes Training Materials	2,000	2,000	2,000	0.0%	2,000	0.0%
_	•	•	*		,	
Computer Software/Supply	3,600	4,000	4,000	0.0% NA	4,200	5.0%
Pump Station Safety Assessment			6,200	12.7%	- F 900	NA 6 Fe/
Seminars/Conferences Subtotal Variable Expenses	6,200 <b>20,500</b>	5,500 <b>20,500</b>	21,200	3.4%	5,800 <b>21,245</b>	-6.5% <b>0.2%</b>
Subtotal Vallable Expenses	20,300	20,500	21,200	3.4%	21,245	0.2/6
Total Health & Safety Program Expenses	182,595	211,800	175,182	-17.3%	181,436	3.6%
Tosting/Training Eynange						
<u>Testing/Training Expenses</u> Testing and Training-CMSA 6830-017-01	13,100	5,560	9,100	63.7%	5,200	-42.9%
Testing and Training-CNSA 6830-017-01 Testing and Training-NSD 6830-017-06	11,200	4,560	4,800	5.3%	5,200	8.3%
Subtotal Testing and Training	24,300	10,120	13,900	37.4%	10,400	-25.2%
	24,300	10,120	13,500	37.470	10,400	-23.2/0
Total Program Expenses	206,895	221,920	189,082	-14.8%	191,836	1.5%
Admin Fee (5% of NSD's share H&S Mgr Salary)	5,592	2,400	2,400	0.0%	2,500	4.2%
Salary - ASRS&SO (.25 FTE)	35,842	38,800	40,200	3.6%	41,400	3.0%
Benefits - ARS&SO (FY18: .25 FTE)	11,593	12,400	11,100	-10.5%	11,800	6.3%
Car Allowance - ARS&SO Salary (.25 FTE)	1,200	-	-	NA	-	NA
Total Salaries & Benefits - ARS&SO	48,635	51,200	51,300	0.2%	53,200	3.7%
	.0,033	5-,-50	5-,550	<b>U.</b> _,U	55,250	<u> </u>

# Health & Safety Program Budget FY20 & FY21

					1
	FY20	FY20	FY21	FY21	
	NSD	CMSA	NSD	CMSA	
	39.75%	60.25%	39.75%	60.25%	Comments
Salary - Safety Specialist/Manager (1 FTE)	47,600	72,200	49,500	75,000	3% & 4% COLA eff 07/01 and one step adjust each fiscal
					year.
Car Allowance - Health & Safety Manager (1 FTE)	1,900	2,900	1,900	2,900	\$400/month
Benefits - CalPERS Retirement	3,300	4,900	3,500	5,300	PEPRA (FY19 budgeted open position at higher Classic ER
					rate)
Benefits - SS/Medicare	700	1,100	800	1,200	ER paid medicare for salary and car allowance (1.45%)
Benefits - Health	4,400	6,700	4,600	7,000	
Benefits - PEHP	700	1,100	800	1,100	ER contributes 1.5% base salary to Post Employment
					Health Plan
Benefits - Retiree Health (2)	2,600	3,900	2,700	4,100	
Admin Support (200 hrs @ 66.39/hr)	-	-	-	-	Eliminated FY15
Total Salaries & Benefits	61,200	92,800	63,800	96,600	
Total Salaries & Delients	01,200	32,800	03,800	30,000	
Variable Expenses (account 6830-016-06)					
Professional Services	2,400	3,600	2,400	3,600	Contract services to assist in program development.
Publications	600	1,000	700	,	Mancomm, CalOSHA Reporter, ANSI/NFPA standards
Memberships	300	500	300	,	NSC, CWEA, American Society Safety Engineers
Office Supplies	200	300	200	300	
Safety Shoes	100	100	100	200	
Training Materials	800	1,200	800	1,200	Training Supplies, DVDs
Computer Software/Supply	1,600	2,400	1,700	,	Keller On-Line, MSDS Online
Pump Station Safety Assessment	, -	,	, -	-	·
Seminars/Conferences	2,500	3,700	2,300	3,500	CASA. CWEA, Fall Prot, Forklift, and WC training
Subtotal Variable Expenses	8,500	12,800	8,500	12,800	
Total Health & Safety Program Expenses	69,700	105,600	72,300	109,400	
Tasking (Tusining Frances					
Testing/Training Expenses		0.100		F 200	Hearing tests, CPR/First Aid, ICS, Traffic Control
Testing and Training-CMSA 6830-017-01	4 000	9,100	- 5 200	5,200	
Testing and Training-NSD 6830-017-06	4,800	0.100	5,200	- - 200	Hearing tests, CPR/First Aid, ICS, Traffic Control
Subtotal Testing and Training	4,800	9,100	5,200	5,200	
Total Program Expenses	74,500	114,700	77,500	114,600	
Admin Fee (5% of NSD's share H&S Mgr Salary)	2,400	_	2,500	_	Applies to NSD Health & Safety revenue budget
	2,700	-	2,300		F. F. S.
Salary - ASRS&SO (.25 FTE)	20,100	20,100	20,700	20,700	.25 FTE cost shared equally (NSD not budgeted)
Benefits - ARS&SO (FY18: .25 FTE)	5,550	5,550	5,900	•	.25 FTE cost shared equally (NSD not budgeted)
Car Allowance - ARS&SO Salary (.25 FTE)	3,330	3,330	3,500	3,300	NSD's ARS&SO does not receive car allowance
Total Salaries & Benefits - ARS&SO	25,650	25.650	26,600	26.600	Admin, Risk Services & Safety Officer (ARS&SO)
iotai Jaianes & Dellellts - Angago	25,030	25,030	20,000	20,000	The state of the s

Program Expenditures
5% Admin Fee
TOTAL 4070-000-00 Budget

NSD reimburses CMSA for Outside Training Services Total budget for NSD

FY20 Budget	Summary	FY21 Budget	Summary	-
NSD	CMSA	NSD CMSA		
69,700	N/A	72,300	N/A	H&S Revenue Budget (Excludes ARS&SO)
2,400	N/A	2,500	N/A	H&S Revenue Budget 5% Admin Fee
72,100		74,800		
-	38,450	-	39,400	TOTAL 6830-016-01 H&S Prog & 12.5% ASRS&SO
4,800	9,100	5,200	5,200	TOTAL 6830-017-06 (NSD) & 01 (CMSA)
76,900	47,550	80,000 44,600		Total CMSA shared expenses and 12.5% ASRS&SO

#### FY20 Distribution of Health & Safety Program Expenses to Participating Districts

Method of Distribution: Each District has an equal share 50% of the total expense.

The remaining 50% of the program cost is distributed by the number of authorized positions for each District.

**Total Cost Core Program 175,182** Excludes .25 FTE ARS&SO (costs shared equally) & 5% Admin Fee **50% of Total Expense**\$ 87,591

Agency	Distribution on 50% of Program Cost	Number of Authorized Positions*	Percentage of Total Number of Employees	Distribution on remaining 50% of Program Cost	Total Annual Payment	Total Allocation Percentage
CMSA*	43,795	43	70.5%	61,744	105,540	60.25%
NSD*	43,795	18	29.5%	25,846	69,642	39.75%
Total	87,591	61	100.0%	87,591	175,182	100.00%

<sup>\*</sup>Authorized positions excludes CMSA Safety Specialist/Manager and NSD Administrative, Risk Services & Safety Officer (ARS&RSO) positions

#### FY21 Distribution of Health & Safety Program Expenses to Participating Districts

Method of Distribution: Each District has an equal share 50% of the total expense. The remaining 50% of the program cost is distributed by the number of authorized positions for each District.

**Total Cost Core Program 181,436** Excludes .25 FTE ARS&SO (costs shared equally) & 5% Admin Fee **50% of Total Expense**\$ 90,718

Agency	Distribution on 50% of Program Cost	Number of Authorized Positions*	Percentage of Total Number of Employees	Distribution on remaining 50% of Program Cost	Total Annual Payment	Total Percentage
CMSA*	45,359	43	70.5%	63,949	109,308	60.25%
NSD*	45,359	18	29.5%	26,769	72,128	39.75%
Total	90,718	61	100.0%	90,718	181,436	100.00%

<sup>\*</sup>Authorized positions excludes CMSA Safety Specialist/Manager and NSD Administrative, Risk Services & Safety Officer (ARS&RSO) positions

#### Public Education Committee Biennial Budget FY20 & FY21

Program Costs	Buc	lget FY18	Buc	lget FY19	A	dopted FY20	Adopted FY21		
Event Enrollment (Booth costs and event support)	\$	15,000	\$	7,000	\$	4,000	\$	4,000	
Juggler Show (20 shows per year annual cost)		10,000		10,000		12,000		10,000	
RxSafe Marin		-		14,000		-		14,000	
Fast Forward/Kidspeak Publication (110,000 copies)		4,000		4,000		4,000		4,000	
Logo Development (new logo every other year)		3,000		3,000				2,000	
Awards ( 6 plaques - purchase plaques local and state)		1,000		-		600		-	
Meeting Expenses (copies, demo promo/brochure items)		500		500		500		500	
SAV-R-BAY website redesign						5,000		300	
Educational Video reproduction/updating		10,000		18,000					
Booth Set Up Supplies (numerous events throughout year)		2,000		1,000		1,000		1,000	
Booth Technology equipment								2,000	
Brochures (printing/updates/ development)		1,200		3,000		3,000		3,000	
MCSTOPPP Calendar Support									
Promotional Items		24,000		24,000		12,000		24,000	
STRAW - Students and Teachers Restoring A Watershed						1,000		1,000	
High School Cu, Hg watershed Audit						1,000		1,000	
Marin Science & Environmental Leadership Program at Terra Linda HS				2,500		2,500		2,500	
Contingency		5,000		-		5,000			
Totals	\$	75,700	\$	87,000	\$	51,600	\$	69,300	

	Program Cost Allocation to Participating Members										Member Revenue to CMSA								
	Annual Total Program Costs											(Cost Plus 15% Program Management Fee)							
	Percent		Budget		Budget Adop		Adopted	Adopted				Adopted		Adopted					
Agency	Share	FY18		FY19			FY20		FY21		lget FY18		FY20		FY21				
CMSA	40.6%	\$ 30,734		\$	35,322	\$	20,950	\$	28,136										
LGVSD	13.2%	\$	9,992		11,484		6,811	\$	9,148	\$	11,491	\$	7,833	\$	10,520				
NSD	24.8%	\$	18,774		21,576		12,797	\$	17,186		21,590		14,716	\$	19,764				
SASM	11.6%	\$	8,781		10,092	5,986		\$	8,039		10,098		6,883	\$	9,245				
SMCSD	6.8%	\$ 5,148			5,916 3,50		3,509	\$ 4,712			5,920		4,035	\$	5,419				
SD5	3.0%	\$ 2,271			2,610	1,548		\$	2,079		2,612		1,780	\$	2,391				
Totals	100.0%	\$	\$ 75,700		87,000	\$	51,600	\$	69,300	\$	51,711	\$	35,248	\$	47,339				

#### NOTES:

<u>Event Enrollment</u> - committee decreased amount needed due to several events being discontinued (Salmon Festival, BAEER Faire) in 2018.

<u>Educational Video reproduction/updating</u> - committee plans to fund the video production from FY19 funds only <u>Booth Set Up Supplies (numerous events throughout year</u>) - committee lowered this amount needed after reviewing the amount historically spent on this line item.

<u>Brochures (printing/updates/development)</u> - committee would like to reprint current brochures in Spanish, to reach more of the target audience and develop a flyer directed toward senior citizens.

<u>MCSTOPPP Calendar Support</u> - MCSTOPP is no longer publishing an annual county wide calendar. If this organization starts up again, the committee will discuss funding.

<u>STRAW</u> - this program was only funded in FY17.

<u>RxSafe Marin</u> - For FY20 we will be halting our monetary support in order for them to catch up to our donation. They plan to spend FY19 money in FY20.

<u>SAV-R-BAY website redesign</u> - The website is hosted locally through CMSA, but needs to be professionally overhauled and redesigned.

<u>MSEL - Student Outreach Research Projects</u> - LGVSD currently works with MSEL students and suggested this would be a great addition to the Public Education Program. This year the student project researched the effects of microbeads from beauty products, on the environment and the difficulty removing them from wastewater. The students made alternative beauty products using natural ingredients and have printed up the recipes for people to make at home. They will be presenting their project at the Downtown San Rafael Farmer's Market, Thursday, April 26th and San Rafael, Civic Center Farmer's Market, Sunday, April 29th in hopes to bring attention to this problem. The requested \$2,500 would be seed money to assist the MSEL program at Terra Linda High School.

# CENTRAL MARIN SANITATION AGENCY OPEB FUNDING PLAN SCHEDULE

Annual Status													Retiree edical
								E.	st Retiree				Cost
as Estimated	Fiscal	Balance	N	et ADC			Interest				Balance		wth @
					Cubtotal			Medical					
or Actual	Year	 @ BOY	Con	tribution	 Subtotal	@ 6.75%		Cost		@ EOY			.0%
Estimated	2019-20	\$ 2,600,000	\$	43,000	\$ 2,643,000	\$	178,403	\$	-	\$	2,821,403	2	10,997
Estimated	2020-21	2,821,403		43,000	2,864,403		193,347		-		3,057,750	2	19,437
Estimated	2021-22	3,057,750		43,000	3,100,750		209,301		-		3,310,050	2	28,214
Estimated	2022-23	3,310,050		43,000	3,353,050		226,331		-		3,579,381	2	37,343
Estimated	2023-24	3,579,381		43,000	3,622,381		244,511		-		3,866,892	2	46,837
Estimated	2024-25	3,866,892			3,866,892		261,015		256,710		3,871,197	2	56,710
Estimated	2025-26	3,871,197			3,871,197		261,306		266,979		3,865,524	2	66,979
Estimated	2026-27	3,865,524			3,865,524		260,923		277,658		3,848,789	2	77,658
Estimated	2027-28	3,848,789			3,848,789		259,793		288,764		3,819,819	2	88,764
Estimated	2028-29	3,819,819			3,819,819		257,838		300,315		3,777,342	3	00,315
Estimated	2029-30	3,777,342			3,777,342		254,971		312,327		3,719,986	3	12,327
Estimated	2030-31	3,719,986			3,719,986		251,099		324,820		3,646,264	3	24,820
Estimated	2031-32	3,646,264			3,646,264		246,123		337,813		3,554,574	3	37,813
Estimated	2032-33	3,554,574			3,554,574		239,934		351,326		3,443,182	3	51,326
Estimated	2033-34	3,443,182			3,443,182		232,415		365,379		3,310,219	3	65,379
Estimated	2034-35	3,310,219			3,310,219		223,440		379,994		3,153,665	3	79,994
Estimated	2035-36	3,153,665			3,153,665		212,872		395,193		2,971,344	3	95,193
Estimated	2036-37	2,971,344			2,971,344		200,566		411,001		2,760,908	4	11,001
Estimated	2037-38	2,760,908			2,760,908		186,361		427,441		2,519,828	4	27,441
Estimated	2038-39	2,519,828			2,519,828		170,088		444,539		2,245,378	4	44,539

Note 1: The obligation for tier 1 OPEB benefits will fully roll off in approximately 20 years leaving an ongoing obligation for tier 2 benefits only. Future amounts for this schedule are estimated while actual amounts are entered as of the close of each year.

