CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY



CMCMUA USER CHARGE SYSTEM RATE SETTING REPORT

WASTEWATER MANAGEMENT PROGRAM USER CHARGES

EFFECTIVE JANUARY 1, 2021 (PROPOSED)

CMCMUA USER CHARGE SYSTEM RATE SETTING REPORT

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I. Introduction

The primary purpose of this Rate Setting Report is to present information to Participants of the Cape May County Municipal Utilities Authority's (hereinafter referred to as Authority or CMCMUA) Wastewater Management Program and the general public regarding the user charges which are proposed to go into effect commencing on January 1, 2021, for Fiscal Year 2021 (i.e. calendar year 2021).

The charges for wastewater conveyance and treatment services in Ocean City will be billed to New Jersey American Water which provides local sewage collection service within the City of Ocean City. In turn, New Jersey American Water will pass these costs onto the individual users of the system, along with New Jersey American Water's own cost for the operation of the local sewage collection system.

The charges for wastewater conveyance and treatment services in the City of Cape May, Borough of West Cape May, Borough of Cape May Point, Borough of Stone Harbor, City of Sea Isle City, Borough of Avalon, Township of Middle (including areas in Cape May Court House, Mayville, Burleigh, Rio Grande, Avalon Manor, Stone Harbor Manor/Blvd. and Harbor Bay Center), City of North Wildwood, City of Wildwood, Borough of Wildwood Crest, Borough of West Wildwood, and the Shawcrest Area of the Township of Lower, will be billed by the CMCMUA directly to each Participant municipality or local sewerage agency, as appropriate. In turn, each Participant will pass the cost for regional service on to the individual users of the system, along with the Participant's own costs for the operation of the local sewage collection system.

The County of Cape May will be billed for the sewage received from the County Complex at Crest Haven. Likewise, the New Jersey Turnpike Authority will be billed for the sewage received from the Garden State Parkway's Ocean View Service Area and Swainton Maintenance Yard and Avalon State Police Barracks.

The CMCMUA has, historically, not received any high strength waste from its Participants, and the proposed Fiscal Year 2021 Budget does not anticipate receiving any additional revenue from such waste. However, in order to accommodate the receipt of any high strength wastes from any sources within any of the Service Regions, as in

past years, this Report also proposes rates for a surcharge on high strength wastes for Fiscal Year 2021.

Due to damages incurred by a fire in one of the two reactors at the County-Wide Sludge Composting Facility in November 2015, the County-Wide Sludge Composting Facility is not currently in operation and will remain so for the foreseeable future.

In addition, rates are proposed for the receipt and treatment of septage and landfill leachate at the Seven Mile Beach/Middle Regional Wastewater Treatment Facility during Fiscal Year 2021.

Rates are herein proposed for the conveyance and disposal of the treated effluent from the Lower Township Municipal Utilities Authority's Wastewater Treatment Facility. This rate has been calculated in accordance with the Service Agreement between the Authority and Lower Township Municipal Utilities Authority (LTMUA).

II. Background

Created by resolution of the Board of Chosen Freeholders of Cape May County in 1972, the Cape May County Municipal Utilities Authority ("CMCMUA" or the "Authority") was formed specifically for the purposes of planning, designing and implementing wastewater and solid waste management programs for the improvement, preservation, and protection of the natural and socio-economic environments of Cape May County.

A. Regional Service Areas

The CMCMUA, on November 16, 1977, officially adopted the "County-Wide Selected Plan", which established regional wastewater planning areas throughout Cape May County. This plan has been approved by the United States Environmental Protection Agency (USEPA) and New Jersey Department of Environmental Protection (NJDEP). The four (4) Regional Planning Areas delineated by this Selected Plan, for which facilities have been provided during the initial planning phase, are: the Ocean City, Cape May, Seven Mile Beach/Middle and Wildwood/Lower Service Regions. The general area of each region has been identified geographically, as shown in Figure 1, while Figure 2 lists the Participants within each Service Region currently serviced by the Regional Wastewater System. The Service Regions delineated in Figure 1 represent the study areas which were evaluated during the facilities planning process. Therefore, it should be recognized that large portions of the study areas, particularly on the mainland, are not slated to receive regional wastewater treatment services.

Wastewater collection, transmission, treatment and disposal facilities have been separately provided for in each of the four (4) Service Areas.

All Service Areas are currently operational. Management and administration of these regional facilities are centralized under the coordinated control of the CMCMUA. Within each Service Area, or Region, staffing is provided as necessary to operate and maintain the Wastewater Treatment Facilities. In addition, a centralized Sludge Composting Facility / Sludge Transfer Facility, located adjacent to the Seven Mile Beach/Middle Region Wastewater Treatment Facility, receives the sludge which is generated at the four (4) Regional Wastewater Treatment Plants. Descriptions of the CMCMUA's Wastewater and Sludge Treatment Facilities are briefly presented below:

Figure 1

CMCMUA User Charge System

Location of Participants by Region

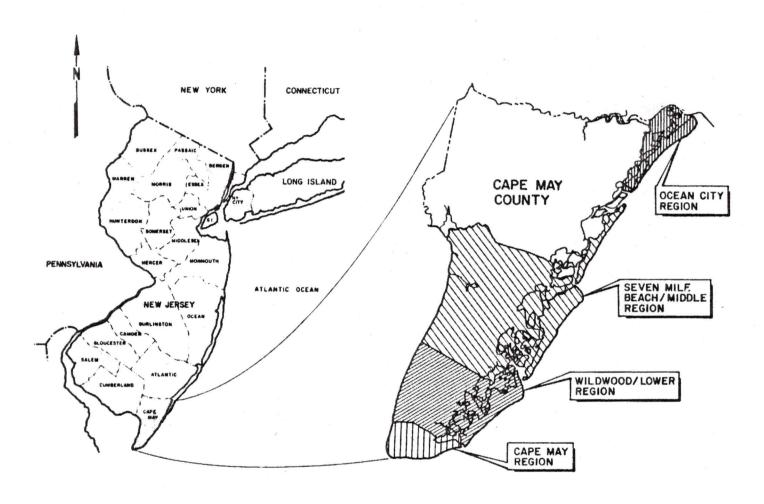


Figure 2 CMCMUA USER CHARGE SYSTEM LIST OF PARTICIPANTS BY REGION

Region	Participant
Ocean City	- Ocean City - New Jersey-American Water Company
Cape May	- West Cape May - Cape May Point
	- Cape May City (Includes the U.S. Coast Guard Base)
Seven Mile Beach/Middle	- Stone Harbor - Sea Isle City - Avalon - Cape May County (Crest Haven Complex)
	 - Middle Township - (Cape May Court House) - Middle Township - (Avalon Manor) - Middle Township - (Stone Harbor Manor/Stone Harbor Blvd.) - Middle Township - (Court House South) - Middle Township - (Harbor Bay Center)
	- New Jersey Turnpike Authority (Ocean View Service Area/Swainton Maintenance Yard and Avalon State Police Barracks)

