



**BOARD OF DIRECTORS  
EAST BAY MUNICIPAL UTILITY DISTRICT**

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375 - 11th Street, Oakland, CA 94607

Office of the Secretary: (510) 287-0440

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**AGENDA  
Tuesday, May 14, 2019**

**REGULAR CLOSED SESSION  
11:00 a.m., Boardroom**

**ROLL CALL:**

**PUBLIC COMMENT:** The Board of Directors is limited by State law to providing a brief response, asking questions for clarification, or referring a matter to staff when responding to items that are not listed on the agenda.

**ANNOUNCEMENT OF CLOSED SESSION AGENDA:**

1. Existing litigation pursuant to Government Code section 54956.9(a):
  - a. *Donald Licata v. East Bay Municipal Utility District*  
WCAB No.: ADJ10891832
  - b. *Timothy Alford, et al. v. East Bay Municipal Utility District, et al.*  
Contra Costa County Superior Court, Case No. MSC16-01348
2. Significant exposure to litigation pursuant to Government Code section 54956.9(d)(2):
  - a. Town of Moraga  
Claim No. 2017-L-290
  - b. William Strauss and Suzanne Strauss  
Claim No. 2018-L-076
3. Initiation of litigation pursuant to Government Code section 54956.9(d)(4): one matter.

***(The Board will hold Closed Session in Conference Room 8)***

**REGULAR BUSINESS MEETING  
1:15 p.m., Boardroom**

**ROLL CALL:**

**BOARD OF DIRECTORS:**

- Pledge of Allegiance

**ANNOUNCEMENTS FROM CLOSED SESSION:**

**PUBLIC COMMENT:** The Board of Directors is limited by State law to providing a brief response, asking questions for clarification, or referring a matter to staff when responding to items that are not listed on the agenda.

**CONSENT CALENDAR:** (Single motion and vote approving 9 recommendations, including 1 resolution.)

1. Approve the Regular Meeting Minutes of April 23, 2019.
2. File correspondence with the Board.
3. Authorize an agreement beginning on or after May 14, 2019 with Brown and Caldwell in an amount not to exceed \$1,995,000 for engineering services in preparation of a master plan for the Main Wastewater Treatment Plant.
4. Authorize an agreement beginning on or after May 14, 2019 with Carollo Engineers, Inc., in an amount not to exceed \$279,800 for supplemental construction inspection services for the South Interceptor 3<sup>rd</sup> Street Rehabilitation Phase 2 Project under SD-392.
5. Authorize an agreement beginning on or after May 14, 2019 with Gayner Engineers in an amount not to exceed \$1,183,530 for engineering and design services for improvements to buildings' heating, ventilation, and air conditioning, fire protection, and roof systems at the Main Wastewater Treatment Plant.
6. Authorize a contract and an agreement related to purchasing and refurbishing ball valves for the District's Main Wastewater Treatment Plant Influent Pump Station.
  - 6.1. Authorize the direct award of a contract to Frank A. Olsen Company in the amount, after the addition of taxes and site inspections, not to exceed \$338,931 for supplying one 42-inch diameter ball valve.
  - 6.2. Authorize the direct award of an agreement beginning on or after May 14, 2019 with Unico Mechanical Corporation in an amount not to exceed \$166,037 for the refurbishment of one 42-inch diameter ball valve.
7. Authorize an amendment to the agreement awarded under Board Motion No. 161-17 on September 26, 2017 with Pacific States Environmental Contractors, Inc., to increase the amount by \$6,306,000 to a total amount not to exceed \$21,306,000 for trench soils removal services.
8. Approve the Water Supply Assessment requested by the City of Oakland for the Oakland Waterfront Ballpark Project pursuant to California Water Code, Sections 10910-10915.
9. Authorize actions related to the sale of the Punchbowl Reservoir property in Oakland. (Resolution)
  - 9.1. Approve the sale of the property to Mr. Minh Doan for the purchase price of \$505,000.
  - 9.2. Authorize District staff to execute the Property Purchase Agreement and Joint Escrow Instructions for the sale of the property to Mr. Minh Doan.

## **DETERMINATION AND DISCUSSION:**

10. Legislative Report:

- Receive Legislative Report No. 03-19 and consider positions on the following bills: AB 557 (Wood) Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program; AB 1414 (Friedman) Urban Retail Water Suppliers: Reporting; AB 1588 (Gloria) Drinking Water and Wastewater Operator Certification Programs; and SB 487 (Caballero) Department of Water Resources: Aerial Snow Survey
- Update on Legislative Issues of Interest to EBMUD

11. Conduct a second and final reading, and vote on an ordinance amending Section 21 of the EBMUD Employees' Retirement System Ordinance (Ordinance No. 40) to update the actuarially assumed rate of return from 7.25 percent to 7.00 percent. (2<sup>nd</sup> Reading and Vote – Ordinance No. 370-19)

12. File a report and set a Public Hearing for the Water and Wastewater System Schedule of Rates and Charges, Capacity Charges and Other Fees.

12.1. File the General Manager's Report and Recommendation for revisions to the Water and Wastewater System Schedule of Rates and Charges, Capacity Charges and Other Fees.

12.2. Set a Public Hearing for Tuesday, June 11, 2019, during the Board's regular meeting to consider the report and recommendation, and to comply with Proposition 218 requirements.