Note 5: CMSA has approximately \$2.6M OPEB funding as of 2/28/19 in the PERS CERBT account. The total OPEB obligation is approximately \$5.2M as of the Jan 1, 2018 actuarial report. Assuming a \$43K annual funding payment for 5 years and a 6.75% rate of return, CMSA will fund the plan to approximately \$3.9M in five years and then begin making payments from the plan through year 20 that will leave a balance estimated at \$2.2M to bring the balance down to its tier 2 long run obligation.

Note 2: Existing retirees rates drop approximately 60% at age 65

Note 3: New retirees pay full single-person premium for 10 yrs from age 55 to age 65

Note 4: Per actuary, benefits will tail off in 20 years



# **Financial Policies Manual**

Board Adopted in full on November 13, 2018.

Individual Policy Revision Adoptions #531 – Investments: March 14, 2019 #550 – Annual Budget: April 9, 2019



# **Central Marin Sanitation Agency**

# FINANCIAL POLICIES MANUAL

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POLICY #: 501

SECTION: FINANCIAL – FINANCIAL POLICIES

SUBJECT: Policy Framework DATE: 11/13/2018

#### **PURPOSE**

Financial policies are key components to sound fiscal management and direct proactive steps toward effectively managing and conducting financial operations. This policy's Framework provides guidance and direction for developing financial policies. The development of these policies aligns with the Agency's Value statement "CMSA values sound financial practices to safeguard the Agency's assets."

The CMSA Financial Policy Manual guides the Board of Commissioners, General Manager, and Agency staff (i.e., all stakeholders) in shaping financial decisions and actions. These policies give directions for making informed choices regarding important aspects of quality public services, and on effectively handling and safeguarding financial and physical assets. They define, promote, control, and ensure participation by each stakeholder on his/her roles, responsibilities, and relationships with respect to financial matters and administration. It is accepted as standard business practice to have financial policies in place. They are also used as good training tools for new employees and for refreshing ongoing financial skills and operations.

#### **POLICIES VS. PROCEDURES**

Financial policies provide concise and comprehensive direction from the Board with respect to the proper actions to take in managing and conducting the Agency's financial affairs. Each policy is organized to provide succinct, explicit, and current direction to designated stakeholders. These policies are linked to and complement financial procedures. Procedures are separately detailed with specific directions and steps for implementing the policies. Generally, policies tend to be less specific than procedures. Policies should pass the test of time, while procedures, keeping with the intent of the policies, may change more frequently to adapt to changes in operational needs and technology. Financial procedures are maintained by the Finance/Administration Department.

#### **POLICY FRAMEWORK**

Agency staff shall develop, and the Board shall approve, financial policies that promote accountability, stability, and continuity. The policy development process also encourages active participation by specific stakeholders who have a vested interest in the Agency's financial planning, management, and operations.

Financial policies shall be actionable and shall set controls to be used for prudent financial decision-making, and shall standardize financial operations by defining roles and

responsibilities. They shall define and outline appropriate financial management and behavior. All Agency employees may be subject to disciplinary actions under Personnel Policy, *Progressive Discipline* for violation of any financial policies. In their intent, they shall promote and incorporate long-term perspectives and strategic thinking by framing overall operational policies, goals, and objectives. They shall establish links to these broad organizational goals and objectives, while focusing on fiscal results and outcomes for the Agency.

Agency staff shall periodically bring the financial policies to the Board for review and consideration of making recommended changes.

POLICY #: 502

SECTION: FINANCIAL – INTERNAL CONTROLS
SUBJECT: Internal Controls and Fraud Prevention

DATE: 11/13/2018

#### **POLICY**

The Agency shall maintain a system of internal controls to safeguard assets, to manage assets efficiently and effectively, and to ensure reliable data.

#### **PROCEDURES**

This policy provides direction on managing the Agency's internal accounting methods and practices and to prevent fraudulent activities and misuse of Agency funds in accordance with California Government Code Section 6500, et seq.

#### I. Internal Controls

Agency staff shall establish and maintain procedures, documents and systems of internal control to safeguard financial assets, to manage financial assets in an accountable, secure, efficient, and effective manner, and to ensure accurate financial data. The Administrative Services Manager shall be responsible for this function.

# II. Internal Accounting Practices

Agency staff shall perform internal accounting practices in accordance with *Generally Accepted Accounting Principles (GAAP)* for government agencies, including applicable *Financial Accounting Standards Board (FASB)* pronouncements, and all relevant *Governmental Accounting Standards Board (GASB)* pronouncements.

Agency staff shall ensure that:

- A. Each employee understands his/her role, responsibility, and accountability when conducting financial transactions for the Agency;
- B. All transactions are properly authorized;
- C. Accounting records and documentation are properly maintained;
- D. Access to both assets and records are effectively controlled; and
- E. General ledger accounts are periodically reviewed for their reasonableness, and for the validity and accuracy of the underlying items they represent.

If any of these practices are found to be improperly implemented or maintained, Agency staff shall take immediate remedial action to improve and/or change the practice.

#### III. Internal Review and Recommendations

The Administrative Services Manager shall perform a periodic review of all financial policies, procedures, and practices, and make recommendations for changes and updates to the General Manager. As appropriate, the General Manager shall make policy change recommendations to the Board of Commissioners for its review and approval, and/or direct Agency staff to make appropriate procedural changes.

#### IV. Public Fiduciary Liability

The General Manager shall recommend, for Board review and approval, methods for reducing and mitigating risks associated with potential public fiduciary liabilities such as claims made against the Agency for any alleged wrongful fiduciary act and/or breach of fiduciary duties for which the Agency might be responsible. The General Manager shall consult with the California Sanitation Risk Management Authority and other respected resources to make recommendations regarding the procurement of public official bonds, fiduciary liability insurance, and establishing other mechanisms for reducing and mitigating such risks.

#### V. Audits

Internal control and financial audits shall be performed annually by an independent firm of certified public accountants and coordinated by the Administrative Services Manager in accordance with *Generally Accepted Auditing Standards*, the Agency's Joint Powers Agreement, and applicable State laws. The Administrative Services Manager shall incorporate the financial audit results into the financial section of the Comprehensive Annual Finance Report (CAFR). Agency staff shall implement auditor recommendations for improved internal controls. The Board shall annually review and approve the audits and accept the CAFR. In addition, based on the recommendation of the General Manager from an evaluative process, the Board shall periodically review and approve the selection of the independent auditor to perform the annual financial audit.

#### VI. Segregation of Duties

In implementing this policy and related procedures, Agency staff shall segregate financial transaction roles, responsibilities, and duties to the extent possible to safeguard assets against the risk of loss, mishandling, misuse, and fraud.

# VII. Operating Fund Account

The Board shall approve the selection of a federally insured banking institution that would be entrusted to securely handle and transact, at Agency staff direction, any funds deposited in the Agency's Operating Fund Account. The General Manager shall periodically recommend to the Board the selection through an evaluative process of a new banking institution due to changes in current banking institution performance, banking market conditions, or for other benefits or advantages to the Agency. The evaluation shall include, but is not limited to, qualifications associated with banking

services provided, fees charged, and financial and administrative benefits for the Agency. The Administrative Services Manager shall develop procedures to manage the daily and routine operations of the account and its cash balances

### VIII. Authorized Check Signers

Agency staff shall require that all checks disbursed from the Agency's operating account have two signatures and be for valid, documented, and approved expenses of the Agency. At no time or occasion shall blank checks be signed. The Board shall designate authorized check signers who may include the General Manager, Board members and alternates, and Agency staff. The General Manager shall seek Board authorization to update authorized check signers whenever a previously designated check signer is no longer affiliated with the Agency.

#### IX. Wire Transfers

The Agency utilizes an operating account and several investment accounts to properly manage its funds. The General Manager, Administrative Services Manager, and Agency staff appointed by the General Manager shall be authorized to transfer funds between these accounts. Agency staff shall accept wire transfer payments to its operating account for services rendered after review and approval by the Administrative Services Manager.

# X. Vault Security

Agency staff shall store vital Agency financial and administrative records, all cash, blank check stock, processed and voided checks, and spare door keys and access cards in the vault, which is a fire-resistant locked closet located in the front office area of the Administration building. The General Manager shall designate which Administration and Finance staff shall be given possession of the key to the vault.

# XI. Payments to Agency and Bank Deposits

Agency staff shall deposit in the bank all payments to the Agency on a weekly basis based on appropriate financial procedures. Deposit of cash receipts shall be performed by designated staff and verified by the Personnel and Accounting Technician. Prior to the time in which the receipts are processed for bank deposit, Agency staff shall store checks and cash in the Agency vault.

# XII. Petty Cash

Agency staff shall securely maintain petty cash funds for small cash transaction purposes. Disbursements from petty cash shall be pursuant to the *Purchasing policy*, and associated procedures. At no time or occasion shall checks be cashed out of petty cash currency, or petty cash funds borrowed for any purpose. Agency staff shall keep petty cash in a locked box in the Agency vault.

# XIII. RV Disposal Receipts

Agency staff shall securely maintain funds to conduct payment transactions for Recreational Vehicle (RV) customers utilizing the Agency facilities to offload wastewater. RV cash receipts will be reconciled to the sales/money receipts book monthly or at the same time as petty cash replenishment. At no time or occasion shall checks be cashed out or funds borrowed from held currency. Agency staff shall keep these RV funds in the Agency vault.

POLICY #: 503

SECTION: FINANCIAL – INTERNAL CONTROLS

SUBJECT: Ethics

DATE: 11/13/2018

#### **POLICY**

The Agency shall follow ethical standards in its financial matters to avoid abusive practices that could occur in both fact and appearance.

#### **PROCEDURES**

The Board of Commissioners, General Manager, and Agency staff shall serve as stewards of the public's resources, trust, and confidence, and thus shall be held to the high standards of ethical fiscal conduct in the public's interest as opposed to personal interests.

#### I. General

The Board shall establish and maintain financial policies for standards of ethical responsibility. Commissioners and Agency staff should understand that improper financial and contractual activities could damage the reputation of, and confidence in, the Agency and its employees, and could result in serious adverse financial and legal consequences for the Agency.

Each Board member and Agency staff shall conduct their official business dealings in practice and appearance according to ethical fiscal standards, regulatory requirements, and the public trust. Agency staff shall develop and implement methods and controls for preventing, avoiding, and reducing potential ethical fiscal improprieties, conflicts, and fraudulent behavior, and to ensure procedures and structures are in place to properly implement this policy. The General Manager, as necessary, will periodically schedule appropriate ethics training for Commissioners and designated Agency staff as required by the California Government Code.

# II. Violation of this Policy and Related Financial Policies

The General Manager or designee shall investigate any allegation and/or observation of improprieties that would violate this policy and other financial policies. If a violation is determined to have occurred, the General Manager shall handle the matter under the Agency's Personnel Policies, which may result in disciplinary action.

# III. Reporting Unethical and Fraudulent Behavior

Agency staff shall report any observation in practice or appearance of a violation of the Agency's financial policies and procedures, including this policy, to their supervisor or the General Manager, who will investigate the matter. A verbal or written report will be considered a personnel matter and will be handled with strict confidentiality under the

Agency's Personnel Policies. If the suspect employee is the General Manager, Agency staff have a responsibility to contact the Chairperson of the Board of Commissioners.

#### IV. Whistleblower Provision

Agency staff who report unethical or fraudulent behavior are protected by the provisions in the California Government Code Sections 8547-8547.12, Article 3, known as the "California Whistleblower Protection Act."

#### V. Use of Public Funds

Agency staff shall make expenditures of Agency funds only after the transaction has been properly reviewed, approved, and authorized as established by *Internal Controls*, *Expenditure Management*, *Financial Planning*, *Procurement Management*, and *Asset Management* policies, and related procedures. Agency staff shall only receive funds for authorized and approved Agency activities as established by *Internal Controls*, *Revenue Management*, and *Financial Planning* policies, and related procedures. Agency staff shall not spend or receive public funds for any "public purposes" they choose; all funds of the Agency shall be utilized solely for Board adopted purposes (California Government Code section 8314).

Agency staff shall be prohibited from the practice and appearance of potentially fraudulent activities that could involve, and are not limited to, the following activities: borrowing Agency funds, accounting or recordkeeping that results in borrowing schemes, contract or bid rigging, pilfering or petty theft, unapproved reimbursement of funds, unauthorized disposal or taking possession of surplus or unused Agency property and supplies, double accounting or making double payments, false claims, payroll and benefit fraud, and false programming or hacking of electronic and automated financial systems and transactions.

Each Board member shall comply with Agency Board of Commissioners' *Reimbursement Policy for Travel/Expenses for Agency Officials*.

#### VI. Conflict of Interest

Government Code section 87300 requires every state and local government agency to adopt a Conflict of Interest Code to prohibit and prevent financial conflicts of interest. In addition to this *Ethics* policy, the Board has also adopted a Resolution and a Personnel Policy that address conflicts of interest.

Commissioners and Agency staff shall not make, participate in making, or in any way attempt to use their official positions to influence an Agency decision in which they know or have reason to know that they have a financial interest (California Government Code section 87100, et seq.). In addition, Commissioners and Agency staff shall not be financially interested in contracts they approve on behalf of the Agency. Commissioners and Agency staff shall avoid contractual improprieties that could occur both in practice and appearance (California Government Code section 1090, et seq.).

Commissioners and Agency staff shall not engage in any employment or enterprise for compensation that is inconsistent, incompatible, or in conflict with their official duties and responsibilities associated with the Agency (California Government Code section 1126). Each Commissioner and designated Agency staff, as stated in the Agency's Conflict of Interest Code, shall file *Form 700: Statement of Economic Interests* with the Marin County Office of Elections. The General Manager shall make the statements available for public inspection and reproduction (California Government Code section 81008).