- Wildwood
- Wildwood Crest - West Wildwood
- North Wildwood
- Middle Township (Rio Grande)- Lower Township Municipal Utilities Authority (Shawcrest)

1. Ocean City Region

A 6.3 million gallons per day (MGD) capacity Secondary Wastewater Treatment Facility for Ocean City has been in operation since February 1982. The facility was re-rated at 7.3 MGD by the NJDEP in the summer of 1994. Effective with the reissuance of the NJPDES permit renewal on April 1, 2001, the facility was again rerated by the NJDEP at 8.24 MGD. Transmission facilities consist of four (4) regional pumping stations and approximately 52,000 lineal feet of force mains. These Transmission Facilities terminate at the Regional Wastewater Treatment Facility located at the western end of 45th Street. Treated effluent is discharged through an outfall and diffuser system which extends approximately 6,000 lineal feet from the shoreline into the Atlantic Ocean, east of the treatment facility site.

2. Cape May Region

A 3.0 MGD capacity Secondary Wastewater Treatment Facility, located at the site of the former Cape May City Treatment Plant, began operation in February, 1984. Regional transmission facilities consist of three (3) pumping stations and approximately 20,000 lineal feet of force mains. The treated effluent is conveyed by force main to the Authority's Effluent Disposal Facility adjunct to the Lower Township Municipal Utilities Authority's Wastewater Treatment Facility, where it is combined with the effluent from the Lower Township Municipal Utilities Authority's Wastewater Treatment Facility and repumped to the effluent pumping station at the Wildwood/Lower Regional Wastewater Treatment Facility. The combined effluent from all three treatment plants is discharged into the Atlantic Ocean via the Wildwood/Lower Regional Ocean Outfall and diffuser system.

3. Seven Mile Beach/Middle Region

A 7.67 MGD capacity Secondary Wastewater Treatment Facility, located near the County Complex at Crest Haven in Middle Township, began operation in August, 1987. Transmission facilities include ten (10) pumping stations and approximately 84,000 lineal feet of force main pipelines. Treated effluent is discharged into the Atlantic Ocean through an outfall and diffuser system consisting of 30,000 lineal feet of land-based pipeline and 5,200 lineal feet of marine outfall line.

In addition, facilities have been provided at the Seven Mile Beach/Middle Regional Wastewater Treatment Facility to receive and treat all of the septage waste, leachates and liquid sludges generated in Cape May County.

4. Wildwood/Lower Region

A 14.2 MGD capacity Secondary Wastewater Treatment Facility located on Route 47 east of Rio Grande, began operation in April, 1988. Transmission facilities include seven (7) pumping stations and approximately 52,900 lineal feet of force mains. Effluent is discharged into the Atlantic Ocean through an ocean outfall and diffuser system.

The Wildwood/Lower's effluent disposal system also conveys the treated effluent from the Cape May Region and the Lower Township Municipal Utilities Authority Wastewater Treatment Facilities for discharge through the common ocean outfall and diffuser system into the Atlantic Ocean.

5. County-Wide Sludge Composting Facility / Sludge Transfer Facility

A centralized Sludge Composting Facility utilizing an in-vessel mechanical composting process followed by aerated windrows to stabilize sludges generated at the various Regional Wastewater Treatment Facilities is located adjacent to the Seven Mile Beach/Middle Treatment Plant. The resulting stabilized product, known as "CAPEORGANIC", is marketed for use as a specialty fertilizer.

The County-Wide Sludge Composting Facility was initially placed in operation in late 1985. Due to damages incurred by a fire in one of the two reactors at the County-Wide Sludge Composting Facility in November 2015, the facility is not currently in operation and the Authority is evaluating its long term sludge management options.

Prior to the fire, the County-Wide Sludge Composting Facility had a capacity to handle 140 dry tons per week of sewage sludge from the CMCMUA's regional facilities. If the Authority should decide to recommence composting operations in the unaffected reactor the facility would have a capacity of 40 dry tons per week of sewage sludge which provides for excess processing capacity during the non-peak months.

Currently, the sewage sludges generated by the Authority are transported by the Authority to the Atlantic County Utilities Authority at a rate of 50 dry tons per week during non-peak months and 84 dry tons per week during peak months. During peak months, the Authority currently relies upon a contract with an outside contractor to transport and dispose approximately 56 dry tons per week of excess sewage sludge generated by its facilities.

III. Factors Affecting User Charge System

The terms of executed service agreements and bond covenants, as well as regulatory requirements and grant conditions, affect a user charge system. A discussion of each of these factors as they affect the CMCMUA user charge system is presented in the following subsections.

A. Service Agreement

A Service Agreement with the CMCMUA was entered into by Participant Cities, Boroughs, Townships, Sewerage Districts, and the New Jersey American Water (herein collectively referred to as "Participants") in order to identify applicable responsibilities and/or procedures regarding items such as:

- 1. The construction and operation of the Regional System
- 2. Connection to the Regional System
- 3. Charges and establishment of rates by the CMCMUA, and payments by Participants
- 4. Meters, records and local operations
- Payment for abandoned Wastewater Treatment Facilities and their demolition

With respect to charges for wastewater treatment and disposal under Item 3, Section 401 of the Service Agreement states that the sum of annual charges to Participants "shall at all times be sufficient to pay or provide for the expenses of operation, repair and maintenance of the Regional System, including (without limitation of the foregoing) insurance, renewals and replacements, and the cost of all extensions and alterations of the Regional System not otherwise provided for, the principal of and interest on any and all bonds or other obligations of the Authority as the same become due, and to provide for any deficits of the Authority resulting from failure to receive sums payable to the Authority by any Participant or any other person, partnership, firm or corporation, or from any other cause, and to provide and maintain such reserves or sinking funds for any of the foregoing proposes as may be required by the terms of any contract or other obligation of the Authority."

In addition, Section 402 of the Service Agreement states that the annual charge "shall be computed and established by the Authority on the basis of the quantity, quality and other characteristics of the sewage so delivered as shown by the records of the Authority, at the rate or rates prescribed by the Authority in accordance with this Article ..."

B. CMCMUA Bond Covenants

Bond covenants associated with the CMCMUA's issuance of revenue bonds used to finance the construction of the Authority's regional wastewater facilities also affect the user charge system, as each of the following items are addressed: obligation for and payment of bonds, establishment and application of reserve funds, rate stabilization funds, investment of funds, the rate covenant, annual budget responsibilities, audits, insurance and arbitrage.