13. General Manager's Report:

- Monthly Report – April 2019

## **REPORTS AND DIRECTOR COMMENTS:**

14. Committee Reports:

- Sustainability/Energy
- Finance/Administration
- Planning
- Legislative/Human Resources

15. Other Items for Future Consideration.

16. Director Comments.

## **ADJOURNMENT:**

***The next Regular Meeting of the Board of Directors will be held at 2:30 p.m. on Tuesday, May 28, 2019 at Castro Valley Library, Chabot/Canyon Room, 3600 Norbridge Avenue, Castro Valley, California 94546***

### **Disability Notice**

*If you require a disability-related modification or accommodation to participate in an EBMUD public meeting please call the Office of the Secretary (510) 287-0404. We will make reasonable arrangements to ensure accessibility. Some special equipment arrangements may require 48 hours advance notice.*

### **Document Availability**

*Materials related to an item on this agenda that have been submitted to the EBMUD Board of Directors within 72 hours prior to this meeting are available for public inspection in EBMUD's Office of the Secretary at 375 11<sup>th</sup> Street, Oakland, California, during normal business hours, and can be viewed on our website at [www.ebmud.com](http://www.ebmud.com).*

## BOARD CALENDAR

Date	Meeting	Time/Location	Topics
Tuesday, May 14	<b>Planning Committee</b> Linney {Chair}; McIntosh; Mellon	9:45 a.m. Training Resource Center	<ul style="list-style-type: none"> <li>• Bayfair Pumping Plant and Estudillo Avenue Pipeline Replacement Project Update</li> <li>• San Ramon Valley Recycled Water Program Pump Station R3000 Project Update</li> </ul>
	<b>Legislative/Human Resources Committee</b> Coleman {Chair}; McIntosh; Patterson	10:15 a.m. Training Resource Center	<ul style="list-style-type: none"> <li>• Legislative Update</li> <li>• Workforce Development Strategies – Center for Employment Opportunities Pilot Project</li> <li>• Wastewater Plant Operator Training Program</li> </ul>
	<b>Board of Directors</b>	11:00 a.m. 1:15 p.m.	<ul style="list-style-type: none"> <li>• Closed Session</li> <li>• Regular Meeting</li> </ul>
Monday, May 27	<b>Memorial Day</b>		<i>District Offices Closed</i>
Tuesday, May 28	<b>Finance/Administration Committee</b> Patterson {Chair}; Coleman; Katz	1:30 p.m. Castro Valley Library Chabot/Canyon Rm. 3600 Norbridge Ave. Castro Valley, CA	
	<b>Board of Directors</b>	2:00 p.m. 2:30 p.m. Castro Valley Library Chabot/Canyon Rm. 3600 Norbridge Ave. Castro Valley, CA	<ul style="list-style-type: none"> <li>• Closed Session</li> <li>• Regular Meeting</li> </ul>
Tuesday, June 11	<b>Planning Committee</b> Linney {Chair}; McIntosh; Mellon	9:15 a.m. Training Resource Center	
	<b>Legislative/Human Resources Committee</b> Coleman {Chair}; McIntosh; Patterson	10:15 a.m. Training Resource Center	
	<b>Board of Directors</b>	11:00 a.m. 1:15 p.m.	<ul style="list-style-type: none"> <li>• Closed Session</li> <li>• Regular Meeting</li> </ul>



## **MINUTES**

**Tuesday, April 23, 2019**

**East Bay Municipal Utility District  
Board of Directors  
375 Eleventh Street  
Oakland, California**

### **Regular Closed Session Meeting**

President Marguerite Young called to order the Regular Closed Session Meeting of the Board of Directors at 11:05 a.m. in the Administration Center Board Room.

### **ROLL CALL**

Directors John A. Coleman, Andy Katz, Doug Linney, Lesa R. McIntosh, Frank Mellon, William B. Patterson, and President Marguerite Young were present at roll call.

Staff present included General Manager Alexander R. Coate, General Counsel Craig S. Spencer, Assistant General Counsel Xanthe M. Berry (Items 1a, 2a and 2b), Engineering Manager Elizabeth Z. Bialek (Items 1a, 2a, and 2b), and Attorney Derek T. McDonald (Items 1a, 2a, and 2b).

### **PUBLIC COMMENT**

- Addressing the Board was Eric Larsen, Recording Secretary, AFSCME Local 444, who commented on the proposed amendments to the District's Employees' Retirement System Ordinance.

### **ANNOUNCEMENT OF CLOSED SESSION AGENDA**

President Young announced the closed session agenda. The Board convened to Conference Room 8 for discussion.

### **Regular Business Meeting**

President Young called to order the Regular Business Meeting of the Board of Directors at 1:15 p.m. in the Administration Center Board Room.

### **ROLL CALL**

Directors John A. Coleman, Andy Katz, Doug Linney, Lesa R. McIntosh, Frank Mellon, William B. Patterson, and President Marguerite Young were present at roll call.

Staff present included General Manager Alexander R. Coate, General Counsel Craig S. Spencer and Secretary of the District Rischa S. Cole.

### **BOARD OF DIRECTORS**

President Young led the Pledge of Allegiance.

## **PRESENTATION**

General Manager Alexander R. Coate announced the District received the California Municipal Utilities Association's 2019 Best Energy Program Award for a medium-sized utility for the Resource Recovery Program. The Best Energy Program Award is given to utilities that demonstrate innovative and effective approaches in implementing renewable energy resources and strategies for greenhouse gas reduction. The District's Resource Recovery Program utilizes excess digester capacity to convert commercial and industrial food processing wastes into biogas and renewable electricity. As a result, the District's Main Wastewater Treatment Plant was the first in North America to become a net energy producer and export significant amounts of renewable electricity to the grid. On behalf of the Board of Directors, Director Andy Katz presented the award to the following employees in attendance representing all employees that contribute to the success of the Resource Recovery Program: Assistant Wastewater Shift Supervisor Cheryl A. Franklin, Senior Civil Engineer Matthew R. Hoeft, Associate Civil Engineer Michael J. Hyatt, Chemist II Iris C. Kan, Associate Civil Engineer Lilian Leung, Assistant Wastewater Shift Supervisor Ken K. Ma, Wastewater Control Representative Mortay V. Mendoza, Chemist II Robert M. Molina, and Plant Mechanical Maintenance Supervisor Ryan D. Quezada.

## **ANNOUNCEMENTS FROM CLOSED SESSION**

There were no announcements required from closed session.

## **PUBLIC COMMENT**

There was no public comment.

## **CONSENT CALENDAR**

- Item 1 was removed from the Consent Calendar for comment.
- Motion by Director McIntosh, seconded by Director Coleman, to approve the recommended actions for Items 3-8 on the Consent Calendar, carried (7-0) by the following voice vote: AYES (Coleman, Katz, Linney, McIntosh, Mellon, Patterson, and Young); NOES (None); ABSTAIN (None); ABSENT (None).

### **1. Motion No. 070-19 – Approved the Regular Meeting Minutes of April 9, 2019.**

President Young pulled Item 1 to report the draft minutes submitted for approval have been corrected and a copy of the corrected version was provided at Board places.