# VII. Bribery and Extortion

Federal and California law both prohibit bribery and extortion of or involving public officials and employees. Commissioners and Agency staff shall not ask, receive, or agree to receive a bribe, and shall not demand or extort money in return for the performance of their official duties. A bribe involves asking for, giving, receiving, and accepting anything of value for gaining present or prospective advantage, performance, and/or influence in any affairs of the Agency (California Penal Code sections 7(6) and 68).

# VIII. Extra Compensation

Commissioners and Agency staff shall explicitly uphold the California Constitution, Article XI, section 10 that prohibits "extra compensation":

"...A local government body may not grant extra compensation or extra allowance to a public officer, public employee, or contractor after service has been rendered or a contract has been entered into and performed in whole or in part, or pay a claim under an agreement made without authority of law."

#### IX. Gifts to Employees and Officials

Commissioners and Agency staff shall explicitly follow the California Political Reform Act (Government Code sections 86203, 89503, and 89506) and relevant U.S. Internal Revenue Service codes and pronouncements that set forth the rules and provisions that must be followed by public employees and officials related to the receipt of gifts and applicable taxes. These state laws limit the value of gifts that may be accepted by the Board and Agency employees. These government codes cover a broad subject area regarding gifts including, but not limited to, the maximum amount of gifts that public employees and officials may receive (amounts are set by the California Fair Political Practices Commission), lobbyist limitations, special rules for gifts of travel, exceptions to the gift limitations, and other regulations regarding gifts. See website www.fppc.ca.gov for more information.

#### X. Honoraria Ban

Commissioners and Agency staff shall explicitly follow California Government Code 89502, which prohibits public officials from accepting honoraria. Honoraria is defined as any payment made in consideration for any speech given, article published, or attendance at any public or private conference, convention, meeting, social event, meal, or like gathering.

#### XI. Gifts of Public Funds

Commissioners and Agency staff shall explicitly uphold California Constitution, Article XVI, section 6 that prohibits public agencies from making gifts of public funds:

"... shall have no power... to make any gift or authorize the making of any gift of any public money or thing of value to any individual, municipal or other corporation whatever the purpose..."

# XII. Receiving Private Donated Funds

The Board shall receive donated funds and/or property of value from private individuals, corporations, and organizations on behalf of the Agency when such funds or property are directly related to the mission, public purpose, and operations of the Agency. The Board shall not receive such donations in exchange for compensation, services, and/or any item of value that would benefit the donator in fact, practice, or appearance, other than those derived from tax-exempt donations prescribed in federal and state tax laws. The General Manager shall review, approve, and accept items of de minimus value on behalf of the Agency. The Board shall review and consider accepting all other donations.

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POLICY #: 510

SECTION: FINANCIAL – FINANCIAL REPORTING

SUBJECT: General DATE: 11/13/2018

#### **POLICY**

The Agency shall issue a Comprehensive Annual Financial Report prepared in accordance with Generally Accepted Accounting Principles, and it shall be reviewed by the Agency's independent financial auditor for consistency.

#### **PROCEDURES**

# I. Comprehensive and Popular Annual Financial Reports

The Comprehensive Annual Financial Report (CAFR) shall be prepared in accordance with *Generally Accepted Accounting Principles (GAAP)* for government agencies and relevant Government Accounting Standards Board (GASB) statements. It shall be produced in three sections: introductory, financial, and statistical. The financial section shall include the Agency's audited financial report that was prepared by an independent firm of certified public accountants in accordance with *Generally Accepted Auditing Standards*.

The Agency will also prepare a Popular Annual Financial Report (PAFR) as a companion to the CAFR. The CAFR and PAFR will be submitted to the Government Finance Officers Association (GFOA) for evaluation and consideration of the Certificate of Achievement for Excellence in Financial Reporting and the Award for Outstanding Achievement in Popular Annual Financial Reporting, respectively.

The Board of Commissioners shall review and accept the CAFR by no earlier than the date of the auditor's opinion letter to the Agency, and no later than December 31<sup>st</sup> of the fiscal year end for which the report is prepared.

# II. External Filings and Reporting

Agency staff shall comply with the required external filings and reports as listed in the table below.

keport Category/ Report	rrequency
Financial Reporting:	
CAFR with audited financial statements	Annual
PAFR	Annual
State Controller's Special Districts Financial Transactions Report	Annual
Payroll Reporting:	
Federal and State Tax Withholding Deposits	Bi-weekly
Forms 941 (Federal) / DE 6 (State)	Quarterly

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Report Category/Report Frequency

Financial Reporting:	
Forms W2 (Federal) / W3 (Federal) / DE 7 (State)	Annual
State Controller's Government Compensation of California Report	Annual
Debt Reporting:	
(see Continuing Disclosure Procedures for Agency-Issued Debt)	
Audited Financial Statements from CMSA and each JPA	Annual
member agency (MSRB)	
Disclosures to bondholders and other interested parties	Event Driven
(MSRB)	
Other Reporting:	
Diesel fuel taxes (State)	Annual
Forms 1099 (Federal) / 1096 (Federal)	Annual

POLICY#: 511

SECTION: FINANCIAL – FINANCIAL REPORTING

SUBJECT: Continuing Disclosure Procedures for Agency Issued Debt

DATE: 11/13/2018

#### **POLICY**

The Agency shall comply with all debt-related continuing disclosure requirements by supplying certain financial information to credit rating agencies and other interested parties.

#### **PROCEDURES**

Each debt issued by the Central Marin Sanitation Agency (Agency) will have its own specific set of Continuing Disclosure Undertakings. This policy ensures that the Agency satisfies all debt-related disclosure requirements and identifies the responsible Agency staff.

The continuing disclosure procedures ("Continuing Disclosure Procedures" or "Procedures") of the Agency, presented below, are intended to (a) ensure that the Agency's Continuing Disclosure Documents (as defined below) are accurate and comply with all applicable federal and state securities laws, and (b) promote best practices regarding the preparation of the Agency's Continuing Disclosure Documents.

#### I. Definitions

"Continuing Disclosure Documents" means any documents filed with the Municipal Securities Rulemaking Board ("MSRB") pursuant to Continuing Disclosure Undertakings or otherwise, including: (a) annual continuing disclosure reports filed with the MSRB and (b) event notices and any other filings with the MSRB.

"Continuing Disclosure Undertakings" means any continuing disclosure agreements or certificates entered into by the Agency in order to assist an underwriter for the Agency's bonds or other evidences of indebtedness in complying with Rule 15c2-12 of the Securities Exchange Act of 1934, as amended.

"Official Statements" means preliminary and final official statements, private placement memoranda and remarketing memoranda relating to the Agency's securities, together with any supplements, for which a continuing disclosure obligation is required.

# II. <u>Disclosure Coordinator</u>

A. Appointment. The Administrative Services Manager shall serve as the Disclosure Coordinator for the Agency. The Administrative Services Manager, with the approval of the General Manager, may designate another member of the Agency staff to serve as the Disclosure Coordinator.

- B. *Responsibilities*. The Disclosure Coordinator is responsible for:
  - 1) Preparing and filing the Continuing Disclosure Documents, to the extent such filings are not prepared and filed by the Disclosure Consultant. The Disclosure Consultant may be the Agency's Bond Counsel, Financial Advisor, or Trustee.
  - 2) In anticipation of preparing Continuing Disclosure Documents, soliciting audited financial statements from CMSA's JPA member agencies and other "material" information (as defined in Securities and Exchange Rule 10b-5) from Agency departments.
  - 3) Following up with others, including management of outside consultants assisting the Agency (if any), in the preparation and dissemination of Continuing Disclosure Documents to make sure that assigned tasks have been completed on a timely basis and making sure that the filings are made on a timely basis and are accurate.
  - 4) Ensuring the timely filing of the Agency's Continuing Disclosure Undertakings with the MSRB by the Disclosure Coordinator, Consultant or other party.
  - 5) Serving as a "point person" for personnel to communicate issues or information that should be or may need to be included in any Continuing Disclosure Document.
  - Monitoring compliance by the Agency with these Continuing Disclosure Procedures, including timely dissemination of the annual report and event filings as described in the Agency's Continuing Disclosure Undertakings.
  - 7) Recommending changes to these Continuing Disclosure Procedures to the General Manager as necessary or appropriate.
  - 8) Maintaining records documenting the Agency's compliance with these Continuing Disclosure Procedures.
  - 9) Reviewing compliance with and providing appropriate certifications in connection with the various covenants in bond documents, such as maintenance of revenues and coverage tests. The Disclosure Coordinator shall review the bond documents to determine which covenants require an annual or regular certification and maintain a list.

#### III. Continuing Disclosure Filings

#### A. Overview of Continuing Disclosure Filings

Under the Continuing Disclosure Undertakings, the Agency is required to file annual reports for the Agency and each JPA member agency with the MSRB's Electronic Municipal Market Access ("EMMA") system in accordance with such

agreements in each year. Such annual reports are required to include certain updated financial and operating information (or may refer to a publicly-available document), which varies among the different obligations issued by the Agency, and the Agency's audited financial statements.

The Agency is also required under the continuing disclosure undertakings to file notices of certain events with EMMA.

#### B. Annual Reports

The Disclosure Coordinator shall ensure that the preparation of the Agency's annual reports shall commence as required under each specific continuing disclosure obligation. Before the Agency's annual report is submitted to EMMA, the Disclosure Coordinator shall verify its content and accuracy. Prior to each filing, the Disclosure Coordinator will discuss any questions or concerns regarding the annual report with the General Manager and outside consultants as described in IV. D. below.

# C. Event Filings

If any of the Disclosure Coordinator, General Manager or Administrative Services Manager becomes aware of any of the material events listed in any of the Continuing Disclosure Undertakings, such person shall notify the others and discuss the event to determine whether a filing is required or is otherwise desirable. The Disclosure Coordinator may contact outside consultants with any questions as described in III. D. *Uncertainty*, below.

# D. <u>Uncertainty</u>

The Disclosure Coordinator may, after consultation with the General Manager and Administrative Services Manager, direct questions regarding this policy or disclosure to the disclosure counsel, bond counsel or Agency counsel or such other counsel or consultant he/she deems appropriate.

# IV. <u>Documents To Be Retai</u>ned

The Disclosure Coordinator shall be responsible for retaining records demonstrating compliance with these Continuing Disclosure Procedures. The Disclosure Coordinator shall retain an electronic or paper file ("Disclosure File") for each continuing disclosure annual report that the Agency completes. Each Disclosure File shall include final versions of Continuing Disclosure Documents; written confirmations, certifications, letters and legal opinions described herein; and copies of these Continuing Disclosure Procedures and a list of individuals to whom they have been distributed and the dates of such distributions. The Disclosure File shall be maintained by the Agency for a period of five years from the later of the date of delivery of the securities referenced in the Continuing Disclosure Document, or the date the Continuing Disclosure Document is published, posted, or otherwise made publicly available, as applicable.

# V. Education

The General Manager and the Administrative Services Manager shall ensure that the Disclosure Coordinator is properly trained to understand and perform his/her responsibilities. Such training may include training sessions conducted by consultants with expertise in municipal securities disclosure, attendance at conferences, or other appropriate methods identified by the General Manager or the Administrative Services Manager.

# VI. <u>Amendments</u>

Any provision of these Continuing Disclosure Procedures may be waived or amended at any time by written confirmation of the General Manager upon consultation with the Administrative Services Manager.

POLICY #: 520

SECTION: FINANCIAL – REVENUE MANAGEMENT

SUBJECT: General DATE: 11/13/2018

#### **POLICY**

The Board shall establish a multi-year revenue program to fund its operating, debt service, and capital improvement program needs.

# **PURPOSE**

To provide staff direction on the management of the Agency's revenues with respect to its organizational budget, strategic plan, and Board direction.

#### **BACKGROUND**

JPA member agencies and San Quentin State Prison (satellite collection agencies) collect and transport wastewater to CMSA for treatment and disposal. Section 14 of the JPA binds the JPA members to pay the CMSA Regional Charges and specifies the manner in which CMSA determines the allocation of the Regional Charge.

The manner in which each Member Agency determines the CMSA Regional Charge for the property owners and businesses within its respective district is solely the purview of the Member.

The Agency's ability to receive revenues for non-regional charges is derived from the Agency's Sewer Use and Fee Ordinances and by contractual arrangements.

#### **REVENUE SOURCES**

CMSA's service charge is established by the Board of Commissioners based on the Agency's total funding requirements. These requirements take into account the Agency's necessary operational and capital expenses, other revenue sources, the use and level of reserve cash, debt service requirements, and long-term financial forecasts, among other considerations, when determining and approving the service charges.

# I. Service Charges (Regional Charge)

The majority of Agency revenues are from Regional Service Charges collected from its JPA member agencies and contract revenues for CMSA wastewater services provided to San Quentin State Prison. In accordance with the JPA, the Board can base these charges on the number of equivalent dwelling units (EDUs), measured flow volume, or measured flow volume and wastewater quality (strength).

EDUs are calculated by each member agency for each property in its service area. An EDU is an estimation of an average wastewater flow discharged from one single-family household.

Businesses may contain multiple EDUs depending upon the volume of wastewater discharged, while industrial dischargers' EDUs are based on flow and strength. Each Member Agency provides the total EDU count for its service area to CMSA.

Collection agency flows are continuously measured by flow meters and recorded by the CMSA process control system, and can be totalized for any period of time. Flow measurements from existing flow meters on influent forcemains are used to quantify each collection agency's influent volumes. Flows are continuously measured for San Rafael Sanitation District, the Ross Valley interceptor, Sanitary District No. 2 of Marin County, and San Quentin State Prison, and are calculated for Ross Valley Sanitary District.

#### II. All Other Revenues

Other Agency revenues consist of capacity charges, contract service revenues, investment interest income, environmental compliance permit and inspection fees, septic hauler disposal fees, organic waste tipping fees, program expense reimbursements to CMSA, and miscellaneous charges for other services.

### **PROCEDURES**

# I. Service Charges

Service charges shall be billed to the member agencies at the beginning of each quarter, set at one-fourth of the annual budgeted amount. A service charge adjustment will be made with the fourth quarter invoice to reflect any changes between the service charge allocation amounts used to develop the budget and the actual amounts for each member agency, as described in each allocation procedure below.

The Board and its Finance Committee will review the Regional Charge allocations during the development of the Agency's annual budget. The annual budgeted service charge amount will be set to equal the net revenue needed to fund the Agency's annual operations and the current and future capital improvement program activities. Net revenue is defined to be total Agency budgeted revenues less estimated revenues for contract services, program services, interest income, fees from haulers, permits and inspections, and other operating revenues. Budgeted service charge revenues do not include revenues for debt service and capacity charges.