The CMCMUA user charge system's debt service for construction of facilities, beginning with the Ocean City Region, was set forth by the 1979 bond covenant, as contained in the "Official Statement Relating to \$17,000,000 CMCMUA County Agreement Sewer Revenue Bonds, Series 1979." These revenue bonds were structured to recover construction costs and the portion of the project development costs (i.e., regional planning, design and financing costs) attributable to these projects.

Similarly, additional financing for the Cape May Region, County-Wide Sludge Composting Facility, Seven Mile Beach/Middle Region, and Wildwood/Lower Region (with the exception of the Cape May Region/Lower Township Effluent Disposal System) was obtained through the issuance of additional Sewer Revenue Bonds.

Each series of sewer revenue bonds initially issued by the CMCMUA for the construction of the Authority's regional wastewater facilities was subsequently refunded by the Authority in order to take advantage of more favorable bond market conditions (i.e. lower interest rates).

In May 1999, through a competitive bidding process, the Authority sold its option to recall up to \$85,195,000 of the then currently outstanding Series 1992-A Sewer Revenue Refunding Bonds and to reissue/resell these bonds should lower interest rates

become available at some point in the future. In return for surrendering the Authority's right to recall the bonds for a two-year period, between the Fall of 2002 and the Fall of 2005, the Authority received an upfront payment of \$3,830,000 from Lehman Brothers, Inc. In accordance with the terms of this Forward Bond Sale, in November 2002, the CMCMUA Series 1992-A Bonds were recalled and reissued as the Authority's Series 2002-A Sewer Revenue Refunding Bonds at the same rates and terms as the Series 1992A Bonds.

The Authority has invested the \$3.83 Million in proceeds from the above noted Forward Bond Sale and has utilized the interest income and a portion of the proceeds over a multi-year period to offset its User Charges to Participants as part of a Rate Stabilization strategy. In an additional effort to stabilize User Rates, in October 2002, the Authority approved the refunding of the Series 1992 and 1993-B Sewer Revenue Refunding Bonds through the issuance of the Series 2002-B and Series 2002-C Sewer Revenue Refunding Bonds. This refinancing scheme took advantage of low interest rates and restructured the schedule for debt service payments.

The Authority's currently outstanding sewer revenue bond issues are described in detail in the following documents:

Official Statement: The Cape May County Municipal Utilities Authority, Sewer Revenue Refunding Bonds, Series 2011; dated November 3, 2011. These bonds retired the then-outstanding Sewer Revenue Refunding Bonds, Series, 2002-C, at a significant savings in interest costs.

Financing for portions of the CMCMUA's regional conveyance and treatment system was also provided through low interest loans obtained from the New Jersey Department of Environmental Protection acting on behalf of the State of New Jersey, and the New Jersey Wastewater Treatment Trust. The Cape May Region/Lower Township Effluent Disposal System was financed through this low interest loan program. Agreements setting forth the terms for this loan were finalized and executed in October, 1987.

During 1994, the New Jersey Wastewater Treatment Trust issued refunding bonds for the interest bearing loans. This refinancing provided significant short term savings during Fiscal Years 1994 and 1995 with stable annual debt payments thereafter.

Similarly, the Court House South Project, which consisted of the construction of two (2) pump stations and connecting force mains to extend wastewater treatment services to the Burleigh and Mayville sections of Middle Township, was also funded through the NJDEP/NJ Wastewater Treatment Trust Loan Program. The interest bearing portion of this loan was refunded by the New Jersey Wastewater Treatment Trust in May of 2004.

In 2010, the Authority obtained low (2010 (A) Series) and (2010 (B) Series) interest loans from the New Jersey Environmental Infrastructure Trust (NJEIT) Loan Program. The proceeds from these loans financed the refurbishment of the Authority's force main in West Wildwood and other various projects.

Also, in 2010, the Authority obtained additional low interest and zero interest loans from the NJEIT (2010 (C) Series) for refurbishment of the force mains along Avalon Boulevard and other projects.

In 2012, the Authority obtained low (2012 (A-1) Series) and zero (2012 (A-2) Series) interest loans from the NJEIT Loan Program. The proceeds from these loans financed the purchase of replacement emergency generators, pumps, valving, control systems, property improvements, and heavy equipment.

In 2016, the Authority obtained a low (2016A) interest loan from the NJEIT Loan Program. The proceeds from this loan financed the construction of bypass pumping around the Authority's pumping stations for emergency pumping situations and for maintenance purposes.

C. Regulatory Requirements

All requirements of the USEPA and the NJDEP imposed as a result of grant conditions associated with the receipt of Federal and State grant funds for the construction of the CMCMUA's Regional Wastewater Program have been considered in design of the CMCMUA user charge system, including the adoption of a system of charges which ensures that each user (or class of users) pays its proportionate share of the Regional Facilities' construction, operation, maintenance and replacement costs. Proportionality encompasses such user characteristics as volume, strength and rate of flow. The concept of proportionality also includes all debt and administrative costs incurred by the CMCMUA as a result of the Cape May County regional planning, design and construction process. Additional regulatory requirements have been met with regards to potential customers subject to high strength wastewater surcharges and specific service charges.

IV. The Regional Rate Setting Concept

In accordance with the requirements of N.J.S.A. 40:14B-22 and the terms of the Service Agreement with its Participants, the CMCMUA user charges will be uniform with respect to wastewater conveyance, treatment and disposal services.

The CMCMUA user charge system provides a rate structure and a methodology through which the actual rates can be adjusted periodically to ensure continued coverage of all wastewater, conveyance, treatment and disposal costs by revenue generated throughout the four (4) Regional Systems as each system or system extension is placed into operation.

It should be noted that the user charge system developed in this Report only addresses direct CMCMUA charges to the Participants. These projected annual charges, therefore, do not include any administrative, billing, or collection costs which will be incurred and passed along by the local Participants, as they distribute the cost for the Authority's regional wastewater conveyance and treatment services along with their own charges for the operation and maintenance of their local collection systems, to the individual customers receiving local sewage service.

Section V. Methodology for User Charge Cost Determinations

V. Methodology for User Charge Cost Determinations

Costs to be recovered from Participants through user charges include: debt service, operation, maintenance, replacement, and CMCMUA administrative cost. Each of these cost items is discussed in the following paragraphs.

The CMCMUA debt service costs are composed of several annual cost components. The major cost item is the debt service payments made on bonds issued for facilities' construction and refurbishing. The sale of these bonds provided the local share of the total capital requirement for planning, design, construction, and project financing activities. The term "local share" refers to the balance remaining after all Federal and State grants have been applied to the total capital cost.