- Motion by Director McIntosh, seconded by Director Coleman, to approve the recommended action for Item 1, carried (7-0) by the following voice vote: AYES (Coleman, Katz, Linney, McIntosh, Mellon, Patterson, and Young); NOES (None); ABSTAIN (None); ABSENT (None).

2. The following correspondence was filed with the Board: **1)** April 9, 2019 EBMUD Regular Board Meeting minutes (corrected version); **2)** Presentation entitled “Amendment to EBMUD Retirement System Ordinance (No. 40) – Section 21 First Reading,” dated April 23, 2019; **3)** Presentation entitled “2019 Water Supply Availability & Deficiency Report,” dated April 23, 2019; **4)** Presentation entitled “2019 Water Supply Update,” dated April 23, 2019; **5)** Memo to Board of Directors from Secretary of the District Risha S. Cole entitled “Board Meeting Video Recording Pilot – Update,” dated April 23, 2019; and **6)** Speakers’ Bureau and Outreach Record CY19 dated April 23, 2019.
3. **Motion No. 064-19** – Authorized an agreement with the City of Pleasant Hill in the total amount not to exceed \$146,916 to upgrade District gate valve boxes after street paving beginning on or after April 23, 2019 through June 30, 2019.
4. **Motion No. 065-19** – Authorized an agreement beginning on or after April 23, 2019 with Scott Johnston, Inc., in an amount not to exceed \$100,000 for supplying software support services for the District’s Laboratory Information Management System for two years.
5. **Motion No. 066-19** – Authorized an agreement beginning on or after April 23, 2019 with Tait Environmental Services, Inc., in an amount not to exceed \$943,786 for engineering design services for the Fuel System Improvements Project.
6. **Motion No. 067-19** – Approved the Water Supply Assessment requested by the City of Oakland for the Downtown Oakland Specific Plan pursuant to California Water Code, Sections 10910-10915.
7. **Motion No. 068-19** – Approved the February and March 2019 Monthly Investment Transactions Reports.
8. **Resolution No. 35137-19** – Adopting Revised Policy 4.07, “Investment Policy.”

#### **DETERMINATION AND DISCUSSION**

9. **Conduct a Second Reading of and enact an Ordinance amending the Regional Private Sewer Lateral Ordinance (Ordinance No. 359-13, As Previously Amended), specifically Sections 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 18 thereof.**
  - Motion by Director Mellon, seconded by Coleman, to approve the recommended action for Item 9, carried (7-0) by the following voice vote: AYES (Coleman, Katz, Linney, McIntosh, Mellon, Patterson, and Young); NOES (None); ABSTAIN (None); ABSENT (None).

**Ordinance No. 369-19** – An Ordinance Amending Sections 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, And 18 Of Ordinance No. 359-13, As Previously Amended, Which Is The Regional Private Sewer Lateral Ordinance. *(Second Reading and Vote – Ordinance No. 369-19)*

10. **Introduction and First Reading on an Ordinance amending Section 21 of the EBMUD Employees' Retirement System Ordinance (Ordinance No. 40) to update the actuarially assumed rate of return from 7.25 percent To 7.00 percent.**

Manager of Employee Services Lisa A. Sorani presented an overview of the proposed amendments to the ordinance. At its September 20, 2018 meeting, the Retirement Board adopted the actuaries' recommendation to change the actuarially assumed rate of return (ROR) from 7.25 percent to 7.00 percent. This reduction was recommended to the Retirement Board as part of the June 30, 2018 Actuarial Evaluation. Approval of the proposed amendments ensures the ordinance language is consistent with the change adopted by the Retirement Board in September 2018. The ordinance amendments must be in effect on July 1, 2019. The second reading and vote on the ordinance is scheduled for the May 14, 2019 Board of Directors meeting. The amendments would take effect 30 days after the amended ordinance's passage, and the Municipal Utility District Act requires the amendments be published once a week for two successive weeks in a newspaper of general circulation published in the District.

**Ordinance No. 370-19** – An Ordinance, Effective As Of July 1, 2019, Amending Section 21 "Optional Modification Of Retirement Allowance," to Ordinance No. 40, Which Is The Employees' Retirement System Ordinance. (*Introduction and First Reading*).

11. **File the Water Supply Availability and Deficiency Report in conformance with District Policy 9.03 – Water Supply Availability and Deficiency and declare that the District's water supply is sufficient for meeting customer demands in 2019.**

Engineering Manager Lena L. Tam presented the Water Supply Availability and Deficiency Report. The 2019 assessment determined that the end of September total system storage is projected to be full, greater than 630 thousand acre-feet, resulting in the District's water supply being sufficient to meet customer demands in 2019. The assessment also concludes that projected runoff and water storage require designating "Normal and Above" water year type flows in the lower Mokelumne River under the District's Joint Settlement Agreement (JSA). Based on current 2019 runoff projections for the remainder of the year, Woodbridge Irrigation District will receive its full base supply of 60,000 acre-feet (AF); Jackson Valley Irrigation District can receive its maximum entitlement of 3,850 AF, but direct diversion may not be available in all months; and North San Joaquin Water Conservation District (NSJWCD), a junior water right holder, may receive up to 20,000 AF. Flood control releases continue as necessary to meet flood control obligations. The JSA requires the District notify resource agencies of the availability of surplus water and Ms. Tam reported that surplus water will likely be available for use in the Demonstration Recharge Extraction and Aquifer Management Project, the District's Bayside Groundwater Project and pulse flow operations.

- Motion by Director McIntosh, seconded by Director Patterson, to approve the recommended action for Item 11, carried (7-0) by the following voice vote: AYES (Coleman, Katz, Linney, McIntosh, Mellon, Patterson, and Young); NOES (None); ABSTAIN (None); ABSENT (None).

**Motion No. 069-19** – Filed the Water Supply Availability and Deficiency Report in conformance with District Policy 9.03 – Water Supply Availability and Deficiency; and declared the District's water supply is sufficient for meeting customer demands in 2019.