#### A. Service Charge Allocation using Equivalent Dwelling Units (EDU)

Member agency service charge payments to CMSA may be based on each member's previous year's actual EDU count that is reported to CMSA. The Board shall set the exact EDU rate for the Agency's service charge during the annual budget process for the upcoming fiscal year.

During the development of the annual budget, CMSA will use the prior year's reported actual EDU count to develop the revenue budget. By March 15th, the member agencies report their actual count of EDUs to CMSA for that fiscal year. Member agencies will provide supporting documentation to substantiate their reported counts. These documents must include:

- 1) Reports from the Marin County Auditor-Controller that summarizes the number of EDU (sanitary units) that each district has placed on the property tax roll.
- 2) Listing of EDUs for governmental or other entities that each district bills directly for sewer services charges. Typically, these are entities that are not on the County's property tax rolls.
- 3) Any variances between the reported actual EDU and the sum of EDU count from items 1 and 2. These could be EDU adjustments that the district granted to its ratepayers after the sanitary units were placed on the property tax rolls.

Staff will analyze the EDU count and supporting information received from each Member Agency and consult with each Member Agency as appropriate. The EDU data reported by the member agencies will be used to prepare the revenue presentation for the Third Quarter Budget Report that is provided to the Board in May. In the event complete EDU information is not available, staff will seek Board direction on how to calculate the fourth quarter invoices.

Once Agency staff has verified the reported actual EDU counts in the supporting documents, Finance staff will reconcile the EDU counts used in the budget with the actual reported EDU counts, and invoice each Member Agency accordingly.

#### B. Service Charge Allocation using Flow Volumes

The Board will establish the measurement period for using flow volumes to determine the service charge allocation. The minimum measurement period will be 12 months and the maximum period will be 36 months. The measurement period will be in 12-month increments.

# 1) Allocation of Regional Charges by Flow Volume

Once the upcoming revenue budget has been developed, the Finance staff prepares an allocation of the service charges based on the prior flow volumes in 12-month increments. Each satellite collection agency's allocation for the upcoming fiscal year will be included in the draft and adopted Agency budgets.

Percentage allocations are based only on volumetric flow measurements as recorded by CMSA flow meter data. The allocations are determined using the equations below:

 $Volume_{Total} = Volume_{SRSD} + Volume_{SD1} + Volume_{SD2}$ 

%  $Allocation_{Agency} = \frac{Volume_{Agency}}{Volume_{Total}}$ 

 $Regional\ Charge\ Allocation_{Agency} = \%\ Allocation_{Agency}\ x\ CMSA\ Net\ Revenue_{Total}$ 

### 2) Collection of Regional Charge

Once the Agency's budget has been adopted, the Agency will invoice each satellite collection agency for its respective portion of the regional charge on a quarterly basis starting on July 1 of each fiscal year. Each quarterly invoice will represent one-fourth of the allocated annual regional charge.

Prior to the issuance of the fourth quarterly invoice, the Administrative Services Manager (ASM) will recalculate the current fiscal year's regional charge allocation based on the flow volumes for the most current April 1 to March 31 measurement period. The adjustment between the budgeted and current regional charge allocation will be reflected on the invoice for the fourth quarter.

# C. Service Charge Allocation using Volume/Quality (Flow/Strength)

1) <u>Calculation of annual volume of the wastewater generated from each satellite collection entity.</u>

Each April, the Technical Services (TS) staff will provide Finance staff with the annual volume of wastewater generated from each satellite collection entity for the previous April 1 to March 31 period or prior 36-month period.

2) <u>Calculation of annual wastewater quality (strength) from each satellite collection entity.</u>

Quality is defined as the amount (lbs.) of Total Suspended Solids (TSS) and Biological Oxygen Demand (BOD) in a collection agency's wastewater transported to CMSA. Quality samples will be periodically collected by Technical Services staff and analyzed in the CMSA laboratory. Each April, the TS department will provide Finance staff with the wastewater quality information for each satellite collection entity.

3) Allocation of regional charges by flow volume and strength.

Once the upcoming revenue budget has been developed, the Finance staff will prepare an allocation of the regional charges based on the selected April 1 to March 31 time period. Each satellite collection agency's allocation for the upcoming fiscal year will be included in the draft and adopted Agency budgets.

The Agency's Annual Net Revenues will be assigned to flow, BOD and TSS based on the allocations developed in 2013 (Bartle Wells) and accepted by the Board in April 2013: Flow -50.6%, BOD -24.7%, and TSS -24.7%

Using the percentage allocations listed above and influent flow and quality data, unit costs (i.e., \$/1,000 gallons of flow, \$/lb of BOD and \$/lb of TSS) are then used to allocate CMSA's Regional Charge to each collection agency based on its respective flow, BOD, and TSS costs, using the following equations:

 $Net\ Revenue_{Total} = Revenue_{Flow} + Revenue_{BOD} + Revenue_{TSS}$ 

$$Unit\ Cost_{Flow} = \frac{Revenue_{Flow}}{Total\ Gallons}$$

$$Unit\ Cost_{BOD} = \frac{Revenue_{BOD}}{Total\ Pounds\ BOD}$$

$$Unit\ Cost_{TSS} = rac{Revenue_{TSS}}{Total\ Pounds\ TSS}$$

 $\label{eq:regional Charge Allocation} Regional \ Charge \ Allocation_{Agency} \\ = \ Unit \ Cost_{Flow} \ x \ Flow_{Agency} + \ Unit \ Cost_{BOD} \ x \ BOD_{Agency} \\ + \ Unit \ Cost \ x \ TSS_{Agency}$ 

# 4) <u>Collection of regional charge.</u>

Once the Agency's budget has been adopted, the Agency will invoice each satellite collection agency for its respective portion of the regional charge on a quarterly basis starting on July 1 of each fiscal year. Each quarterly invoice will represent one-fourth of the allocated annual regional charge.

Prior to the issuance of the fourth quarterly invoice, Finance staff will recalculate the current fiscal year's regional charge allocation based on the flow volumes and quality for the most current April 1 to March 31 period. The adjustment between the budgeted and current regional charge allocation will be reflected on the invoice for the fourth quarter.

#### II. Debt Service Charge

Per the Payment Agreements for Treatment Services (debt service agreements) between CMSA and the member agencies, each member agency's proportional EDU share of the debt service shall be billed and collected semi-annually during each fiscal year. The payment shall be based on the EDU counts referenced in the Memorandum of Understanding, dated September 21, 2016, that uses the 10-year average fixed EDU

counts per member for debt service cost allocation purposes. Each Member Agency's semi-annual payment share shall be calculated to include the actual debt service amount and bond coverage requirements. An adjustment will be made in the subsequent fiscal year's debt service payment for the recalculation of the prior year's debt service payment based on the actual EDU count information.

# III. Capacity Charge

A one-time capacity charge shall be collected by the appropriate Member Agency for an initial connection to the wastewater collection system in the CMSA service area. This charge shall be set by the Board by ordinance. Each member agency shall collect both the CMSA capacity charge and the Member Agency's connection fee. After collection, the Member Agency shall remit the capacity charge portion to CMSA.

The number of connections that occur each fiscal year is unpredictable because connections vary due to new construction or other activities that would trigger a connection fee. Thus, the Board shall consider various economic factors when budgeting capacity charge revenue for the fiscal year. The Board shall approve through the annual budget process and Agency staff shall account for use of capacity charges to fund capital projects per California Government Code Section 66006.

# IV. Permit and Inspection Fees

The Board shall set by ordinance specific fees that Agency staff will collect for services related to environmental, public health, and regulatory responsibilities under the Agency's jurisdiction--see the *Sewer Use Ordinance* and the *Fee Ordinance*. When setting a fee, the timeframe in which the fee is valid shall be set and the fee will be calculated to recover the full cost of the services as described below under V. *Fees for Service*.

#### V. Fees for Service

Fees charged to outside agencies for Agency provided services under contract shall be based on mutually agreed-to terms, under which the Agency recovers the full cost of providing such services. The principles of cost accounting shall apply for recovery of direct materials, direct labor, and administrative overhead. Labor charges shall be recovered using the weighted labor rate that includes the cost of salaries and benefits and other considerations. Contract revenues shall be billed monthly, while program revenues are billed periodically pursuant to each specific agreement.

#### VI. Accounts Receivable

According to *Generally Accepted Accounting Principles* (GAAP), Agency staff shall record a receivable for sewer service charges, capacity charges, permit and inspection fees, and other fees for service when the revenue is due to the Agency. The Finance department will conduct a monthly reconciliation of accounts receivable and identify outstanding payments due to CMSA. Accounts receivable shall be accrued to the proper accounting period based upon the date the services were performed.

POLICY #: 521

SECTION: FINANCIAL – REVENUE MANAGEMENT

SUBJECT: Agency Service Contracts

DATE: 11/13/2018

# **POLICY**

All Agency service contracts shall sufficiently recover the full cost of providing such service.

### **PROCEDURE**

The General Manager will receive all written requests from public entities for CMSA services and will ask the appropriate Department Manager to conduct a feasibility review for the provision of the requested services. The General Manager will then determine if the Agency has the existing resources, staff expertise, and capacity to provide the services being requested. The Agency will recover the full costs for all services provided including staff compensation and benefits, and Agency overhead. If a mutually beneficial contract is feasible, a draft proposal will be brought to the Board of Commissioners for review, discussion, and consideration of authorization to negotiate an agreement with the public entity requesting CMSA's services.

The General Manager will present the negotiated agreement to the CMSA Board for consideration of approval. Once approved by the Board, the agreement will be executed by CMSA after the designated official of the entity requesting CMSA services has executed the agreement.

Return to TOC

POLICY #: 530

SECTION: FINANCIAL – TREASURY

SUBJECT: General DATE: 11/13/2018

#### **POLICY**

The Board shall appoint a Treasurer to oversee the management and reporting of controllable financial assets in accordance with Agency policy and California law.

#### **PROCEDURES**

This policy provides direction for managing the Agency's treasury and investments, and to ensure fiduciary responsibility and prudent review, planning, and approval of treasury transactions.

# I. Treasurer Appointment

Based on the General Manager's recommendation, the Board of Commissioners shall appoint a Treasurer to manage, secure, control, account, audit, report, and develop effective procedures for controlling and handling financial assets and investments to the benefit of the Agency in accordance with the CMSA Joint Exercise of Powers Agreement and Government Code 6505.5, et seq.

# II. Treasurer Report

Agency staff shall prepare monthly Treasurer Reports containing summary information for each operating account in use by the Agency. The reports shall contain information with respect to Agency cash receipts, cash disbursements, and account balances. The reports shall also include an Operating Account Disbursement Register Report that lists and describes all operating account cash disbursements during the reporting month. The Board shall review and accept the Treasurer Report.

#### III. Schedule of Investments

Agency staff shall prepare a monthly Schedule of Investments report containing a summary of the Agency's investment accounts activity including each individual investment. The Board shall review and approve the Schedule of Investments.

#### IV. Bank Reconciliation

Agency staff shall perform a monthly reconciliation of the Agency's operating bank account, investment accounts, and bond fund accounts. The Agency staff person preparing the accounts payable shall not perform the bank reconciliation.

Return to TOC

SECTION: FINANCIAL – TREASURY

SUBJECT: Investments DATE: 03/14/2019

# **POLICY**

Every spring, the General Manager and Treasurer shall submit to the Board of Commissioners this *Investments* policy, where the Board shall review any changes in the policy and approve it at a public meeting.

## **PURPOSE**

This policy provides guidelines for prudent investment of the Agency's cash. This policy covers all funds and investment activities under the direction of the Agency in accordance with California Government Code Sections 53600, et seq.

## **OBJECTIVES**

The Agency shall design and manage investments with a high degree of professionalism worthy of the public trust. The primary objectives, in order of priority of the Agency's investment activities, shall be:

# I. Safety

Safety of principal is the foremost objective. All investments of the Agency shall be made in a manner that seeks to ensure preservation of capital.

# II. Liquidity

The investment portfolio shall remain sufficiently liquid to enable the Agency to meet any cash flow requirements which might be reasonably anticipated.

#### III. Yield

Investment return becomes a consideration only after the basic measurements of safety and liquidity have been met.

#### **PRUDENCE**

The Agency shall follow Section 53600.3 of the California Government Code that identifies as trustees those entities, i.e. California Asset Management Program (CAMP) and Local Agency Investment Fund (LAIF), authorized to make investment decisions on behalf of a local agency. Trustees are fiduciaries and are therefore subject to the prudent investor standard when making investment decisions on behalf of the Agency. Investments shall be made with care, skill, prudence, and diligence under the circumstances then prevailing, including, but not limited to, the general economic conditions and the anticipated needs of the Agency, that a

prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the Agency.

## **DELEGATION OF AUTHORITY**

The Board of Commissioners shall delegate authority to invest the Agency's funds for a one-year period to the Treasurer, who shall thereafter assume full responsibility for those transactions until the delegation of authority is revoked or expires. Subject to review, the Board may renew the delegation of authority each year. No person may engage in an investment transaction except as provided under the limits of this policy.

The Treasurer may delegate day-to-day investment decision-making and execution authority to an Investment Advisor. The Advisor shall follow this policy and such other written instructions as are provided.

The Treasurer and the delegated staff acting in accordance with this policy and associated procedures and exercising due diligence shall be relieved of personal responsibility for an individual security's credit risk or market price changes, provided deviations from expectations are reported in a timely fashion and appropriate action is taken to control adverse developments.

# **INTERNAL CONTROLS**

The Treasurer shall establish a system of controls to regulate the activities of internal staff and any external investment advisors, and be responsible for all transactions undertaken by these persons. No person may engage in an investment transaction except as provided under the terms of this policy, other Treasury and Internal Controls policies, and the associated procedures established by the Treasurer and General Manager.

# **ETHICS AND CONFLICTS OF INTEREST**

All participants in the investment process shall seek to act responsibly as custodians of the public trust according to this policy and the *Ethics* policy. Officers and employees involved in the investment process shall refrain from personal business activities that could conflict with proper execution of the investment program, or which could impair their ability to make impartial investment recommendations and decisions.

## TYPES OF AGENCY INVESTMENTS

The Agency shall be governed by California Government Code Sections 53600, et seq. Within the investments permitted by the Government Code, the Agency seeks to further restrict eligible investments to those listed below. In the event an apparent discrepancy is found between this policy and the Government Code, the more restrictive parameters shall take precedence.

The Agency's portfolio shall be diversified by security type and institution to avoid incurring unreasonable and avoidable risks regarding specific security types or individual financial institutions. Where this section specifies a percentage limitation for a particular category of investment, that percentage is applicable only at the date of purchase.