Annual operation and maintenance (O & M) cost attributable to the conveyance systems, treatment facilities, solids handling facilities and effluent disposal systems maintained by the CMCMUA have been estimated for each Region. Upon examination, it has been found that many of these costs are essentially fixed in nature, in that they are not dependent on the total annual flow transmitted to the treatment plant. Examples of such costs include most of the wages and salaries of the permanent (i.e., year round) employees, heating costs, and general upkeep of the facility sites. These costs have been referred to as fixed O & M costs. The Authority's annual debt service obligations also represent a fixed cost.

Other costs, which vary with the actual volume of wastewater transported and treated, include electrical costs for pumping and aeration, chemical costs for flocculation and disinfection, and for various sludge handling, treatment and disposal costs. These costs have been referred to as variable O & M costs.

USEPA regulations require that the Grantee establish a provision for replacing large capital items whose service life falls short of the life expectancy of the treatment plant itself. An annual contribution to a replacement fund has been established to meet this requirement.

Annual costs associated with administration of the CMCMUA Regional Wastewater Treatment System have been incorporated into the rate projections.

The CMCMUA user charge rate structure consists of three (3) basic types of charges: A) specific service charges; B) high strength surcharges and; C) charges to Participants. Each of these charges is described as follows:

A. Specific Service Charges

These charges recover the costs which benefit a specific customer or class of customers (e.g. septage haulers). These specific services are charged directly to the customer(s) receiving the service in proportion to the estimated costs of providing these services.

For septage disposal, the projected service charge consists of the actual cost to treat the Biochemical Oxygen Demand (BOD) and Suspended Solids (SS) concentrations contained in the septage, based on sample test data acquired since 1982. To conform with the NJDEP's practice of categorizing septage tank pumpage as "sludge", the CMCMUA will apply the same charge for domestic septage, approved septage sludge, or raw wastewater originating from outside the regional sewerage system area in Cape May County. Likewise, specific service charges for landfill leachate disposal have also been calculated.

For the conveyance and disposal of the effluent from the LTMUA's Wastewater Treatment Facility, the Specific Service Charge is calculated in accordance with the existing Service Agreement between the two Authorities, utilizing the actual debt service and estimated operating and maintenance costs attributable to the Effluent Disposal System.

B. <u>High-Strength Surcharges</u>

High-strength surcharges, also referred to as specific surcharges, recover the costs for treatment of high-strength wastewaters. High-strength wastewaters are defined as discharges whose polluting characteristics; in terms of BOD and SS are greater than those associated with domestic wastewater from residential customers. The

concentration limits, beyond which surcharges will be assessed, have been set at 350 milligrams per liter (mg/l) BOD, and 300 milligrams per liter (mg/l) SS, as per the Service Agreement. No income revenue from high-strength surcharges is envisioned at this time and, therefore, no costs and/or incomes have been included in the projected User Rates.

C. Charges to Participants

The annual charge per Participant receiving wastewater treatment services recovers all costs for debt service, operations, maintenance and equipment replacement costs, and administrative services remaining after the collection of specific service charges, surcharges for high-strength wastes, grants, interest income and other revenues. Allocation of these costs among the Participants is based upon the projected volume and rate of flow from each Participant, expressed as a **percentage of the total flow** from all Participants. The costs which are fixed in nature (debt service plus fixed O&M costs) are allocated on the basis of the projected summer flow from each Participant. This methodology is used in an attempt to equitably distribute the fixed costs associated with the additional conveyance and treatment capacity necessitated by the increased flow rates resulting from the seasonal increase in population during the summer months in Cape May County.

The projected Fiscal Year 2021 annual charges per Participant developed herein do not include the recovery of any costs for wastewater collection and/or treatment services beyond the responsibility of the CMCMUA.

Section VI. Methodology For Determination Of Projected Annual Charges By Participants

VI. Methodology for Determination of Projected Annual Charges by Participant

In order to determine the annual charges projected for each Participant, estimates for summer and non-summer flow rates were developed from actual CMCMUA flow measurements from each of the four Regional Systems. As discussed previously, fixed charges (debt service plus fixed operating costs) were allocated based upon a proportioning of the total summer flow received from all Participants receiving regional sewerage service. Total summer flow is represented by the total flow received in the 90-day period from mid-June through mid-September.

The estimated "total summer flows" were tabulated with each Participant's contribution expressed as a percentage of the total of all of the "total summer flows" to be received from all Participant service areas during the Fiscal Year. The projected annual fixed charge for each Participant receiving service was then calculated by multiplying each Participant's percentage of the "total summer flow" by the total fixed costs to be recovered.

The determination of the projected annual charge to each Participant for the variable (or flow related) portion of the cost was based upon each Participant's percentage contribution to the total annual flow projected to be received from all Participants.

The total annual user charge, which will be billed to each Participant receiving service from the CMCMUA within any given fiscal year, combines the fixed and variable components of the user charge as described above. Table 1, contained in Section VII of this Report, presents the total annual user charge for each Participant projected to receive Regional wastewater conveyance, treatment, and disposal service during Fiscal Year 2021.

Section VII. Basis For Proposed Fiscal Year 202 User Charges

VII. Basis for Proposed Fiscal Year 2021 User Charges

As noted earlier, the purpose of this Report is to present the proposed rates for wastewater conveyance, treatment, and disposal services in the CMCMUA's Ocean City, Cape May, Seven Mile Beach/Middle, and Wildwood/Lower Service Regions which will become effective for Fiscal Year 2021. A surcharge is also being proposed for the treatment of high-strength wastes at the Authority's treatment plants, and for the handling and treatment of septage and landfill leachate at these facilities during Fiscal Year 2021. In addition, a specific service charge for the Lower Township Municipal Utilities Authority's use of the Effluent Disposal System is proposed.

The rates adopted for Fiscal Year 2021, shall remain in effect until such time as the schedule of rates is proposed for further modification. Prior to any modification of the rates adopted by the CMCMUA for Fiscal Year 2021, the Authority will provide adequate public notice and conduct a public hearing for the purpose of receiving comments relative to any proposed modifications under consideration at that time.

Included within this section are the user charges proposed to go into effect in Fiscal Year 2021. They are presented in Table 1 of this section. Supplemental tables providing a further breakdown of the proposed user charges are also presented in this section of the Report. The Participants to be serviced in Fiscal Year 2021 will be billed in accordance with the executed Service Agreements.