**12. General Manager's Report.**

Manager of Maintenance and Construction/Water Operations David A. Briggs provided a Water Supply update as of April 21 which included the District's current water supply, springtime reservoir operations, the current snow water content at Caples Lake (212% of average), and precipitation in the East Bay (101% of average) and the Mokelumne (133% percent of average). As of April 21, the District's total system storage was 670,900 acre feet, which is 106% of average and 87% of capacity. He reviewed the plans and processes to be used to notify staff, downstream river users, and key stakeholders as the District prepares to manage Pardee Reservoir inflow and Camanche Reservoir releases once snow melt flows enter the District's system. Mr. Briggs responded to Board questions regarding flood releases, the U.S. Army Corps of Engineers' rule curve, and storage and release practices at the Pacific Gas and Electric reservoir above Pardee Reservoir. Staff will provide a presentation at a future Planning Committee meeting regarding the U.S. Army Corps of Engineers' rule curve.

General Manager Coate commented on the memo regarding the Board meeting video recording pilot and the updated Speakers' Bureau and Outreach Record at Board places.

**REPORTS AND DIRECTOR COMMENTS:**

**13. Committee Reports.**

- Filed with the Board were the Planning and Legislative/Human Resources Committee Minutes of April 9, 2019.
- Sustainability/Energy Committee Chair Doug Linney reported the Committee met at 9:30 a.m. to receive information on Photovoltaics; a draft Climate Action Policy; Earthquake Preparedness; a Water Quality Program Annual Update; and a Wastewater Biogas Utilization Update.
- Finance/Administration Committee Chair William B. Patterson reported the Committee met at 10:30 a.m. to receive information on the District's Quarterly Financial Reports; Monthly Investment Transactions Reports; an Investment Policy Annual Review; and an Electronic Bill Presentment and Payment and Payment Processing Update.

**14. Other Items for Future Consideration.**

None.

**15. Director Comments.**

- Director Coleman reported attending/participating in the following events: FRWA Board meeting in Oakland on April 11 and a Bay Area Council luncheon in San Francisco on April 16. He reported on plans to attend the following events: Contra Costa County Mayors' Conference in Lafayette on May 2; ACWA Conference in Monterey on May 7; Lafayette Rotary Band Concert in Lafayette on May 11; and a DERWA Special Board meeting in Dublin on May 13.
- Director Katz reported attending/participating in the following events: Oakland League of Women Voters luncheon in Oakland on April 11 and Alameda County Central Labor Council in San Leandro on April 13.

- Director Mellon reported attending/participating in the following events: Alameda County Mayors' Conference in Union City on April 10 and DERWA Special Board meeting in Dublin on April 16.
- Director Patterson reported attending/participating in the following events: Clem Daniels' funeral in Oakland on April 3; The Very Reverend James Vernon Matthews II funeral in Oakland on April 7; and the Oakland League of Women Voters luncheon in Oakland on April 11.
- President Young reported attending/participating in the following events: Ward 3 briefing and a meeting with Steve Woekle in Orinda on April 15.
- Directors Linney and McIntosh had no report.

### **ADJOURNMENT**

At the request of Director McIntosh, President Young closed the meeting in memory of West County Wastewater District Director Leonard "Mac" McNeil who passed away on April 14.

President Young adjourned the meeting at 2:00 p.m.

SUBMITTED BY:

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Rischa S. Cole, Secretary of the District

APPROVED: May 13, 2019

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Marguerite Young, President of the Board



AGENDA NO.  
MEETING DATE

3.  
May 14, 2019

TITLE INTEGRATED MAIN WASTEWATER TREATMENT PLANT MASTER PLAN

☒ MOTION \_\_\_\_\_ ☐ RESOLUTION \_\_\_\_\_ ☐ ORDINANCE \_\_\_\_\_

### RECOMMENDED ACTION

Authorize an agreement beginning on or after May 14, 2019 with Brown and Caldwell in an amount not to exceed \$1,995,000 for engineering services in preparation of a master plan for the Main Wastewater Treatment Plant (MWWTP). In authorizing this agreement, the Board of Directors finds that this work cannot be satisfactorily performed under civil service.

### SUMMARY

The District's MWWTP was originally constructed in 1951. The aging infrastructure, along with increasingly stringent water quality and environmental regulations, has made it necessary to investigate options for upgrading and modifying the MWWTP facilities. The District has embarked on an effort to develop a comprehensive master plan that will integrate all the competing priorities, including aging infrastructure needs, seismic vulnerabilities, regulatory changes, growth in the service area, Resource Recovery (R2) Program strategies, climate change impacts, and operational improvements for the MWWTP. This project was discussed at the July 10, 2018 Planning Committee, the November 13, 2018 Long-Term Infrastructure Investment Workshop, and the March 26, 2019 Budget Workshop No. 2.

### DISCUSSION

Since its original construction, the MWWTP has changed dramatically. Wastewater treatment processes have been added and major capital improvements have been completed. However, many of the facilities are aging and significant capital improvements are needed to repair and rehabilitate the existing systems to maintain reliable services and protect District assets.

In addition to aging infrastructure, there is growing concern regarding regulatory changes, especially related to nutrient levels in wastewater plant discharges and biosolids management. The District's MWWTP contributes approximately 20 percent of the total nutrient discharges to San Francisco Bay (Bay) from all 37 Bay municipal wastewater treatment plants combined. Regulations requiring a reduction in this number could cost the District up to \$2.9 billion in modifications. Biosolids management is another concern, as regulators are currently discussing potential new regulations that

Funds Available: FY19		Budget Code: WWC/926/2012127/5231
DEPARTMENT SUBMITTING  Wastewater	DEPARTMENT MANAGER or DIRECTOR  <i>Eileen M. White</i> Eileen M. White	APPROVED  <i>Stephen R. Curb</i> General Manager

Contact the Office of the District Secretary with questions about completing or submitting this form.



could significantly reduce District options for biosolids disposal. The integrated MWWTP Master Plan will serve as a roadmap to guide future capital improvement projects, land use, power supply plans, and the R2 Program for the next 30 years. It will help to prioritize capital projects and determine funding needed to repair and upgrade the MWWTP's aging infrastructure. It will proactively address increasingly stringent water quality and environmental regulations to protect public health and promote stewardship of the Bay. It will address potential climate change impacts and incorporate principles of sustainability. This project supports the District's Long-Term Infrastructure Investment Strategic Plan goal, specifically to "maintain and improve the District's infrastructure in a cost-effective manner" by maintaining coordinated master plans for all facilities and assets. The master plan is expected to take two years to complete.