# I. United States Treasury Issues

United States Treasury notes, bonds, bills, or certificates of indebtedness, or those for which the faith and credit of the United States are pledged for the payment of principal and interest. There is no limitation as to the percentage of the portfolio that may be invested in this category.

# II. Federal Agency Obligations

Federal Agency or United States government-sponsored enterprise obligations, participations, or other instruments, including those issued by or fully guaranteed as to principal and interest by federal agencies or United States government-sponsored enterprises. There is no limitation as to the percentage of the portfolio that may be invested in this category; however, not more than 30 percent of the portfolio shall be placed in any one Agency. Furthermore, purchases of callable Federal Agency obligations are limited to a maximum of 20 percent of the portfolio. In addition, purchases of Federal Agency mortgage-backed securities issued by or fully guaranteed as to principal and interest by government agencies are limited to a maximum of 20 percent of the portfolio.

#### III. Medium-Term Notes

Medium-term notes, defined as all corporate and depository institution securities with a maximum remaining maturity of five years or less, issued by corporations organized and operating within the United States or depository institutions licensed by the United States or any state and operating within the United States. Eligible investment shall be rated A by one or more nationally recognized rating service. A maximum of 30 percent of the portfolio may be invested in this category. The amount invested in medium-term notes with any one issuer in combination with any other investments from that financial institution or issuer shall not exceed 20 percent of the portfolio.

# IV. Municipal Securities

Bonds, notes, warrants, or other evidences of indebtedness issued by the State of California or any California local agency. Securities eligible for purchase shall be rated A, as rated by one or more nationally recognized statistical-rating organization. A maximum of 30 percent of the Agency's portfolio may be invested in this category.

# V. Negotiable Certificates of Deposit

Negotiable certificates of deposit (NCD) issued by a nationally- or state-chartered bank, a savings association or a federal association, a state or federal credit union, or a state-

licensed branch of a foreign bank. No investments shall be made in a bank or credit union if a member of the Board, or any person with investment decision making authority also serves on the board of directors, or any committee appointed by the board of directors of the bank or credit union issuing the NCD. Purchases are limited to institutions which have long-term debt rated A or higher with a nationally recognized rating service; and/or have short-term debt rated at least A with a nationally recognized rating service. NCD may not exceed two years in maturity. A maximum of 30 percent of the portfolio may be invested in this category. The amount invested in NCD with any one financial institution in combination with any other investments from that financial institution or issuer shall not exceed 20 percent of the portfolio.

# VI. Banker's Acceptances

Banker's Acceptances, otherwise known as bills of exchange or time drafts, are those which are drawn on and accepted by a commercial bank. Purchasers are limited to issuers whose short-term debt is rated A-1/P-1. Banker's Acceptances cannot exceed a maturity of 180 days. A maximum of 25 percent of the portfolio may be invested in this category. Furthermore, the amount invested in Banker's Acceptances with any one financial institution in combination with any other investments from that financial institution or issuer shall not exceed 20 percent of the portfolio.

## VII. Commercial Paper

Commercial paper of prime quality of the highest ranking or of the highest letter and number rating as provided for by a nationally recognized statistical-rating organization. The entity that issues the commercial paper shall meet all of the following conditions in either paragraph (A) or paragraph (B):

- A. The entity meets the following criteria:
  - 1) Is organized and operating in the United States as a general corporation.
  - 2) Has total assets in excess of five hundred million dollars (\$500,000,000).
  - 3) Has debt other than commercial paper, if any, that is rated AA or higher by a nationally recognized statistical-rating organization.
- B. The entity meets the following criteria:
  - 1) Is organized within the United States as a special purpose corporation, trust, or limited liability company.
  - 2) Has program-wide credit enhancements including, but not limited to, over collateralization, letters of credit, or surety bond.
  - 3) Has commercial paper that is rated AA-1 or higher, or the equivalent, by a nationally recognized statistical-rating organization.

Eligible commercial paper shall have a maximum maturity of 270 days or less and not represent more than 10 percent of the outstanding paper of an issuing corporation. A maximum of 25 percent of the portfolio may be invested in this

category. Furthermore, the amount invested in commercial paper with any one issuer in combination with any other investments from that financial institution or issuer shall not exceed 20 percent of the portfolio.

# VIII. Repurchase Agreements

- A. Repurchase agreements are to be used solely as short-term investments not to exceed 30 days. The Agency may enter into repurchase agreements with primary government securities dealers rated AA or better by two nationally recognized rating services. Counterparties should also have:
  - 1) A short-term credit rating of at least A-1/P-1;
  - 2) Minimum assets and capital size of \$25 billion in assets and \$350 million in capital;
  - 3) Five years of acceptable audited financial results; and
  - 4) A strong reputation among market participants.
- B. The following collateral restrictions shall be observed:
  - 1) Only U.S. Treasury securities or Federal Agency securities are acceptable collateral. All securities underlying repurchase agreements shall be delivered to the Agency's custodian bank versus payment or be handled under a properly executed tri-party repurchase agreement.
  - 2) The total market value of all collateral for each repurchase agreement shall equal or exceed 102 percent of the total dollar value of the money invested by the Agency for the term of the investment.
  - 3) For any repurchase agreement with a term of more than one day, the value of the underlying securities shall be reviewed on an on-going basis according to market conditions. Market value shall be calculated each time there is a substitution of collateral.
  - 4) The Agency or its trustee shall have a perfected first security interest under the Uniform Commercial Code in all securities subject to repurchase agreement. The Agency shall have properly executed a Public Securities Association agreement with each counter party with which it enters into repurchase agreements. A maximum of 25 percent of the portfolio may be invested in this category.

# IX. Time Certificates of Deposit

Time Certificates of Deposit (TCDs) placed with commercial banks and savings and loans. The purchase of TCDs from out-of-state banks or savings and loans is prohibited. The amount on deposit shall not exceed the shareholder's equity of the financial institution. To be eligible for purchase, the financial institution shall have received a minimum overall satisfactory rating for meeting the credit needs of California Communities in its most recent evaluation, as provided Government Code Section 53635.2. TCDs are

required to be collateralized as specified under Government Code Section 53630, et seg.

The Agency, at its discretion, may waive the collateralization requirements for any portion that is covered by federal insurance. The Agency shall have a signed agreement with the depository per Government Code Section 53649. TCDs may not exceed one year in maturity. A maximum of 20 percent of the portfolio may be invested in this category. Furthermore, the amount invested in TCDs with any one financial institution in combination with any other investments from that financial institution or issuer shall not exceed 20 percent of the portfolio.

# X. Passbook Savings Accounts

Passbook savings accounts placed with commercial banks and savings and loans. To be eligible to receive deposits, the financial institution shall have received a minimum overall satisfactory rating for meeting the credit needs of California Communities in its most recent evaluation, as provided Government Code Section 53635.2. Passbook savings accounts are required to be collateralized as specified under Government Code Section 53630 et. seq.

The Agency, at its discretion, may waive the collateralization requirements for any portion that is covered by federal insurance. The Agency shall have a signed agreement with the depository per Government Code Section 53649. A maximum of 20 percent of the portfolio may be invested in this category. Furthermore, the amount invested in passbook savings accounts with any one financial institution in combination with any other investments from that financial institution or issuer shall not exceed 20 percent of the portfolio.

# XI. Money Market Funds

Shares of beneficial interest issued by diversified management companies that are money market funds registered with the Securities and Exchange Commission under the Investment Company Act of 1940 (15 U.S.C. Sec. 80a-1, et seq.).

- A. The company shall have met either of the following criteria:
  - Attained the highest ranking or the highest letter and numerical rating provided by not less than two nationally recognized statistical rating organizations.
  - 2) Retained an investment adviser registered or exempt from registration with the Securities and Exchange Commission with not less than five years' experience managing money market mutual funds with assets under management in excess of five hundred million dollars (\$500,000,000).

A maximum of 10 percent of the portfolio may be invested in this category.

# XII. California Asset Management Program (CAMP)

Shares of beneficial interest issued by a joint powers authority organized pursuant to Government Code Section 6509.7 that invests in the securities and obligations authorized in subdivisions (a) to (n), inclusive of to Government Code Section 53601. There is no limitation as to the percentage of the portfolio that may be invested in this category.

# XIII. State of California Local Agency Investment Fund (LAIF)

There is no limitation as to the percentage of the portfolio that may be invested in this category. However, the amount invested may not exceed the maximum allowed by LAIF.

# **Authorized Investments**

The Treasurer and/or the authorized Investment Advisor shall have the authority to invest the Agency's financial resources as shown in the table below.

Investment Type	Authorized for the	Authorized for the
	Investment Advisor	Agency Treasurer
United States Treasury Issues	X	X
Federal Agency Obligations	X	X
Medium-Term Notes	X	
Municipal Securities	X	X <sup>(1)</sup>
Negotiable Certificates of Deposit	X	X <sup>(2)</sup>
Banker's Acceptances	X	
Commercial Paper	X	
Repurchase Agreements	X	
Time Certificates of Deposit	X	Х
Passbook Savings Accounts	X	Х
Money Market Funds	X	Х
CAMP	X	Х
LAIF	X	Х

<sup>(1)</sup> Municipal Securities must have an AAA rating.

#### **TERM OF INVESTMENTS**

It is the objective of the Agency to accurately monitor and forecast revenues and expenditures so that the Agency can invest funds to the fullest extent possible. Funds of the Agency shall be invested in accordance with sound treasury management principles.

Where this policy does not specify a maximum remaining maturity at the time of the investment, no investment shall be made in any security, other than a security underlying a repurchase agreement, that at the time of the investment has a term remaining to maturity in

<sup>(2)</sup> Negotiable Certificates of Deposit must have a minimum AA rating for long-term notes and AA-1 for short term notes.

excess of five years, unless the Board has granted express authority to make that investment either specifically or as a part of an investment program approved by the Board no less than three months prior to the investment.

# **PROHIBITED INVESTMENTS**

Any investment in a security not specifically listed above, but otherwise permitted by the California Government Code, is prohibited. Section 53601.6 of the Government Code specifically disallows investments in invoice floaters, range notes, or interest-only strips that are derived from a pool of mortgages. In addition to the limitations in Government Code Section 53601.6, this policy further restricts investments as follows:

- I. No investment shall be made that has either (a) an embedded option or characteristic which could result in a loss of principal if the investment is held to maturity, or (b) an embedded option or characteristic which could seriously limit accrual rates or which could result in zero accrual periods.
- II. No investment shall be made that could cause the portfolio to be leveraged.
- III. Any security that could result in zero interest accrual if held to maturity shall not be made.

## **BANKS AND SECURITIES DEALERS**

The Treasurer, with the concurrence of the General Manager, is authorized to make investments based on the recommendations of the Board approved investment advisor. For investments made by an investment advisor, the Board authorizes the investment advisor to use broker/dealers and financial institutions that the investment advisor has reviewed and approved for investment purposes. The investment advisor's approved list shall be made available to the Agency upon request.

#### PURCHASE, PAYMENT, DELIVERY, AND SAFEKEEPING

A competitive bid process shall be used to place all investment transactions. All security transactions entered into by or on behalf of the Agency shall be conducted on a delivery vs. payment basis. All securities shall be held in the Agency's name by a third party custodian designated by the Treasurer.

The only exception to the foregoing shall be depository accounts and securities purchases made with:

- I. Local government investment pools;
- II. Time certificates of deposit, and,
- III. Money market mutual funds, since the purchased securities are not deliverable.

Evidence of each of these investments shall be held by the Treasurer.

# **PERFORMANCE**

The Agency seeks to attain market rates of return on its investments throughout economic cycles, consistent with constraints imposed by its safety objectives and cash flow consideration. The Treasurer shall continually monitor and evaluate the portfolio's performance.

# **REPORTING**

The Treasurer shall submit a monthly investment report to the Board. The report shall include the following information for each individual investment: description of investment instrument, issuer name, maturity date, credit rating, yield to maturity, purchase price, par value, current market value and the source of the valuation.

The report also shall:

- I. State compliance of the portfolio to the statement of investment policy, or manner in which the portfolio is not in compliance,
- II. Include a description of any of the Agency's funds, investments or programs that are under the management of contracted parties, including lending programs, and
- III. Include a statement denoting the ability of the Agency to meet its expenditure requirements for the next six months, or provide an explanation as to why sufficient money may not be available.

The report shall include a list of monthly investment transactions. This monthly report shall be submitted with the Board's monthly meeting agenda for public review.

SECTION: FINANCIAL – TREASURY

SUBJECT: Reserve DATE: 11/13/2018

## **POLICY**

To maintain liquidity, stabilize rates, provide for contingencies, and prevent deficit cash position, the Agency shall maintain operating, capital, emergency, and insurance reserves in accordance with the procedures below. The Agency shall report reserve balances by designation in its monthly investment report to the Board.

## **PROCEDURES**

Establishment of reserves ensure that the Agency has sufficient funding available to meet its operating and capital obligations, and provides better alignment of the Agency's resources identified in long-term financial plans to the funding requirements for the 10-Year Capital Improvement Plan. Adequate reserves promote the Agency's bond ratings in the capital markets; provide financing flexibility; avoid potential restrictive debt covenants; mitigate current and future risk; and ensure the JPA member agencies stable service charges.

#### I. General

The Agency's reserves shall be held in the Agency's Local Agency Investment Fund (LAIF) or California Asset Management Program (CAMP) accounts, either as short- or long-term investments in accordance with the Agency's *Investment* policy.

# II. Reserve Fund Designations

Reserve designations better links the Agency's available cash resources, as reported in the Agency's Financial Statements, to the Annual Budget and Capital Improvement Program. The integration of reserve designations makes the annual budget a more comprehensive document because it accounts for the accumulation and usage of all available resources instead of just the anticipated revenues and expenditures for that fiscal year. This expanded budget view can be used to explain future sewer service charges or capital borrowing to all interested stakeholders. The establishment of cash reserve designations also enhances long-term planning and management of the Agency's financial resources.

# III. Development, Management, Oversight, and Reporting of Reserves

The development, management, and oversight of Agency reserves is intended to be aligned with the development, management, and oversight of the Agency budget. During the annual budget development process, the Treasurer develops an initial projection of the Agency expenses and revenues for the upcoming year. The General Manager and Treasurer will propose allocations to and from the reserves based on this

reserve policy, Agency priorities, and/or direction from the Board. The accumulation and uses of the reserves are a component of the annual budget and are subject to Board review and approval. The annual budget will also report the final status of the reserves for the prior year based on the audited financial statements.

Consistent with the established *Annual Budget* policy, the General Manager, with approval from the Chair of the Board, is authorized to expend up to \$100,000 directly from any of the unrestricted reserve accounts in the event of an emergency situation that would directly and critically affect the Agency's operations. The General Manager shall report to the Board the circumstances requiring the expenditures at its next meeting. Otherwise, Board approval is required prior to any transfer or expenditures of reserve funds that were not previously budgeted.