The following factors were considered in the preparation of the projected user charges for Fiscal Year 2021:

Projected year 2021 flow rates for most Participants are based on actual wastewater flows as measured by the Authority during the previous six (6) year period (with the exception of extreme storm flows or known groundwater pumping events). Projected flows from the New Jersey Turnpike Authority's Service Area and the Swainton Maintenance Yard and Avalon State Police Barracks are based on flows from the site since the full service restaurant facility was closed.

- The actual flow from each Participant will be measured during calendar year 2021 and any adjustments to the fees collected from each Participant, based on these actual flow records, will be made as necessary after final audit of the Fiscal Year 2021 operating expenses.
- Data Entry and Review: Flow meter totalizer readings are read daily by facility staff and entered into the Authority's process database and reviewed by Authority supervisors. Monthly Data is tabulated and distributed to all municipal Participants.
- Billing Meter Certification: On three (3) separate occasions throughout the year, a qualified third party contractor reviews, calibrates, and certifies the operation of the Authority's billing flow meters.
- Meter Data and Estimates: On occasion, meter totalizer data cannot be obtained due to a malfunction or scheduled maintenance. When this occurs, notations are made on the corresponding monthly municipal flow report that is distributed to all Participants. Estimated flows are calculated during these periods using representative flow data which in the assessment of the Authority presents the most accurate estimate.
- O & M costs for the Regional Wastewater System and the proportioning of these costs into fixed or variable components were budgeted based upon actual experience in the four operating Service Regions.
- As presented in the Fiscal Year 2020 User Charges, all joint administrative costs are recorded in the Wastewater Management Program "Operations and Maintenance" expenditure category, with an associated "Management Fee" being charged to the Solid Waste Management Program for its proportionate share of joint administrative costs. The Operations & Maintenance Costs have increased 0.67% from Fiscal Year 2020. These increases are primarily attributable to increases in labor related costs.
- It is estimated that essentially all sewage sludge generated by the four (4) wastewater treatment facilities during calendar year 2021 will be processed at either the Atlantic County Utilities Authority or through a contract with a third party collection and disposal company.

- Allocation of projected costs to treatment parameters (i.e., flow, BOD and SS) are based upon actual past experience.
- For those funds not in long-term investments, projected interest income was estimated by the CMCMUA's Chief Financial Officer, based on an average 0.25% rate of return on investments. Total estimated interest income for Fiscal Year 2021 is \$100,000.
- All interest income anticipated for Fiscal Year 2021, including the interest income from the Wastewater Management Program's Construction Funds, will be used to offset debt service, operations and maintenance costs, and contribution to the Renewal and Replacement fund and is included in the above total.
- The specific service charge for the conveyance and disposal of the effluent from the LTMUA has been calculated in accordance with the existing Service Agreement between the LTMUA and CMCMUA utilizing the actual debt service and estimated operation and maintenance costs attributable to the CMCMUA's Effluent Disposal System. The proposed specific service charge for the LTMUA's use of the Effluent Disposal System in Fiscal year 2021 is in the amount of \$491,501.
- The projected volume of septage and landfill leachate for Fiscal Year 2021 is based on actual quantities received during the last several years.
- The quality of septage and leachate is based upon average values obtained from laboratory analyses for BOD and SS.
- The septage disposal charge is based upon an analysis of septage quality, the projected average cost to treat a pound of BOD, a pound of SS, and to handle 1,000 gallons of septage.
- No Revenues have been anticipated in this year's budget for the sale of compost product during calendar year 2021.
- Miscellaneous revenues in the amount of \$20,000 have been included in anticipation of insurance premium rebates and the sale of surplus equipment.

2021 are \$			

Section VIII. Future Projections Of User Charges

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CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY USER CHARGE SYSTEM – RATE SETTING REPORT – FISCAL YEAR 2021

TABLE 1 - USER CHARGES INCLUDING SPECIFIC SERVICE CHARGES

USER CHARGES BY PARTICIPANT:

		NOTES: (1) From TABLE 7 (2) From TABLE 6	(3) From TABLE 5	(4) From TABLE 4																			
TOTAL:	\$9,158,026	S3,069,165	\$464,232	\$235,015	\$1,571,723	\$3,613,754	\$3,521,853	\$196,478	\$913,095	\$864,553	879,987	\$93,761	\$453,028	\$7,136	\$2,411,560	\$7,633	\$3,664,519	\$3,522,482	\$433,865	\$3,629,241	\$181,381	\$35,680,928	
RGES: DOLLARS	\$1,278,900	\$458,632	\$80,630	\$34,727	\$190,075	\$432,894	\$497,580	\$36,821	\$191,568	\$189,080	\$12,439	\$13,932	\$84,589	8668	\$492,604	\$1,493	\$465,237	\$421,450	\$74,637	\$482,155	\$27,864	\$4,975,700	
VARIABLE CHARGES: PERCENT DOI	(1) 25.70%	9.22%	1.62%	0.70%	3.82%	8.70%	10.00%	0.74%	3.85%	3.80%	0.25%	0.28%	1.70%	0.02%		0.03%	9.35%	8.47%	1.50%	%69.6	0.56%	100.00%	
ES: DOLLARS	\$7,879,126	\$2,610,533	\$383,602	\$200,288	\$1,381,648	\$3,180,860	\$3,024,273	\$159,657	\$721,527	\$675,472	\$67,547	\$79,829	\$368,439	\$6,141	\$1,918,956	\$6,141	\$3,199,282	\$3,101,031	\$359,228	\$3,147,086	\$153,516	\$30,705,228	
FIXED CHARGES: PERCENT I	(1) 25.66%	8.50%	1.25%	0.65%	4.50%	10.36%	9.85%	0.52%	2.35%	2.20%	0.22%	0.26%	1.20%	0.05%		0.02%	10.42%	10.10%	1.17%	10.25%	0.50%	100.00%	
	OCEAN CITY	CITY OF CAPE MAY	WEST CAPE MAY	CAPE MAY POINT	STONE HARBOR	SEA ISLE CITY	AVALON	CREST HAVEN	RIO GRANDE	C. M. COURT HOUSE	AVALON MANOR	S. H. BOULEVARD	COURT HOUSE SOUTH	HARBOR BAY CENTER	MIDDLE TWP. TOTAL	NJ TURNPIKE AUTHORITY	WILDWOOD	WILDWOOD CREST	WEST WILDWOOD	NORTH WILDWOOD	SHAWCREST (LTMUA)	TOTALS (2):	

\$491,501	\$0.73 \$1.11 \$59.31 \$11.46
L.T.M.U.A EFFLUENT DISPOSAL (3):	HIGH STRENGTH SURCHARGES (4): HIGH STRENGTH B.O.D. (S/hb) HIGH STRENGTH S.S. (S/hb) SEPTAGE/SLUDGE/RAW WASTE DISPOSAL (\$/1000 gallons) (3): LANDFILL LEACHATE DISPOSAL (\$/1000 gallons) (3):

CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY USER CHARGE SYSTEM – RATE SETTING REPORT – FISCAL YEAR 2021

TABLE 2 -- OPERATING EXPENSE BUDGET BY FACILITY

Sum of 2021 Proposed		Process Type Fixed / Variable	43			
		Sy	Wastewater Treatment	Solids Handling	Effluent Disposal	Grand Total
Facility Name	Element Name	Fixed Variable	Fixed Variable	Fixed Variable	Fixed Variable	
Cape May Region	Benefits and Taxes		\$389,943			\$389,943
	Chemicals		\$22,000			\$117,000
	Equipment Finels Oils and Greases	\$10,000	\$32,930	000,1\$	000,18	\$48,950
	Materials		\$500		3	8500
	Outside Services	\$10,000	\$28,200	\$500 \$64,500	\$500	\$103,700
	Rents and Leases	\$13,000	\$1,500			\$14,500
	Repair Parts Salaries and Wages	\$12,900	\$35,700	\$3,000	\$3,000	\$54,600
	Supplies	\$2,100				\$20,300
	Travel		\$500			8200
Ocean City Region	Benefits and Taxes	\$2,000	\$5,000 \$155,000	0		\$222,000
north region	Chemicals	5	\$107,000	000 053	000 00£\$	\$457,000
	Equipment	\$10,500	\$51,250	\$2,500	\$1,100	\$65,350
	Fuels, Oils and Greases	\$10,000	\$48,100	\$1,000		859,100
	Materials	8	8	3	5	8
	Outside Services	\$14,600	\$50,500	\$40,000	\$250	\$105,350
	Rents and Leases	\$13,000	\$1,500			\$14,500
	Repair Parts	\$39,000		\$17,000	\$6,000	\$123,000
	Salaries and Wages	5000	\$1,086,500 \$28,000	0		\$1,114,500
	Supplies Travel	\$2,000	\$53,400			95/,400
	Utilities	\$5,000 \$125,000	\$2	0		\$428,000
Wildwood Lower Region	Benefits and Taxes		\$581,523			\$581,523
	Chemicals	300	\$20,000	\$100,000		\$500,000
	Equipment	\$21,500	\$50,300	\$18,000		899,800
	Fuels, Oils and Greases	\$31,000	\$73,500	\$15,000	\$1,000	\$120,500
	Materials	623 000	000 14		000	000 5113
	Rents and I eases	\$23,000	\$24,000	\$10,000	\$10,000	\$113,000
	Repair Parts	\$36.000	\$54 500	000 903	\$17.500	\$134,000
	Salaries and Wages		\$1 220 000 \$29 000			\$1.249.000
	Supplies	\$2,500		,	\$1,200	\$36,700
	Travel	8	\$500		14	8200
	Utilities	\$7,000 \$200,000		0	\$1,000	\$771,500
Seven Mile Middle Region	Benefits and Taxes		\$580,523			\$580,523
	Chemicals	80				\$370,000
	Equipment Fuels Oils and Greases	\$27,000	\$00,500	\$4,000	\$1,000	\$101,500
	Materials	\$250		000,1	,1,000	\$250
	Outside Services	\$31,000	\$68,500	\$2,500 \$25,000		\$127,000
	Rents and Leases	\$13,000	\$2,000			\$15,000
	Repair Parts	\$39,000	\$77,500	\$11,000	\$5,000	\$132,500
	Salaries and Wages	000 63	\$1,249,000	0		\$1,278,000
	Travel	\$2,000	\$38,000			340,000
	Utilities	\$12,000	\$2	0		\$762,000
Project Crew	Benefits and Taxes		\$423,924			\$423,924
	Equipment		\$38,250			\$38,250
	Fuels, Oils and Greases		\$17,500			\$17,500
	Outside Services	000 \$\$	000 23			612 000
	Rents and Leases	000,04	000:/9			89.000
	Repair Parts	\$10,000	\$12,200			\$22,200
	Salaries and Wages		\$940,000			\$940,000
	Supplies		\$26,400			\$26,400
	Cumes	_	000,00	_	_	\$70,000

Ponefite and Towas	120 654			_			1 137 063
	400,074						370,034
	\$22,000						\$22,000
	\$11,000						211.000
	\$50,000						\$50,000
	\$2,000			-			\$2,000
	\$142,500	\$1,000					\$143,500
	\$22,200						\$22,200
			\$144,635				\$144,635
			\$6,500				86,500
			\$14,500				\$14,500
			\$3,000				\$3,000
			\$49,500	\$1,541,000			\$1,590,500
			\$5,500				\$5,500
			\$47,500				\$47,500
			\$295,500	\$21,500			\$317,000
			\$8,950				88,950
			\$0				80
	\$1,200				383		\$1,200
	\$240,475			-			\$240,475
	\$4,000						\$4,000
	\$54,500						\$54,500
	\$83,500					1	\$83,500
	\$24,444						\$24,444
	\$361,773						\$361,773
	\$200						8200
	\$162,000						\$162,000
	\$249,000						\$249,000
	\$93,500						\$93,500
	\$11,000						\$11,000
	\$567,000						\$567,000
	\$3,300						\$3,300
	\$35,000						\$35,000
	\$3,100						83,100
	\$50,000						850,000
	\$5,530,475						\$5,530,475

	The second name of the second na
Total Fixed	\$18,070,297
Total Variable	\$5,350,000
Total	\$23,420,297
Total Conveyance	\$1,056,350
Total Wastewater Treatment	\$18,523,312
Total Solids Handling	\$2,753,585
Total Effluent Disposal	\$1,087,050

Cape May Total	\$1,807,143
Ocean City Total	\$2,956,278
Wildwood Total	\$3,621,023
seven Mile Total	\$3,534,373
ab Total	\$329,354
Project Crew Total	\$1,559,274
Sludge Transfer Total	\$2,138,085
Wastewater Admin Total	\$7,474,767
Fotal	\$23,420,297

CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY USER CHARGE SYSTEM -- RATE SETTING REPORT -- FISCAL YEAR 2021

TABLE 3 - DEBT SERVICE REQUIREMENTS

	NOTE (1) NJ Environmental Trust	Financing Dated 2/22/2010 NOTE (2) NJ Environmental Trust	Financing Dated 12/2/2010 NOTE (3) NJ Environmental Trust	Financing Dated 5/3/2012 NOTE (4) NJ Environmental Trust	Financing Dated 5/26/2016				
	ON	ON	NO	NO					
DOLLARS	80	\$28	80	80	80	80	\$28	80	\$28
TION LTMUA PORTION RCENT DOLLARS PERCENT (see calculation of percentages at bottom of page)	0.00%	0.07%	0.00%	0.00%	0.00%	0.00%			0.00%
LJ DOLLARS tion of percentages	\$13,013	\$40,556	\$558,699	\$48,914	\$44,751	\$177,171	\$883,104	8	\$883,104
ALLOCATION CMCMUA PORTION PERCENT (see calcula	100.00%	99.93%	100.00%	100.00%	100.00%	100.00%			100.00%
A) CI	\$13,013	\$40,584	\$558,699	\$48,914	\$44,751	\$177,171	\$883,132	80	\$883,132
INTEREST	\$1,187	\$11,110	\$116,586	\$8,154	\$4,193	\$20,671	\$161,901	08	\$161,901
PRINCIPAL	\$11,826	\$29,474	\$442,113	\$40,760	\$40,558	\$156,500	\$721,231	80	\$721,231
	2010(A) SERIES (1)	2010(B) SERIES (2)	2010(C) SERIES (2)	2012(A-1) SERIES (3)	2012(A-2) SERIES (3)	2016(A) SERIES (4)	SUBTOTAL	ABANDONED FACILITIES	TOTALS

Bond Issues 2010(B) include the cost of installing two 450 HP variable speed drives on the effluent pumps at the WW/L WTF, which is part of Subsystem 'C'. This part of the project represents \$32,000 / \$7,667,900 = 0.4% of the debt service.

LTMUA share of the use of Subsystem 'C' averages 15.8%
=15.8% X 0.4%: 0.07%

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CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY USER CHARGE SYSTEM -- RATE SETTING REPORT -- FISCAL YEAR 2021

TABLE 4 -- CALCULATION OF SPECIFIC COSTS

		NOTES:	(1) From Laboratory Data	(2) MG x mg/l x 8.34 lbs/gal	(3) Percent of construction cost	attributed to each component	(4) Total Debt + Project RR Contribution	- Use of Bond Reserve"	(5) From Table 2	
NTITY (2) S	(lbs)		7,778,981		328,930		57,046		8,164,956	
T ou	l) (sql)		7,778,981		357,953		104,584		8,241,518	
AGE ST	(mg/l) (mg/l)		205 205		3,700 3,400		550 300			
PROJECTED FLOW	(thousands of gallons)		4,549,910		11,600		22,800		4,584,310	
			WASTEWATER FROM USERS		SEPTAGE		LANDFILL LEACHATE		TOTALS	

SS	\$0 \$802,339 \$2,477,579 \$0	\$3,279,918	\$0 \$3,704,662 \$2,065,189 \$0 \$5,769,851	\$9,049,769
	0.00% 20.00% 75.00% 0.00%		0.00% 20.00% 75.00% 0.00%	
BOD	\$02,339 \$825,860 \$825,860	\$1,628,199	\$0 \$3,704,662 \$688,396 \$0 \$4,393,059	\$6,021,257
	0.00% 20.00% 25.00% 0.00%		0.00% 20.00% 25.00% 0.00%	-
VOLUME	\$3,812,366 \$2,407,017 \$0 \$4,989,635	\$11,209,018	\$1,056,350 \$11,113,987 \$1,087,050	\$24,466,405
•	100.00% 60.00% 0.00% 100.00%		,00.00% 60.00% 0.00% 100.00%	
TOTAL	\$3,812,366 \$4,011,694 \$3,303,438 \$4,989,635	\$16,117,132 (4)	\$1,056,350 \$18,523,312 \$2,753,585 \$1,087,050	\$39,537,429
	(3) 23.65% 24.89% 20.50% 30.96%	100.00%		
COSTS TO BE RECOVERED	DEBT SERVICE: (4) CONVEYANCE WASTEWATER TREATMENT SOLIDS HANDLING EFFLUENT DISPOSAL	FAL	OPERATING COSTS: (5) CONVEYANCE WASTEWATER TREATMENT SOLIDS HANDLING EFFLUENT DISPOSAL	ï.
COSTS	DEBT SI CON WAS SOL EFE	TOTAL	OPERAT CON WAS SOL EFFE	TOTALS:

\$5.34 per 1000 gallons 0.73 per lb BOD

COST PER 1000 GALLONS COST PER POUND OF BOD COST PER POUND OF SS

\$1.11 per lb SS

SPECIFIC-Tab 4

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CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY USER CHARGE SYSTEM -- RATE SETTING REPORT -- FISCAL YEAR 2021

TABLE 5 -- CALCULATION OF SPECIFIC SERVICE CHARGES

	NOTES: (1) From Table 4	(2) From Table 3 (3) Calculated per	Service Agreement		
COST PER 1000 GAL		\$5.34	\$22.54	\$31.43	\$59.31
UNIT		\$5.34	\$0.73	\$1.11	
UNITS PER 1000 GAL		1.00	30.86	28.36	FEE (\$/1000 GAL)
(1) CHARACTERISTICS		1,000 GALLONS	3,700 MG/L	3,400 MG/L	PROPOSED SEPTAGE DISPOSAL FEI
WASTEWATER TREATMENT PARAMETER	SEPTAGE:	VOLUME	BOD	SS	PROPOSED

LANDFILL LEACHATE:

\$5.34	\$3.35	\$2.77	\$11.46
\$5.34	\$0.73	\$1.11	
1.00	4.59	2.50	(\$/1000 GALLONS)
1,000 GALLONS	550 MG/L	300 MG/L	PROPOSED LEACHATE DISPOSAL FEE (\$/1000 GALLONS)
1,000	550	300	PROPOSED LEACH
VOLUME	BOD	SS	

LOWER TOWNSHIP M.U.A. EFFLUENT DISPOSAL CHARGE:

TOTAL	828	\$491,472	\$491,501
	DEBT SERVICE (2):	OPERATING COSTS (3):	TOTAL EFFLUENT DISPOSAL CHARGE:

REMOVAL-Tab 6

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CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY USER CHARGE SYSTEM – RATE SETTING REPORT – FISCAL YEAR 2021