## **CONSULTANT SELECTION**

Requests for proposals were sent to 58 firms, including nine minority-owned firms with expertise in master planning, and posted to the District website. Three firms submitted proposals and were placed on the short list. Brown and Caldwell was selected based on its qualifications and experience in delivering master plans for other complex wastewater treatment facilities.

## **SUSTAINABILITY**

### **Economic**

Funding for this item is available in the FY19 budget for the MWWTP Master Plan Project.

### **Social**

The completed P-035 and P-061 forms for the Contract Equity Program are attached.

Local 2019 was notified of this agreement on June 26, 2018. Local 2019 did not raise any specific issues related to this agreement.

### **Environmental**

Reliable operation of the MWWTP is essential for meeting regulatory requirements and continuing to protect the Bay by treating wastewater prior to discharge.

## **ALTERNATIVES**

**Select a different consultant to perform the work.** This alternative is not recommended because Brown and Caldwell has the best qualified team in areas crucial to the MWWTP Master Plan development, including nutrient management, biosolids handling, and the development of a roadmap that provides a holistic approach and integrates infrastructure renewal needs with changing regulations.



# Integrated Main Wastewater Treatment Plant Master Plan

May 14, 2019

Page 3

**Delay or do not proceed with the project.** This alternative is not recommended because the MWWTP Master Plan is needed to inform future capital improvement programs and to meet changing regulations.

**Complete the work with District forces.** This alternative is not recommended because District staff does not have the specialized technical expertise necessary to perform the tasks identified. District staff will perform key tasks to inform the consultant's tasks, oversee consultant work, coordinate all in-house activities and reviews, and facilitate all management briefings and approvals.

## Attachments

P-035 – Contract Equity Program Summary

P-061 – Affirmative Action Summary

I:\Sec\2019 Board Related Items\051419 Board Agenda Items\WW – Integrated MWWTP Master Plan.doc





# CONTRACT EQUITY PROGRAM SUMMARY (P-035)

This summary contains information on the contractor's workforce and contract equity participation. (Completed by District)

<b>TITLE</b> <b>Professional Services Agreement</b> <b>Integrated Main Wastewater Treatment Plant Master Plan</b>				<b>DATE:</b> <b>May 1, 2019</b>							
<b>CONTRACTOR:</b> Brown and Caldwell Walnut Creek, CA 94596				<b>PERCENTAGE OF CONTRACT DOLLARS</b> Local Business							
<b>BID/PROPOSER'S PRICE:</b> \$1,995,000		<b>FIRM'S OWNERSHIP</b> Ethnicity: White Gender: Men		<b>Availability Group</b> White Men	<b>Contracting Objectives</b> 25%	<b>Participation</b> 94.2%					
				<b>White Women</b> 6%	<b>3.3%</b>	<b>2.5%</b>					
				<b>Ethnic Minorities</b> 25%	<b>2.5%</b>						
<b>CONTRACT EQUITY PARTICIPATION</b>											
<b>COMPANY NAME</b>	<b>ESTIMATED AMOUNT</b>	<b>ETHNICITY</b>	<b>GENDER</b>		<b>CONTRACTING PARTICIPATION</b>						
			<b>M</b>	<b>W</b>	<b>White-Men</b>	<b>White-Women</b>	<b>Ethnic Minorities</b>	<b>Unclassified</b>	<b>Publicly Held Corp.</b>	<b>Gov't/Non Profit</b>	<b>Foreign</b>
<b>PRIME:</b> Brown and Caldwell	\$1,185,800	White	X		59.4%						
<b>SUBS:</b> Carollo Engineers, Inc.	\$607,900	White	X		30.5%						
LEE & RO, Inc.	\$50,000	Asian	X				2.5%				
SRT Consultants	\$37,300	White		X		1.9%					
Mike Stenstrom, PhD	\$45,000	White	X		2.3%						
Wilson Industrial Sales Company, Inc.	\$30,000	White	X		1.5%						
R. Alexander & Associates	\$10,000	White	X		0.5%						
Saylor Consulting Group	\$29,000	White		X		1.5%					
<b>TOTAL</b>	\$1,995,000				94.2%	3.3%	2.5%	0.0%	0.0%	0.0%	0.0%
<b>CONTRACTOR'S WORKFORCE PROFILE (From P-025 Form)</b>											
	<b>White Men</b>	<b>White Women</b>	<b>Ethnic Minorities</b>	<b>Total Employees</b>							
<b>No. of Employees:</b>	40	43	42	125							
<b>Percent of Total Employees:</b>	32.0%	34.4%	33.6%								
<b>MSA Labor Market %:</b>	30.8%	25.1%	44.0%								
<b>MSA Labor Market Location:</b>	9 Bay Area Counties										
<b>COMMENTS</b>											
<b>Contract Equity Participation</b> - 94.2% White Men participation, 3.3% White Women participation, and 2.5% Ethnic Minority participation.											
<b>Workforce Profile &amp; Statement of Nondiscrimination Submitted</b>				<b>Good Faith Outreach Efforts Requirement Satisfied</b>				<b>Award Approval Recommended</b>			
NA				YES				Beverly Johnson CW			



# AFFIRMATIVE ACTION SUMMARY (P-061)

(Completed by District)

This summarizes information provided by the contractor(s)' P-025 Form regarding their workforce.