Board authorization is required to establish any new reserve designations.

# IV. Reserve Types

Two major categories of reserve funds have been established: Restricted Reserves and Unrestricted Reserves.

# A. Restricted Reserves

These reserves represent assets that are legally or contractually obligated for a specific purpose. Typically, the Board does not have the authority to modify or remove these restrictions or reserves.

## B. Unrestricted Reserves

These reserves represent assets for future spending plans. The Board does have the authority to establish, modify, or remove these reserves.

Deductions (i.e., payments) from either reserve type shall follow documented Agency administrative and procurement policies and procedures. Any addition of new or removal of existing reserve types will require an update to this policy and subsequent Board approval.

# V. Designations for Reserves

The Agency has established the following designations for the restricted and unrestricted reserves.

## A. Designations for Restricted Reserves

1) <u>Capacity Charges</u>: The CA Government Code requires separate accounting of capacity charges and the application of interest to outstanding balances. The Agency shall use capacity charges on a first-infirst-out basis to finance current year capital projects. In the event that the amount collected in any given year exceeds capital project expenses, the Agency would have to hold the excess funds for future use. Should this situation occur, the excess funds will be placed in this Capacity Charge Reserve. Staff would then recommend these funds as a proposed

funding source for the following fiscal year's Capital Improvement Program.

2) <u>Coverage from Debt Service:</u> This is a contractually obligated requirement from revenue bond rate covenants and represents 25% of the debt service payment that is collected from the JPA member agencies semi-annually. The expenditure of these funds is solely for the Capital Improvement Program.

Funds are added to this reserve after each debt service contribution from the member agencies. Funds received in the fiscal period collected cannot be expended in that same fiscal year. Funds remain in this reserve until budgeted; these funds are preferentially used to fund approved projects from the Capital Improvement Program.

The distinction between this restricted reserve and the unrestricted Capital Improvement Program Reserve is in the source of funding. The Reserve for Coverage for Debt Service is considered to be restrictive due to Bond Indenture requirements that limit its usage to capital expenditures. The Capital Improvement Program Reserve is considered to be unrestrictive because its source is from service charges and/or other general purpose revenues and thus could be available to fund non-Capital expenses.

B. Designations for Unrestricted Reserves

The source of funds for these reserves is from service charges and/or other general purpose revenues. When funds are available for unrestricted reserves, they should be allocated to maintain the reserve requirements in the following preferential order. All allocations to reserves are subject to Board review and approval.

- 1) Operating Reserve for Economic Uncertainties: This reserve represents three months funding for general Agency operations. Funding will be adjusted annually to maintain three months of operational funding.
- 2) <u>Capital Improvement Program</u>: This Reserve funds projects and initiatives from the Capital Improvement Program. The target funding level will be determined in conjunction with the Agency's 10-Year Capital Improvement Program and financial model.

The distinction between this reserve and the Coverage from Debt Service Reserve is the source of funding. This reserve is considered to be unrestricted because its source is from service charges and/or other general purpose revenues and thus could be available to fund non-Capital expenses at the Board's discretion. The Coverage from Debt Service Reserve is considered to be restricted due to Bond Indenture requirements that limit its usage to capital expenditures.

- 3) <u>Self-Insurance Reserve and Deductibles</u>: This reserve represents the deductible portion for the various insurance policies carried by the Agency. The Agency funds insurance premiums from the operating budget; however the operating budget would not be able to absorb the deductible portion for insurance claims that are filed. The funding level is \$100,000 and should be adjusted if there are changes to policy coverages or deductibles.
- 4) <u>Contingency, Emergency, and Future Designations</u>: This reserve serves as a contingency for unforeseen or unanticipated emergencies and other to-be-determined items. The funding level is \$250,000.

SECTION: FINANCIAL – EXPENDITURE MANAGEMENT

SUBJECT: General DATE: 11/13/2018

## **POLICY**

The Agency shall provide for authorized transactions only in accordance with expense categories adopted in the annual budget.

## **PROCEDURES**

The budget adopted by the CMSA board serves as the policy document governing Agency expenditures. Operating expenditures are managed and categorized as Agency-wide, by department, and by major or special funding sources as shown in the Adopted Budget.

# I. Employee Compensation and Benefits

Agency staff shall follow applicable federal and state laws and regulations for administering the Agency's employee compensation and benefits. The specifics of Agency compensation and benefits are defined in Agency documents, such as:

- A. Personnel Policies and Procedures manual;
- B. Memorandums of Understanding and other agreements with employee groups;
- C. Agreements with CalPERS for health and retirement benefits; and
- D. Agreements with other benefits providers.

Agency staff shall perform payroll processing on a bi-weekly basis covering a two-week period beginning on Sunday, ending on Saturday, with payment on the following Friday. Other types of payroll transactions such leave cash-out will also be processed in conjunction with the bi-weekly payroll schedule. All payroll changes shall require a completed personnel action form with authorization by the appropriate managers and employees, where applicable, prior to any changes being made in the payroll system.

## II. Accounts Payable

Agency staff shall adhere to the following policies when conducting Agency procurement and expenditure activities: *Policy Framework, Signature Authority, Contracting,* and *Purchasing*.

All expenditures will include the appropriate support documentation (e.g., purchase order, invoice, account statement, receipt, and packing slip) and shall be approved by the Department Manager and/or General Manager. According to Generally Accepted Accounting Principles (GAAP), Finance staff shall review and record in a timely manner all accounts payable to ensure the proper recognition of expenses and liabilities. Finance staff shall charge payables to the proper accounting period based upon the date

the services were provided and perform a monthly reconciliation of accounts payable.

# III. Petty Cash

Agency staff shall maintain a petty cash account that can be used for cash transactions. Disbursements from petty cash shall be pursuant to the *Purchasing policy*.

SECTION: FINANCIAL – EXPENDITURE MANAGEMENT

SUBJECT: Travel, Training, and Other Business Expense Reimbursements

DATE: 11/13/2018

## **POLICY**

The Agency shall reimburse employees for authorized business-related expenses for travel, training, and other business purposes using authorized amounts.

#### **PROCEDURES**

This policy defines the authorization, payment, and reimbursement of travel, training, and other business expenses incurred by Agency staff while conducting Agency business.

#### I. GENERAL

The General Manager shall establish procedures for authorizing, paying, restricting, and reimbursing employees for travel, training, and other business-related expenses. Travel per diem rates shall be adjusted at the beginning of each calendar year based on the change in the Consumer Price Index-Urban/San Francisco-Oakland-San Jose for the prior February-to-February period, rounded up to the nearest \$0.50. The Board shall review and approve the per diem rates when they exceed 120% of the February 2015 rates.

The per diem rates for meals, gratuities, and incidentals as of February 1, 2018 are as follows:

TRAVEL PERIOD	FEBRUARY 1, 2018 PER DIEM	MAXIMUM PER DIEM RATE (120% of FEB. 2015)
Overnight Travel per 24-hour period	\$91.00	\$101.00
Travel between 12 and 24 hours	\$68.00 or 75% of Overnight Travel Rate	\$76.00
Daily travel less than 12 hours	Breakfast \$13.00 Lunch \$17.00 Dinner \$26.00	Breakfast \$14.50 Lunch \$18.00 Dinner \$29.00

An employee who has been issued a State of California Purchase Card (Agency credit card) shall also comply with the *Purchasing policy*, when using the purchase card for travel and training related expenses. Each employee is responsible for the expenses that he/she incurs while traveling on Agency business. The employee is encouraged to consult with their supervisor should they have any questions about travel related expenses.

## II. Required Authorization

Agency staff shall obtain supervisory, department manager, and/or General Manager approval, as prescribed in the established procedures, prior to incurring any Agency expenses related to travel or other business functions. When alternatives are available, the Agency will pay for the least cost alternative.

All Agency staff shall provide a full accounting for all meeting and travel related expenses, with receipts, regardless of whether the expense was advanced or prepaid by the Agency or incurred directly by the employee. The accounting will be submitted to the employee's supervisor, department manager, Administrative Services Manager, and/or General Manager for approval. The Administrative Services Manager will review the accounting and determine the reimbursement to the employee or the repayment for advances to the Agency, whichever is applicable.

The decision of the General Manager shall be final in situations where there are conflicts of opinion regarding the appropriateness of reimbursements.

# III. Federal Income Tax Withholding (FITW)

This policy and related procedures shall comply with the IRS definition of reimbursements and accountable expenditures per *IRS Publication 463*. Advances or reimbursements made to employees for purposes specified in this policy are generally not subject to FITW, and thus not reported as other compensation on the employee's annual W2-Wage and Tax Statement. Any employee who does not follow this policy when requesting an advance and/or reimbursement will be solely responsible for any federal and state tax liabilities that result from the receipts of Agency funds.

SECTION: FINANCIAL – FINANCIAL PLANNING

SUBJECT: Annual Budget DATE: 04/09/2019

## **POLICY**

The Board of Commissioners shall adopt a comprehensive balanced annual or biennial budget for the Agency prior to the start of the fiscal year (July 1 to June 30).

### **PROCEDURE**

The annual budget is a document specifying the allocation of Agency resources for the priorities approved by the Board of Commissioners for the fiscal year. The adoption of a fiscal year budget by the CMSA Board is a statutory requirement for California public agencies, and is also specified in the Agency's Joint Powers Agreement.

The annual budget that is presented to the Board for adoption shall include the following components:

- Departmental budgets with three-year budget comparisons: prior fiscal year, current fiscal year approved budget and projected expenditures, and proposed budget for the upcoming fiscal year;
- Descriptions and explanations of specific revenues and expenditure categories and lineitems;
- Funding for the Agency's annual OPEB (retiree medical expenses) contribution, pursuant to the Agency's OPEB Funding Plan.
- Identification of Agency staff responsible for routinely monitoring, tracking, and making transaction decisions with respect to specific budget categories and/or line-items within each department budget;
- Allocation of Regional/Sewer Service Charges to JPA Members and San Quentin;
- Allocation of Debt Service Charges to JPA Members and San Quentin;
- 10-Year Capital Improvement Program with budget allocations for capital projects and initiatives;
- Proposed accumulations and uses for Agency reserves; and
- 10-Year Financial Forecast.

## I. Budget Development

The annual budget represents the Agency's financial blueprint to maintain effective wastewater operations that comply with the Agency's various operating permit requirements. The budget describes the funding requirements and operating costs associated with providing wastewater services, and the maintenance, replacement, and improvement of the facility infrastructure and assets. It shall include, but is not limited to, the following sections:

# A. Revenue Budget

The Revenue Budget shall detail and describe each salient revenue category, including, but not limited to, sewer service charges, capacity charges, permit fees, revenues from contract and program services, fees for wastewater and organic waste disposal at Agency facilities, and revenues for debt service payments and coverage.

## B. <u>Expenditure Budget</u>

The Expenditure Budget shall be organized by department. Specific line-items for each department shall be detailed, described, and explained for each salient operating expenditure category, including, but not limited to, salaries, benefits, professional services and studies, permits and fees, materials and supplies, facilities maintenance, equipment, treatment plant operations, and miscellaneous administrative expenses.

Included in the Expenditure Budget is the annual Actuarially Determined Contribution (ADC) for Other Post-Employment Benefits (OPEB) pursuant to the most recent GASB 75 actuarial valuation report. The annual ADC consists of medical benefit reimbursement payments to retirees as well as transfers to the OPEB trust.

# C. <u>10-Year Capital Improvement Program (CIP)</u>

The CIP shall include the proposed capital expenditure budget for the upcoming fiscal year as well as the planned projects and initiatives for the following nine fiscal years. Each project shall be clearly described. The Board shall approve the following fiscal year proposed projects as part of the annual budget approval, and conceptually approve the projects shown in the following nine fiscal years.

## D. 10-Year Financial Forecast

The Forecast shall present a multi-year comparison of the previous fiscal year's actual performance, current fiscal year's projected performance, and a ten-year projection of future revenues by all sources, expenditures, and the accumulation and use of reserves. The forecast shall guide the Board in determining current and future operating and CIP funding to meet the Agency's financial and operational needs and objectives.

At the discretion of the Board, the annual budget may also include policy statements, directives, and funding plans that explain and describe operational, capital, and/or organizational approaches for managing and handling the Agency's business and assets. Statements regarding performance accomplishments, objectives, and measurements may be included.

The General Manager shall present a draft annual budget to the Board for review no later than the May Board meeting, prior to the start of each fiscal year. The Board shall consider approving the annual budget at the June Board meeting, prior to the start of each fiscal year.

# II. Budget Reporting

During the fiscal year, the Agency's actual revenues and expenditures shall be tracked to the appropriate budget line-items to manage the Agency's financial and operational condition. Quarterly budget status reports of revenues, and operating and capital expenditures by category shall be provided to the Board for its review.

# III. Budget Transfers

The General Manager shall establish and approve procedures for department managers to (1) request budget transfers within the adopted operating and capital budgets that do not increase the total aggregate fiscal year budget, and (2) to request budget amendments that would increase the total aggregate fiscal year budget subject to the General Manager's and/or Board's review and approval.

# IV. Budget Amendments

In the event of unforeseen or unanticipated circumstances, amendments to the adopted fiscal year budget may be necessary. Budget amendments shall be considered when funds are justified, available, and necessary to maintain the Agency's ongoing operational and financial performance, and service expectations as directed by the Board.

The Board shall approve budget amendments that would increase the total aggregate fiscal year budget, based on the evaluation and recommendation of the General Manager that the proposed amendment meets the intent and purpose of this policy.

In the event of an emergency, the General Manager can approve budget amendments that would increase the Agency annual budget, with the conditions that (1) these amendments are necessary to maintain the Agency's ongoing and routine operations, and (2) the aggregate amounts of the amendments cannot exceed \$100,000. The General Manager shall notify the Chair of the Board about the situation and the reason for the budget amendment, and report to the Board about these actions at its next scheduled meeting.

# V. OPEB Funding Plan

The OPEB trust is maintained with the California Employers' Retiree Benefit Trust (CERBT). The purpose of the CERBT is to provide future funding of post-retirement medical benefits for eligible retirees. Transfers to the CERBT are irrevocable and monies in it may only be used to pay eligible medical benefits.

The OPEB Funding Plan includes funding, investment earnings, and medical expense transactional activity by year for a 20-year period. The original OPEB Funding Plan Worksheet, approved by the Board on April 9, 2019, and any adjusted worksheets will be included in the Agency's budget. The Plan will require annual monitoring to ensure it is meeting the objectives of CERBT earnings paying future medical benefits, while not becoming overfunded. Overfunding is anticipated when the CERBT has greater than \$2.2 million in 20 years.