TABLE 6 -- DETERMINATION OF TOTAL USER CHARGES

		NOTES: (1) From Table 2 (2) From Table 3	(3) From Table 5																
VARIABLE	85,350,000	08	374,500	85,724,500		0\$	\$448,800	\$100,000	840,000	08	\$150,000	08	08	810,000	08	08	\$748,800		84,975,700
FIXED	\$18,070,297	\$883,132	14,859,500	\$33,812,929		\$100,000	\$1,591,200	8500,000	\$260,000	08	850,000	\$491,501	\$105,000	\$10,000	08	80	\$3,107,701		\$30,705,228
TOTAL	\$23,420,297	\$883,132	\$15,234,000	\$39,537,429		\$100,000	\$2,040,000	8600,000	8300,000	80	\$200,000	L FEE(3): \$491,501	\$105,000	E REBATE, ETC \$20,000	JND: \$0	80	\$3,856,501		\$35,680,928
EXPENSES AND COSTS:	TOTAL OPERATING COSTS (1)	TOTAL DEBT SERVICE(2)	RENEWAL AND REPLACEMENT CONTRIBUTION	TOTAL EXPENSES AND COSTS	REVENUES AND INCOMES:	INTEREST ON INVESTMENTS AND DEPOSITS:	MANAGEMENT FEE	SEPTAGE DISPOSAL FEES:	LANDFILL LEACHATE DISPOSAL FEES:	COMPOST PRODUCT SALES:	PROCESSING OF "OUTSIDE" SLUDGE	LOWER TOWNSHIP M.U.A. EFFLUENT DISPOSAL FEE(3);	TOWER RENTAL INCOME	MISCELLANEOUS REVENUES (INSURANCE REB	WITHDRAWAL FROM RATE STABILIZATION FUND:	USE OF BOND RESERVE	TOTAL REVENUES AND INCOMES:	AMOUNT TO BE COLLECTED FROM USERS:	(EXPENSES LESS REVENUES)

CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY
USER CHARGE SYSTEM -- RATE SETTING REPORT -- FISCAL YEAR 2021

TABLE 7 -- ESTIMATED FLOWS (ON ANNUAL BASIS)

DAILY FLOWS:

	SUMMER TOTAL YEARLY	CAL YEARLY	TOTAL SUMMER FLOW (1):	R FLOW (1):	TOTAL NON-SUMMER FLOW:	MER FLOW:	TOTAL YEARLY FLOW (2):	(2):
	(Million Gall)	olis / Day)	o spilosalius ol	% of Total	(Thousands of Ganons)	% of Total	(Thousands of Ganons)	% of Total
			gallons	Flow	gallons	Flow	gallons	Flow
OCEAN CITY	4.642	3.204	417,780	25.66%	751,680	25.73%	1.169,460	25.70%
CITY OF CAPE MAY	1.538	1.149	138.420	%05.8	280 965	%696	419.385	9.22%
WEST CAPE MAY	0.226	0.202	20,340	1.25%	53,390	1.83%	73,730	1.62%
CAPE MAY POINT	0.118	0.087	10,620	0.65%	21,135	0.72%	31,755	0.70%
STONE HARBOR	0.814	0.476	73,260	4.50%	100,550	3.44%	173,810	3.82%
SEA ISLE CITY	1.874	1.085	168,661	10.36%	227,189	7.78%	395,850	8.70%
AVALON	1.782	1.247	160,358	9.85%	294,642	10.08%	455,000	10.00%
CREST HAVEN	0.094	0.092	8,466	0.52%	25,204	0.86%	33,670	0.74%
RIO GRANDE	0.425	0.480	38,258	2.35%	136,917	4.69%	175,175	3.85%
C. M. COURT HOUSE	0.398	0.474	35,816	2.20%	137,084	4.69%	172,900	3.80%
AVALON MANOR	0.040	0.031	3,582	0.22%	7,793	0.27%	11,375	0.25%
S. H. BOULEVARD	0.047	0.035	4,233	0.26%	8,507	0.29%	12,740	0.28%
COURT HOUSE SOUTH	0.217	0.212	19,536	1.20%	57,814	1.98%	77,350	1.70%
HARBOR BAY CENTER	0.004	0.002	326	0.02%	584	0.02%	910	0.02%
TOTAL MIDDLE TWP.	1.131	1.234	101,750	6.25%	348,700	11.93%	450,450	%06.6
NJ TURNPIKE AUTHORITY	0.004	0.004	326	0.02%	1,039	0.04%	1,365	0.03%
WILDWOOD	1.885	1.166	169,638	10.42%	255,787	8.75%	425,425	9.35%
WILDWOOD CREST	1.827	1.056	164,428	10.10%	220,957	7.56%	385,385	8.47%
WEST WILDWOOD	0.212	0.187	19,048	1.17%	49,202	1.68%	68,250	1.50%
NORTH WILDWOOD	1.854	1.208	166,870	10.25%	274,025	9.38%	440,895	%69.6
SHAWCREST (LTMUA)	0.090	0.070	8,140	0.50%	17,340	0.59%	25,480	0.56%
TOTALS	18.090	12.466	1,628,103	100%	2,921,807	100%	4,549,910	100.00%
NOTES:	All flows projected from past a (1) Used for Fixed Charges (2) Used for Variable Charges	All flows projected from past actu (1) Used for Fixed Charges (2) Used for Variable Charges	al data.					e ar

FLOW-Tab 7

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VIII. Future Projections of User Charges

Previously, during the public hearings on Proposed User Rates, the CMCMUA was asked to forecast user rates further into the future.

The following table shows the previously adopted 2018 through 2020 Budgeted Expenses and Revenues, the Fiscal Year 2021 Proposed Expenses and Revenues, and estimated expenses and revenues through 2024. The following assumptions were made:

- Debt service includes all principal and interest due under the various bond issues.
- The Renewal and Replacement Contribution will be escalated in future years to provide adequate funds for the replacement of equipment and infrastructure beyond it designed useful life.
- Operational, Maintenance and Administration Costs have been escalated at the rate of 2.50% per year from 2021 through 2024. Revenues from Septage and Leachate Disposal are projected to be \$900,000 between 2021 and 2024.
- Interest Revenues remain constant. Short-term interest rates have been estimated at 0.25% for the period between 2021 and 2024. Anticipated income from fixed rate long-term investments have also been included.
- It should be pointed out that the projected increases are based upon an estimated total amount to be collected from all Participants. The actual User Rate billed to each individual Participant in each year will be based upon actual recorded sewage flow rates.

CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY USER CHARGE SYSTEM -- RATE SETTING REPORT -- FISCAL YEAR 2021

COMPARISON - 2018 through 2024 USER RATES

2018 2019 BUDGET BUDGET \$3,890,441 \$3,877,399 \$9,417 (\$13,042) \$18,479,125 \$18,882,148 \$289,850 \$403,023
1.59% 2.18% \$1,391,000 \$1,460,000 \$11,867,000 \$12,395,000
\$13,258,000 \$13,855,000 \$35,627,566 \$36,614,547
\$94,938 \$5,950
\$880,000 \$0 \$470,145 \$0 \$100,000 \$20,000
80 s
\$1,670,083 \$1,978,584
\$33,957,483 \$34,635,963
\$665,099 \$678,480
2.00%

9/16/2020