Title: <b>Integrated Main Wastewater Treatment Plant Master Plan</b>			Ethnic Minority Percentages From U.S. Census Data							
				B	H	A/PI	AI/AN			TOTAL
			National	10.5	10.7	3.7	0.7			27.3
<b>Professional Services Agreement</b>			DATE: 5/1/2019	<b>9 Bay Area Counties</b>		5.5	16.2	14.2	0.4	39.9
				<b>Alameda/CC Counties</b>		10.7	15.6	15.4	0.5	46.2
R=Recmmd P=Prime S=Sub	Composition of Ownership		Number of Ethnic Minority Employees							
Company Name, Owner/Contact Person, Address, and Phone Number				B	H	A/PI	AI/AN	TOTAL	PERCENT	MSA %
P	<b>WM: LBE</b>		<b>Company Wide</b>	3	13	22	1	39	31.2%	39.9%
Brown and Caldwell Robert Chapman 201 North Civic Drive, Suite 300 Walnut Creek, CA 94596  303-239-5461			Manager/Prof	3	11	18	1	33	29.7%	
			Technical/Sales	0	0	2	0	2	100.0%	
			Clerical/Skilled	0	2	2	0	4	33.3%	
			Semi/Unskilled	0	0	0	0	0	0.0%	
			<b>Bay Area</b>	3	13	22	0	38	30.4%	39.9%
			AA Plan on File:	NA		Date of last contract with District:		10/18/2018		
			Co. Wide MSA:	9 Bay Area Counties		# Employees-Co. Wide:		125	Bay Area:	125
S	<b>WM: LBE</b>		<b>Company Wide</b>	35	83	105	2	225	22.3%	27.3%
Carollo Engineers, Inc. Angela Keezer 2700 Ygnacio Valley Road, Suite 300 Walnut Creek, CA 94598  602-474-4236			Manager/Prof	29	57	90	1	177	17.5%	
			Technical/Sales	5	13	10	1	29	3.5%	
			Clerical/Skilled	1	13	5	0	19	17.8%	
			Semi/Unskilled	0	0	0	0	0	0.0%	
			<b>Bay Area</b>	3	5	22	0	30	25.6%	39.9%
			Co. Wide MSA:	Total USA		# Employees-Co. Wide:		1,011	Bay Area:	117
S	<b>EMM: A/PI - L/SBE</b>		<b>Company Wide</b>	2	11	19	0	32	55.2%	48.4%
LEE & RO, Inc. Gregory Holmes 1515 Oakland Blvd., Suite 240 Walnut Creek, CA 94596  626-667-5303			Manager/Prof	1	4	12	0	17	29.3%	
			Technical/Sales	0	4	5	0	9	22.0%	
			Clerical/Skilled	1	3	2	0	6	60.0%	
			Semi/Unskilled	0	0	0	0	0	0.0%	
			<b>Bay Area</b>	0	0	1	0	1	20.0%	39.9%
			Co. Wide MSA:	California		# Employees-Co. Wide:		58	Bay Area:	5
S	<b>WW: SBE</b>		<b>Company Wide</b>	INFORMATION NOT PROVIDED						
SRT Consultants Tanya Yurovsky 90 New Montgomery Street, Suite 905 San Francisco, CA 94105  415-231-5768			Manager/Prof							
			Technical/Sales							
			Clerical/Skilled							
			Semi/Unskilled							
			<b>Bay Area</b>	INFORMATION NOT PROVIDED						
			Co. Wide MSA:							
S	<b>WM</b>		<b>Company Wide</b>	INFORMATION NOT PROVIDED						
Mike Stenstrom, PhD Michael K. Stenstrom 5714 Boelter Hall Los Angeles, CA 90095  310-825-1408			Manager/Prof							
			Technical/Sales							
			Clerical/Skilled							
			Semi/Unskilled							
			<b>Bay Area</b>	INFORMATION NOT PROVIDED						
			Co. Wide MSA:							
S	<b>WM</b>		<b>Company Wide</b>	INFORMATION NOT PROVIDED						
Wilson Industrial Sales Company, Inc. Douglas Deno 5063 S. 1000 W Rensselaer, IN 47978  219-863-8113			Manager/Prof							
			Technical/Sales							
			Clerical/Skilled							
			Semi/Unskilled							
			<b>Bay Area</b>	INFORMATION NOT PROVIDED						
			Co. Wide MSA:							

WM=White Male, WW=White Women, EM=Ethnic Minority (Ethnicities: B=Black, H=Hispanic, A/PI=Asian/Pacific Islander, and AI/AN=American Indian/Alaskan Native)





# AFFIRMATIVE ACTION SUMMARY (P-061)

(Completed by District)

This summarizes information provided by the contractor(s)' P-025 Form regarding their workforce.

Title: <b>Integrated Main Wastewater Treatment Plant Master Plan</b>			Ethnic Minority Percentages From U.S. Census Data						
				B	H	A/PI	AI/AN	TOTAL	
<b>Professional Services Agreement</b> DATE: 5/1/2019			National	10.5	10.7	3.7	0.7	27.3	
			9 Bay Area Counties	5.5	16.2	14.2	0.4	39.9	
			Alameda/CC Counties	10.7	15.6	15.4	0.5	46.2	
R=Recmmd P=Prime S=Sub	Composition of Ownership	Number of Ethnic Minority Employees							
Company Name, Owner/Contact Person, Address, and Phone Number		B	H	A/PI	AI/AN	TOTAL	PERCENT	MSA %	
S	WM	Company Wide	INFORMATION NOT PROVIDED						
R. Alexander & Associates Ron Alexander 1212 Eastham Drive Apex, NC 27502  919-367-8350		Manager/Prof							
		Technical/Sales							
		Clerical/Skilled							
		Semi/Unskilled							
		Bay Area							
		Co. Wide MSA:							
S	WM	Company Wide	INFORMATION NOT PROVIDED						
Saylor Consulting Group Natalie Saylor 505 Montgomery Street, 11th Floor San Francisco, CA 94111  415-399-9990		Manager/Prof							
		Technical/Sales							
		Clerical/Skilled							
		Semi/Unskilled							
		Bay Area							
		Co. Wide MSA:							
P	WW: L/SBE	Company Wide	1	0	1	0	2	14.3%	39.9%
McGovern McDonald Engineers Patricia McGovern 2121 N. California Blvd., Suite 290 Walnut Creek, CA 94596  415-601-3785		Manager/Prof	1	0	1	0	2	14.3%	
		Technical/Sales	0	0	0	0	0	0.0%	
		Clerical/Skilled	0	0	0	0	0	0.0%	
		Semi/Unskilled	0	0	0	0	0	0.0%	
		Bay Area	0	0	0	0	0	0.0%	
		Co. Wide MSA:	9 Bay Area Counties		# Employees-Co. Wide: 14		Bay Area: 22		
P	WM: LBE	Company Wide	0	0	4	0	4	2.8%	27.3%
Woodard & Curran, lead JV partner Kathleen Welter 2175 N. Main Street Walnut Creek, CA 94596 201-558-3659		Manager/Prof	0	0	3	0	3	2.1%	
		Technical/Sales	0	0	1	0	1	0.9%	
		Clerical/Skilled	0	0	0	0	0	0.0%	
		Semi/Unskilled	0	0	0	0	0	0.0%	
		Bay Area	0	0	0	0	0	0.0%	
		Co. Wide MSA:	Total USA		# Employees-Co. Wide: 142		Bay Area: 0		