<u>CERBT Funding</u>: The CERBT will be funded annually with the Net ADC amount from the GASB 75 Actuarial Valuation Report. Agency funding will continue until the CERBT has adequate funds to pay future retiree medical expenses, without becoming overfunded.

<u>CERBT Use</u>: When the CERBT is projected to have adequate funds and avoid the overfunding level, it will be used to fund retiree medical benefits which include CalPERS medical premiums and retiree medical expense reimbursements.

<u>Plan Adjustments</u>: Based on the annual monitoring, staff will adjust the investment earnings interest rate, retiree medical cost, and the projected medical expense rate increase, and make necessary Plan funding and/or investment strategy changes to meet the Plan objectives.

SECTION: FINANCIAL – FINANCIAL PLANNING SUBJECT: Capital Improvement Program

DATE: 11/13/2018

## **POLICY**

A Capital Improvement Program shall be prepared as an integral part of each adopted budget.

# **PROCEDURE**

The Capital Improvement Program (CIP) describes and explains the Agency's capital projects, delineated by type of capital project and funding source, over ten fiscal years (including the upcoming fiscal year). The CIP is a planning document that provides the Agency with an opportunity to evaluate and assess its capital needs from financial, engineering, operational, and planning perspectives.

#### I. General

The Agency's CIP Committee will prepare an updated 10-year CIP during the budget development process for each fiscal year. A 10-year CIP provides the Board, JPA member agencies, customers, public financing institutions, and other stakeholder groups with a sufficient long-term perspective on CMSA's infrastructure improvements and capital financial needs. It also acts as a planning document that projects future project costs on a reasonable escalated basis for the fiscal years in which the costs are planned to be expended. The Board shall review the 10-Year CIP as part of the annual budget process, and the first year of the 10-Year CIP shall be incorporated into the Agency's Annual Budget for adoption. The later years of the 10-Year CIP will be incorporated into the Agency's 10-Year Financial Forecast.

# II. CIP Schedules, Project Descriptions, and Reporting

The CIP Committee shall prepare a CIP schedule which will include a description of each capital activity, an explanation of the need for the project, estimated project costs, and proposed project delivery method. During the fiscal year, Agency staff shall track and monitor actual capital expenditures against the appropriate budgeted projects to assist in managing the individual capital accounts. Agency staff shall provide periodic CIP status reports to the Board for its information, review, and possible management direction.

The projects and initiatives in the CIP are grouped into the following four categories:

- A. Facilities Improvements: roofing, paving, coating/sealing, etc.
- B. General Equipment: vehicles, lab and communications equipment, etc.
- C. Treatment of Liquids: flow meters, turntable drives, pumps, etc.
- D. Treatment of solids and energy generation: digesters, sludge pumps, heat

exchangers, cogeneration system, emergency generator, biogas treatment systems, boilers, etc.

The determination of the types of projects, initiatives and activities that are included in the CIP can be based on the following characteristics:

- A. Procurement of equipment, vehicles or fixed assets
- B. Replacement of existing equipment/infrastructure with similar items
- C. Engineering study, pre-design work, and design of new processes or facilities
- D. New modifications to existing facilities

SECTION: FINANCIAL - FINANCIAL PLANNING

SUBJECT: 10-Year Financial Forecast

DATE: 11/13/2018

# **POLICY**

The Agency shall prepare a ten-year financial forecast with each annual budget.

# **PROCEDURE**

The 10-Year Financial Forecast is a long-term examination of the Agency's projected operating status. It provides a strategic perspective and direction for the budget process and serves as a long-term financial planning document.

Agency staff shall prepare a 10-year forecast of the Agency's financial resources that includes a status and projection of revenues by source, expenditures, capital requirements, and accumulation and use of reserves. The forecast is a multi-year comparison of actual revenues and expenditures from the prior fiscal year, a projection of the current fiscal year revenues and expenditures, and a 10-year projection of future resources and expenditures. Agency staff shall present the forecast for Board review as part of the annual budget process and the forecast shall also be included in the Agency's annual budget.

#### I. Guidance

The forecast will delineate revenues by source, operating expenditure by category, and total annual capital expenditures. Projections and analytical assumptions that are used in the forecast will be guided by Board directives, analyses of anticipated operational changes, Agency contract obligations, economic trends and indices, and financial data from prior fiscal years, along with other relevant financial and analytical perspectives. Balances of revenue and expenditures will be evaluated to determine application and availability of restricted and unrestricted cash reserves in the forecast as well as to meet Board directives regarding the reserve fund balance.

The forecast will assist the Board in determining the required current and future sewer service charge revenues to meet the Agency's financial and operational needs and objectives.

The Board may request periodic revisions to the forecast apart from the annual budget process to assist with decisions on the future direction of the Agency.

Return to TOC

SECTION: FINANCIAL – FINANCIAL PLANNING SUBJECT: Debt Financing and Management

DATE: 11/13/2018

## **POLICY**

The Agency may use long-term debt to finance capacity expansions and major capital replacement or rehabilitation subject to the requirements described below.

## **PROCEDURE**

This policy is designed to ensure that when the Agency issues debt, or borrows from private or governmental sources, that the debt load is managed prudently to maintain the Agency's sound fiscal condition and protect its credit quality.

#### I. General

The General Manager shall make recommendations to the Board of Commissioners concerning debt financing to fund the Agency's capital improvement program needs. Generally, recommendations shall be presented prior to the Agency's annual budget development process. Recommendations may be made at other times during the fiscal year to meet immediate Agency capital improvement needs and/or as relevant debt financings are made available to the Agency.

The Administrative Services Manager shall be responsible for managing, implementing, and overseeing debt management for the Agency. These duties shall include, but are not limited to, developing an effective debt management program, accounting and analyzing debt, and coordinating with the General Manager and department managers to determine and recommend the need for debt financing to meet the Agency's capital improvement needs. Agency staff shall ensure that the Agency's debt financing and issuances are consistent with the Agency's Joint Powers Agreement, and applicable federal and state financing and tax laws.

## II. Conditions for Debt Financing

Based on the recommendation of the General Manager, the Board shall approve borrowing or debt issuance to finance major capital projects. The Board shall consider long-term and short-term debt financing mechanisms as appropriate to meet the objectives of the Agency's capital needs. The Board shall limit debt to financing the costs of planning, design, engineering, regulatory permit requirements, land acquisition, environmental review, infrastructure, equipment, debt issuance, and any other project costs permitted by federal, state, and local laws for public agencies.

When making a determination to proceed with debt structuring and financing, the Board shall consider the Agency's financial condition, sources of funding for the annual

debt service payment, the Agency's ability to repay the debt without fiscal disruption to its effective operations and maintenance, economic trends affecting the Agency, financial benchmarks of other similar public agencies, and any existing and overlapping Agency debt. The Board shall consider the least costly financing mechanisms available, such as federal and state loan programs, when planning debt issuances and financing opportunities to take advantage of financial market conditions when possible.

The Board will approve debt financing for capitalized expenditures based on the economic value and useful life of an asset. The term or the maturity of the debt financing should be consistent with the useful life of the asset to be financed.

The Board shall consider and approve cost-effective credit enhancements such as debt insurance or letters of credit as mechanisms to improve credit ratings and guarantees for principal and interest payments.

The Board shall consider debt refunding to refinance outstanding debt that would reduce interest costs to the Agency, and/or remove any burdensome, restrictive, or irrelevant debt covenants. When approving debt refunding, the Board shall consider present value savings and other benefits to the Agency of restructuring the debt.

#### III. Investment of Debt Proceeds

Agency staff shall explicitly follow its *Investments policy* and any indenture documents or debt issuance agreements that are part of the debt financing program when investing debt proceeds.

# IV. Commingling of Debt Proceeds with Operating Funds

Debt proceeds shall not be commingled with operating funds.

#### V. Terms of Debt Issuance

- a) Authorized Debt the Agency is authorized to issue debt of any type or character available to California special districts.
- b) Terms of Debt debt maturity shall not exceed the useful life of the project; new debt shall be parity with existing debt; new debt shall be callable; debt may be refunded for savings or covenant removal; the Agency shall comply with all covenants, coverage tests and arbitrage requirements; amortization shall be level payments; and minimum debt is \$2M.
- c) Debt Coverage the Agency shall set minimum debt coverage at 125% to provide funding for pay-as-you-go recurring capital replacement.
- d) Debt Affordability the Agency shall benchmark its debt level with rating agency ratios, debt per capita, or with other local agencies to monitor and measure debt affordability.
- e) Debt Issuance Process transactions may be negotiated or competitively bid depending upon nature, use, understandability, and whether or not revenue-

- generating. The Agency shall select a financing team for its debt issuance needs.
- f) Prohibited Uses the Agency shall not use long-term debt to fund current operating costs; the Agency shall not refinance long-term debt with short-term debt due to exposure risk.

SECTION: FINANCIAL – FINANCIAL PLANNING SUBJECT: Risk Management and Insurance

DATE: 11/13/2018

# **POLICY**

The Agency shall maintain adequate insurance coverage for all of its insurance needs.

# **PROCEDURE**

The General Manager shall be responsible for managing all aspects of risks encountered by the Agency. As such, Agency staff shall coordinate and obtain appropriate levels of insurance coverage and implement other risk management and mitigating strategies and safety management approaches, as recommended by the California Sanitation Risk Management Authority (CSRMA). Acceptable risk management strategies need to be in compliance with applicable Federal and State laws and California Occupational Safety and Health Administration (CalOSHA) regulations. Insurance coverage and risk management strategies shall include, but are not limited to, liability, property, vehicles, Workers' Compensation, hazards, general safety, and loss control, and may consist of self-insurance programs when economical and costeffective.

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SECTION: FINANCIAL - FINANCIAL PLANNING

SUBJECT: Multi-Year Revenue Plan

DATE: 11/13/2018

# **POLICY**

CMSA shall develop and adopt a multi-year revenue plan to provide adequate funding for Agency operations, capital activities, and debt service, as well as maintaining Board designated reserve levels.

### **PROCEDURE**

- Beginning in the last year of the current Board adopted revenue plan, staff and the Board's Finance Committee will prepare a revenue plan development schedule that is designed so that a new revenue plan will be adopted prior to each JPA agency Board's consideration of their next fiscal year's draft budget.
- II. The Committee will consider using the following revenue plan guiding principles when developing the Agency's revenue plan alternatives.
  - Use a 5-year revenue planning period based on a 10-year rolling financial forecast
  - Balance the operating budget over the planning period
  - Maintain the operating reserve at 25% of the annual operating expenses
  - Ensure adequate funding for the capital improvement program during the planning period
  - Maintain a CIP reserve at an amount equal to the annual average value of the 10-year CIP
  - When feasible, use current revenues to fund CIP projects
  - Secure low-interest State Revolving Fund loans or issue debt to fund the balance of CIP projects
  - Target a CMSA average EDU rate increase of less than 4% per year
  - Keep the CMSA Board and JPA managers briefed on the Finance Committee's work
- III. Revenue plan alternatives, considering the above guiding principles or Board amended principles, will be developed by the Committee and presented to the Board for review and discussion, and ultimately, selection of a preferred alternative.
- IV. The Board adopted revenue plan will be communicated to the JPA member agencies, and incorporated into the Agency's upcoming fiscal year's budget and revised 10-year financial forecast

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SECTION: FINANCIAL – PROCUREMENT MANAGEMENT

SUBJECT: Signature Authority

DATE: 11/13/2018

# **POLICY**

This policy establishes signature authority for the Agency's procurement types listed below.

# **PROCEDURES**

This policy defines the signature approval levels within the Agency for the following types of procurement transactions:

- Purchase Orders
- Professional Services Agreements
- Maintenance Service Agreements and Contracts
- Equipment Procurement
- Materials & Supply Contracts
- Construction Contracts and Change Orders

#### I. Procurement Transactions

The General Manager shall approve procurement transactions equal to the amount specified by the California Uniform Construction Cost Accounting Commission (CUCCAC) for utilizing alternative bidding procedures for public project work. The table below shows each procurement transaction type with its governing CUCCAC Tier and the General Manager's signature authority for each transaction type. By ordinance, the Agency established bid cost thresholds and procedures in accordance with CUCCAC. Dollar amounts indicated are the CUCCAC limits as of the effective date of this policy, and will be adjusted over time as the CUCCAC limits are updated.

Transaction Type	CUCCAC Tier	General Manager Authority
Purchase Orders	Tier I	Less than \$60,000
Professional Services Agreements	Tier I	Less than \$60,000
Maintenance Service Contracts	Tier I	Less than \$60,000
Equipment Procurement	Tier I	Less than \$60,000
Material & Supply Contracts	Tier I	Less than \$60,000
Construction Contracts – Administrative	Tier I	Less than \$60,000
Construction Contracts – Informally Bid	Tier II	Between \$60,001 and \$200,000
Construction Contracts – Formally Bid	Tier III	Must be approved by CMSA Board

The Board of Commissioners shall approve procurement transactions greater than the current CUCCAC Tier amounts and shall approve all formally bid construction contracts. The General Manager shall establish the signature authority amount limits for Agency staff.

## II. Construction Change Order Limits

The construction change order (CCO) approval and signatory authority limits shall be as indicated in the table below:

Construction Amount Tier	General Manager Change Order Limits
1) Less Than \$300,000	
a) Change Order Limit	\$30,000
b) CCO limit if schedule impacted*	\$55,000
2) \$300,000 to \$1,000,000	
a) CCO limit	10% of construction contract amount
b) CCO limit if schedule impacted*	20% of construction contract amount
3) <u>Greater Than \$1,000,000</u>	
a) CCO limit	\$100,000
b) CCO limit if schedule impacted*	\$200,000
4) Emergency situations for any size	CMSA Board Chair approval if schedule
	impacted*, with subsequent ratification
project	by CMSA Board

<sup>\*</sup> As determined by CMSA staff.

## A. Reporting to the Board

The Board shall receive the following change order reports from the General Manager, as appropriate:

- 1) CCO aggregate amount if it approaches the specified limit;
- 2) Periodic change order and contract update; and
- 3) An economic analysis of the project costs at the construction contract's completion.

# III. Payment Transactions

The General Manager or designee shall approve payments up to the signature authority limits under Procurement Transactions, above. The General Manager shall approve all professional services and contractual progress payments regardless of amount after the contract(s) is approved and awarded.

Agency staff designated as responsible for specific line-items and/or categories in the adopted Agency's annual budget shall be responsible for reviewing single payments, which are related to the transactions covered by this policy, other Procurement Management policies and related procedures. These Agency staff shall approve single

payments up to the signature authority established by the General Manager. Approval shall be based on justifying and verifying that the related work, services, and/or materials and supplies are completed per the scope of the procurement document.