WM=White Male, WW=White Women, EM=Ethnic Minority (Ethnicities: B=Black, H=Hispanic, A/PI=Asian/Pacific Islander, and AI/AN=American Indian/Alaskan Native)





AGENDA NO.  
MEETING DATE

4.  
May 14, 2019

TITLE **CONSULTANT AGREEMENT FOR CONSTRUCTION INSPECTION SERVICES  
FOR SOUTH INTERCEPTOR 3<sup>RD</sup> STREET REHABILITATION PHASE 2**

☒ MOTION ☐ RESOLUTION ☐ ORDINANCE

### RECOMMENDED ACTION

Authorize an agreement beginning on or after May 14, 2019 with Carollo Engineers, Inc., in an amount not to exceed \$279,800 for supplemental construction inspection services for the South Interceptor 3<sup>rd</sup> Street Rehabilitation Phase 2 Project under SD-392. In authorizing this agreement, the Board of Directors finds that this work cannot be satisfactorily performed under civil service.

### SUMMARY

The District is rehabilitating approximately 4,700 feet of the 105-inch diameter South Interceptor to maintain the structural integrity and reliability of this critical wastewater infrastructure. This agreement is for construction inspection services to augment the District's construction inspection staff for the South Interceptor 3<sup>rd</sup> Street Rehabilitation Phase 2 Project. Staff will provide the majority of construction inspection services for this project. Carollo Engineers, Inc. will primarily provide construction inspection services during nights and weekends when specialized construction operations occur. This project was discussed at the Planning Committee meetings on September 11, 2018, and April 9, 2019.

### DISCUSSION

This agreement provides a supplemental construction inspector to ensure that an inspector is onsite during night or weekend construction. Night and weekend construction is anticipated during portions of the project when pipe is being installed into the existing interceptor. The work may require confined space entry of a pipe with live sewer flows. The scope of services includes construction inspections, monitoring of the pipeline rehabilitation, documentation of all construction activities on daily inspection reports, and field verification that the contractor's work complies with contract requirements. The supplemental construction inspector will perform these activities under the direction of District staff. This project supports the District's Long-Term Infrastructure Investment Strategic Plan goal, specifically to "meet operational needs and reliability goals by effectively maintaining infrastructure."

Funds Available: FY19		Budget Code: WWC/927/7999/2012725/5231
DEPARTMENT SUBMITTING  Wastewater	DEPARTMENT MANAGER or DIRECTOR  <i>Eileen M. White</i> Eileen M. White	APPROVED  <i>Stephanie R. Cumb</i> General Manager

Contact the Office of the District Secretary with questions about completing or submitting this form.

## **CONSULTANT SELECTION**

Requests for proposals were sent to seven firms from the District's engineering consultant roster, including two local business enterprises and three small business enterprises with expertise in construction inspection. Two firms submitted proposals and were placed on a shortlist. Carollo Engineers, Inc. was selected based on its experience and knowledge of the project's specialized construction method.

## **SUSTAINABILITY**

### **Economic**

Funding for this item is included in the FY19 budget for the 3<sup>rd</sup> Street Sewer Interceptor Rehabilitation Project.

### **Social**

The completed P-035 and P-061 forms for the Contract Equity Program are attached.

Work under this agreement is subject to payment of current prevailing wages according to determinations for each craft as established by the Director of Industrial Relations of the State of California.

Locals 2019 and 21 were notified of this agreement on January 17, 2019, and did not raise any specific issues related to this agreement.

### **Environmental**

A Notice of Exemption was filed with the Alameda County Clerk on November 25, 2015.

The project will support protection of San Francisco Bay water quality and aid long-term compliance with Statewide General Waste Discharge Requirements, which prohibit sanitary sewer overflows.

## **ALTERNATIVES**

**Select a different consultant to perform the work.** This alternative is not recommended because Carollo Engineers, Inc. provided the most qualified construction inspector and has demonstrated a clear understanding of the project scope and construction inspection methodology.

**Perform work with District staff.** This alternative is not recommended because the Wastewater Department is not sufficiently staffed to inspect the project during nights or weekends. District staff also lacks the technical expertise and experience required to inspect installation of the specialized pipe required for this project.



Consultant Agreement for Construction Inspection Services for South Interceptor 3<sup>rd</sup> St Rehab Phase 2  
May 14, 2019  
Page 3

**Delay or do not proceed with the work.** This alternative is not recommended because the construction project is critical to rehabilitate a key District asset.

#### Attachments

P-035 – Contract Equity Program Summary

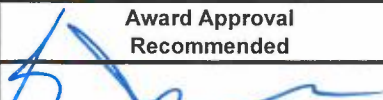
P-061 – Affirmative Action Summary

I:\Sec\2019 Board Related Items\051419 Board Agenda Items\WW – Agrmnt for Construction Inspection Svces for So. Interceptor 3rd St. Ph2.doc



## CONTRACT EQUITY PROGRAM SUMMARY (P-035)

This summary contains information on the contractor's workforce and contract equity participation. (Completed by District)