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SECTION: FINANCIAL – PROCUREMENT MANAGEMENT

SUBJECT: Contracting DATE: 11/13/2018

### **POLICY**

The Agency shall award construction, maintenance, and service contracts using appropriate and transparent procedures that comply with state laws and other Agency policies and procedures.

### **PROCEDURE**

This policy provides direction regarding how contracts and purchase orders should be awarded, processed, and approved to ensure integrity and consistency with established Agency policies and legal requirements. It also ensures that the most efficient, cost-effective, transparent, and accountable processes are used to select the most qualified service provider, and the most cost-effective materials and supplies vendor.

### I. Approval

This *Contracting* policy is used in conjunction with the *Signature Authority* policy.

### II. General Procedures and Processes

The General Manager shall establish the contracting procedures for the Agency. The Agency will standardize the contract development and engagement process to ensure selection of a responsive and responsible contractor and/or supplier to meet the purpose of this policy and that comply with relevant state laws.

These procedures will ensure proper contract awarding, and negotiated and sole source procurements, which include, but are not limited to, scope of work, quotations, proposals, bids, determining contractor and vendor qualifications, selecting proprietary sources, and emergency procurement.

The General Manager shall ensure that the contracting and purchase order processes are conducted in an efficient, transparent, and cost-effective manner. In doing so, effective and appropriate planning, timing, specifications, terms and conditions, pricing strategies, risk management, consolidating, and multiple quoting of contracts and purchases shall be considered. At the General Manager's discretion, the contract terms, conditions and forms may be reviewed by legal counsel before the contract is executed.

### III. Contracting and Procurement Processes

Agency staff shall follow contracting processes according to the Uniform Public Construction Cost Accounting Act (UPCCAA and California Public Contract Code 20800, et seq. for Sanitary Districts. Construction projects performed under contract shall be evaluated under the following bidding parameters.

- A. If the estimated cost of a project is less than the Tier I amount (refer to the *Signature Authority* policy) the General Manager will execute a Maintenance Contractor Service Agreement for the defined services.
- B. If the estimated cost of a project is within the Tier II amount, the project will be informally bid and the General Manager has the authority to execute a construction contract agreement.
- C. If the estimated cost of a project exceeds the Tier III amount, the project will be formally bid and the construction contract is subject to Board approval.

## **IV.** Professional Services Agreements

Agency staff shall follow the following parameters for evaluating professional services contracts. Selection of consultants for professional service agreements shall be based upon demonstrated experience and competence, and shall consider and evaluate the consultant's suggested approach, scope of work, proposed team members and availability, proposed fees, relevant experience, and other qualifications that are in the best interest of the Agency.

- A. For those services within the General Manager's signature authority, the General Manager has the discretion to negotiate an agreement directly with a consultant unless he/she determines that it is in the best interest of the Agency to conduct a formal request for proposal (RFP) process.
- B. For those services that exceed the General Manager's signature authority, the consultant shall be selected by an RFP process. The contract shall be awarded to the most qualified service provider by the CMSA board.

### V. Maintenance Service Contracts

Agency staff shall follow the following parameters for evaluating maintenance service contracts. Maintenance services are those activities defined by UPCCAA as, 1) routine, recurring and usual work for the preservation or protection of a publicly owned or operated facility for its intended purposes, 2) minor repainting, 3) landscape maintenance, or 4) work performed to keep, operate, and maintain publicly owned waste disposal systems.

- A. For those CUCCAC Tier I maintenance services within the General Manager's signatory authority, the General Manager has the discretion to negotiate an agreement directly with a service provider unless he/she determines that it is in the best interest of the Agency to conduct a formal request for quotes from multiple service providers.
- B. For those maintenance services that exceed the General Manager's signature authority, the service provider shall be selected by a request for quotes or bidding process. The maintenance contract shall be awarded by the CMSA Board to the service provider with the lowest cost that can provide the defined scope of services and meet CMSA's qualification requirements.

## VI. Equipment, Materials, and Supplies Procurement

Agency staff shall conduct the following processes for procuring equipment, materials and supplies.

- A. For the purchase of equipment, materials, and/or supplies whose costs are within the General Manager's signatory authority, such procurements shall be performed under the *Purchasing policy*.
- B. For the purchase of equipment, materials, and/or supplies that require the Board's approval, contracts or purchase orders shall be awarded to a vendor/supplier using the Agency's *Equipment Procurement* and *Material Procurement* policies, unless sole source procurement is justified and approved by the Board.

## VII. Cooperative Agreements

The General Manager shall determine when the Agency may enter into intergovernmental cooperative agreements to achieve economies of scale, promote Agency goals and objectives, or where it is financially advantageous.

Cooperative agreements may be used when the Agency can join contractually with other public agencies to meet mutual contractual needs. Such agreements may be bid or negotiated together with the cooperating agencies, or utilize new or existing contracts that allow for cooperative arrangements.

SECTION: Financial – Procurement Management

SUBJECT: Purchasing DATE: 11/13/2018

### **POLICY**

Procurement shall use appropriate non-contracted selection methods for purchasing activity as described below.

## **PROCUREMENT METHODS**

This policy is associated the *Signature Authority* policy. The process for complying with each method of procurement is explained below.

### I. Blanket Purchase Order

At the beginning of each fiscal year, finance staff shall establish and distribute a list of blanket purchase order (open account) numbers, based on requests by department managers, to be used for purchases less than \$500. Agency staff shall communicate to the vendor the specific assigned purchase order (PO) number when making purchases to ensure the number is on all vendor invoices and related documents.

In lieu of creating an open account, vendors may provide business credit cards to the Agency. With discretion, the General Manager shall approve applications for these types of cards after review by the Administrative Services Manager. The cards shall be used for purchases of less than \$500, and may only be used at the business where the card was issued. Department managers shall designate the employees who are allowed to use these types of cards when purchases need to be made. Until an invoice is received, the designated employees or finance staff shall keep a record of the purchase to provide supporting documentation for payment processing. These cards shall be governed by the Use of Card policies stated under the Purchase Card section below.

### II. Purchase Order

Agency staff shall use a purchase order for purchases for, 1) vendors with open accounts in amounts greater than or equal to \$500, or, 2) vendors without open accounts. All purchase orders shall be in writing using the appropriate form and documentation, have the appropriate approvals, and be submitted to the vendor for processing.

### III. Petty Cash

Agency staff may use petty cash for purchases of \$50 or less with vendors unable to establish an open account with the Agency and for necessary small infrequent expenses. These expenses may include supplies, parts, bridge tolls, attendance at offsite meetings and trainings, and multi-Agency meetings. All requests for petty cash disbursements shall be in writing using the appropriate form and approved by the department

manager. The General Manager may authorize a petty cash disbursement greater than \$50 if it is determined to be a prudent and appropriate payment or reimbursement method, and in the best interest of the Agency. Petty cash disbursements are made by the Administrative Assistant, Administrative Services Manager, or other employees designated by the General Manager.

## IV. State of California Purchase Card Program

The Board of Commissioners shall approve the number and type of management, supervisory, and administrative positions that are authorized to use purchase cards. The General Manager shall issue the cards to the specific employees and establish procedures for the appropriate use for making Agency-specific purchases when the above purchasing methods are impractical, inefficient, or not applicable. Monthly credit limits shall be set at \$3,000 for supervisors/designated staff and \$5,000 for department managers.

The Administrative Services Manager will serve as the administrator of the Agency's purchase cards, and will manage the Agency's account in accordance with the requirements of the Purchase Card Program and the Agency's policies, including, but not limited to, assigning purchase cards and purchase limits to authorized employee card holders, collecting and cancelling cards as needed, and reviewing purchase card transactions.

## A. <u>Use of Card</u>

The cardholder shall be the only person authorized to sign for purchased items and shall be the only person to authorize telephone and online transactions using the purchase card. Cardholders shall not give or authorize use of their card to another employee without the General Manager's approval. The employee who is assigned a purchase card is responsible for safeguarding the card as well as ensuring proper use of the card.

Department managers ensure that purchase card use in their respective departments is consistent with this policy and other related procedures. Each cardholder is responsible for keeping a record of the purchase to document purchases on the purchase card's account statement. An approved purchase order is required before using the purchase card for any transactions over \$500, except for employee-related travel where a "Pre-Authorization for Employee Travel" form is required. An approved travel preauthorization is required when using the purchase card for transactions related to training or travel on Agency business. Department managers are ultimately responsible for monitoring and approving all purchase card transactions within their department.

The Purchase Card shall not be used for the following purchases:

- 1) Professional services (labor costs)
- 2) Contract services
- 3) Capital/construction costs
- 4) Cash advances/personal use
- 5) Purchase of firearms, liquor, or cigarettes
- 6) Per diem meal allowance
- 7) Items for personal, non-Agency use

## B. <u>Lost or Stolen Card</u>

If an Agency purchase card is lost or stolen, the cardholder shall immediately report this to the Administrative Services Manager so that he/she can notify the Purchase Card Program.

## C. Misuse of the Card

Any misuse of the purchase card or violations of the Purchase Card Program guidelines or this policy, including, but not limited to, personal use of the purchase card, shall result in the loss of purchase card privileges. All cardholders are subject to disciplinary actions for misuse and misappropriations of Agency funds. Cardholders who use or allow use of the card for personal purposes shall reimburse the Agency for all incurred charges.

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## **ATTACHMENT A**

# Positions Authorized to Have Purchase Card

<u>Department</u>	<u>Position</u>	<u>Limit</u>
Administration	General Manager	\$10,000
Administration	Administrative Services Manager	\$5,000
Administration	Treatment Plant Manager	\$5,000
Administration	Health and Safety Manager	\$3,000
Technical Services	Technical Services Manager	\$5,000
Technical Services	Laboratory Director	\$3,000
Maintenance	Maintenance Supervisor	\$3,000
Maintenance	Assistant Maintenance Supervisor	\$3,000
Maintenance	Lead Mechanical Technician	\$3,000
Maintenance	E/I Technician (1)	\$3,000
Operations	Operations Supervisors (2)	\$3,000

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SECTION: FINANCIAL - ASSET MANAGEMENT

SUBJECT: General DATE: 11/13/2018

### **POLICY**

The Agency shall utilize an asset management system to properly manage its capital assets.

### **PROCEDURES**

#### I. General

The General Manager or designee shall ensure that Agency staff utilizes the established asset management systems and asset management procedures in an effective and efficient manner.

### II. Asset Plans

Agency staff shall develop asset plans for the Agency's infrastructure assets and equipment for the cost-effective operation, maintenance, and management of these assets. Asset plans shall be developed and maintained within the asset management system for all assets with an original cost equal to or greater than the capitalization threshold. An asset plan shall include asset age, service history, optimum preventive maintenance and rehabilitation/renewal during its lifecycle, standard maintenance/operations procedures, cost of operating, and other salient asset attributes. The asset plans shall be used as the basis to develop and implement specific operations and maintenance, and capital improvement plans, and to analyze long-term funding and prepare condition assessments.

For new assets that are procured or constructed, Agency staff shall retain all relevant asset plan data (i.e., cost, manufacturer, type, size, operations and maintenance manuals, and standard operating/maintenance procedures). Agency staff shall ensure that contractors and/or consulting engineers provide necessary asset management information prior to the filing of Notice of Completion and approving final payment to the contractor.

### III. Capital Asset Condition

Agency staff shall periodically assess the condition of capital assets. The assessment shall provide physical and financial information concerning the condition of assets, estimated remaining useful life, estimated operations and maintenance costs, and projected replacement costs (if applicable). The data shall be used when developing the Agency's Capital Improvement Plan, and other financial models for analyzing and determining future funding of capital assets.

## IV. Asset Inventory Control

The Administrative Services Manager, along with department managers, shall develop and implement effective procedures and systems to inventory and track the Agency's capitalized assets

### V. Facilities Maintenance

Agency staff shall perform effective planning and maintenance of capital assets, which shall include preventive and corrective maintenance and repair of facilities and infrastructure to protect the Agency's capital investments and minimize future maintenance and replacement costs.

## VI. Materials Management

Agency staff shall maintain inventories of parts, materials, and supplies to effectively meet its maintenance and repair needs. The Agency will develop and implement inventory management procedures. Procurement of parts and supplies that are placed into inventory shall conform to the *Purchasing Management* and *Expenditure Management* policies.

## VII. Disposal of Surplus Assets

Agency staff shall recommend to the General Manager the disposal of assets when they have exceeded their service life, are obsolete, where the value of replacement is less than rehabilitation costs, and/or they no longer serve the Agency's operational needs. The General Manager shall approve disposal of a surplus asset valued at \$7,500 or less. The Board shall approve disposal for a surplus asset valued at greater than \$7,500.

SECTION: FINANCIAL – ASSET MANAGEMENT

SUBJECT: Assets Accounting

DATE: 11/13/2018

## **POLICY**

All capital assets of the Agency shall be accounted for following *Generally Accepted Accounting Principles* (GAAP).

### **PROCEDURE**

### I. General

The General Manager and Administrative Services Manager shall ensure that capital assets are appropriately accounted for by funding source and asset category and that appropriate procedures are developed and implemented to meet the requirements of this policy. Department managers and Agency staff shall ensure proper budgeting and purchasing guidelines are followed for capital assets, and that these assets are adequately controlled, secured, and used for appropriate Agency purposes.

### II. Capitalization Threshold

For financial accounting and reporting purposes, the capitalization threshold shall be \$5,000 or higher for each asset with an expected life of at least five years following the date of acquisition.

### III. Assets

Agency staff shall account and report all assets with an original cost equal to or greater than the capitalization threshold. Such assets include those newly constructed, installed, or acquired items or significant additions, improvements, or replacements to existing assets which would significantly prolong the asset's useful life. All costs associated with purchase, design, planning, permitting, construction, installation, and acquisition shall be considered including, but not limited to, direct labor, materials and supplies, design, engineering, other professional fees, contractor charges, legal fees, site preparation, installation, associated overhead and administrative costs, taxes, freight and transportation, applicable CMSA staff time, and other expenditures and charges directly attributable to asset acquisition. For assets acquired through debt financing methods, expenses associated with costs of issuance and capitalized interest shall be considered. Capital assets donated to the Agency shall be capitalized at their estimated fair market value plus any associated costs, as described above, at the date of receipt.

Expenditures related to routine repairs that maintain the existing condition of the asset or restores it to normal operating efficiency shall not be capitalized, regardless of the amount, and shall be recorded as repair and maintenance expenses in that fiscal year.