<b>TITLE</b> <b>Professional Services Agreement - Engineering Consultant Roster</b> Construction Inspection Services for South Interceptor 3rd Street Rehabilitation Phase 2										<b>DATE:</b> April 24, 2019		
<b>CONTRACTOR:</b> Carollo Engineers, Inc. Walnut Creek, CA 94598					<b>PERCENTAGE OF CONTRACT DOLLARS</b>							
Local Business					<b>Availability Group</b>		<b>Contracting Objectives</b>		<b>Participation</b>			
<b>BID/PROPOSER'S PRICE:</b>		<b>FIRM'S OWNERSHIP</b>			<b>White Men</b>		<b>25%</b>		<b>0.0%</b>			
		<b>Ethnicity</b>		<b>Gender</b>		<b>White Women</b>		<b>6%</b>		<b>0.0%</b>		
\$279,800		White		Men		<b>Ethnic Minorities</b>		<b>25%</b>		<b>100.0%</b>		
<b>CONTRACT EQUITY PARTICIPATION</b>												
<b>COMPANY NAME</b>		<b>ESTIMATED AMOUNT</b>	<b>ETHNICITY</b>	<b>GENDER</b>		<b>CONTRACTING PARTICIPATION</b>						
				<b>M</b>	<b>W</b>	<b>White-Men</b>	<b>White-Women</b>	<b>Ethnic Minorities</b>	<b>Unclassified</b>	<b>Publicly Held Corp.</b>	<b>Gov't/Non Profit</b>	<b>Foreign</b>
<b>PRIME:</b> Carollo Engineers, Inc.		\$279,800	White	X				100.0%				
<b>SUBS:</b> None												
		\$279,800				0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%
<b>CONTRACTOR'S WORKFORCE PROFILE (From P-025 Form)</b>												
		<b>White Men</b>		<b>White Women</b>		<b>Ethnic Minorities</b>		<b>Total Employees</b>				
<b>No. of Employees:</b>		482		247		258		987				
<b>Percent of Total Employees:</b>		48.8%		25.0%		26.1%						
<b>MSA Labor Market %:</b>		39.0%		33.7%		27.3%						
<b>MSA Labor Market Location:</b>		Total USA										
<b>COMMENTS</b>												
Contract Equity Participation - 100% White Men participation.												
<b>Workforce Profile &amp; Statement of Nondiscrimination Submitted</b>				<b>Good Faith Outreach Efforts Requirement Satisfied</b>				<b>Award Approval Recommended</b>				
NA				NA								





AGENDA NO.  
MEETING DATE

5.  
May 14, 2019

**TITLE     MAIN WASTEWATER TREATMENT PLANT HVAC AND BUILDING  
IMPROVEMENTS – DESIGN SERVICES**

☒ MOTION                      ☐ RESOLUTION                      ☐ ORDINANCE

**RECOMMENDED ACTION**



Authorize an agreement beginning on or after May 14, 2019 with Gayner Engineers in an amount not to exceed \$1,183,530 for engineering and design services for improvements to buildings' heating, ventilation, and air conditioning (HVAC), fire protection, and roof systems at the Main Wastewater Treatment Plant (MWWTP). In authorizing this agreement, the Board of Directors finds that this work cannot be satisfactorily performed under civil service.

**SUMMARY**

This agreement includes a condition assessment of equipment; the design of mechanical, structural, electrical, and control systems; bid phase assistance; and design and start-up support for upgrades to the HVAC, fire protection, and roof systems at the MWWTP Administration and Laboratory Building and the Dewatering Building. The work will address deficiencies in the buildings' systems, including a leaking roof and poor indoor air circulation, and will reduce the number of work stoppages and delays due to building systems malfunctions. This project was discussed at the March 26, 2019 Budget Workshop No. 2.

**DISCUSSION**

The MWWTP Administration and Laboratory Building houses laboratory facilities that are utilized by multiple departments. This building also houses office space, meeting rooms, and electrical equipment. The Administration and Laboratory Building's HVAC system is outdated and no longer meets the needs of the building. The mechanical equipment is at the end of its useful service life; it requires frequent maintenance, and the control system is obsolete. The roof of this building leaks frequently and must be repaired to avoid damage to equipment and documents stored inside. This project includes replacement and refurbishment of air handlers and the main chiller, upgrades to the building control systems, repair or replacement of the building roof, and upgrades to the fire protection system.

Funds Available: FY19		Budget Code: WWC/928/2012277/5231
DEPARTMENT SUBMITTING  Wastewater	DEPARTMENT MANAGER or DIRECTOR   Eileen M. White	APPROVED   General Manager

Contact the Office of the District Secretary with questions about completing or submitting this form.



The MWWTP Dewatering Building houses wastewater process equipment, such as pumps, centrifuges, and electrical equipment. Air circulation in this building is poor. This project includes evaluation of air circulation patterns within this building, as well as the design of upgrades to address the issues identified. Installation of HVAC equipment will improve temperature and ventilation for a control room located within the Dewatering Building. This project supports the District's Long-Term Infrastructure Investment Strategic Plan goal for meeting operational needs and reliability goals by effectively maintaining infrastructure.

## **CONSULTANT SELECTION**

Requests for proposals were sent to 11 firms with specialized expertise in building and laboratory mechanical engineering, and posted on the District's website. Two firms submitted proposals, both of which were shortlisted and interviewed. Both firms presented strong qualifications; however, Gayner Engineers presented a more detailed technical approach to the scope of work and provided a project manager with more relevant experience in HVAC retrofits for laboratory facilities. Gayner Engineers is a Minority Business Enterprise and Small Business Enterprise.

## **SUSTAINABILITY**

### **Economic**

Funding for this item is included in the FY19 budget for the Treatment Plant Infrastructure Phase 2 Project.

### **Social**

The completed P-035 and P-061 forms for the Contract Equity Program are attached.

Locals 21 and 2019 were notified of this agreement on November 5, 2018. Local 21 did not raise any specific issues related to this agreement. Local 2019 issues were addressed at a meeting on December 5, 2018 and resolved.

### **Environmental**

This project will result in energy efficient improvements to the buildings' HVAC systems.

## **ALTERNATIVES**

**Select a different consultant to perform the work.** This alternative is not recommended because Gayner Engineers has the best qualified team, a sound approach, and a reasonable cost to complete this project.

## Main Wastewater Treatment Plant HVAC and Building Improvements – Design Services

May 14, 2019

Page 3

**Delay or do not proceed with the project.** This alternative is not recommended because the improvements to the HVAC and other buildings' systems are required for operational reliability and maintaining a suitable environment for sensitive lab equipment and District staff.

**Complete the work with District forces.** This alternative is not recommended because District staff does not have the necessary availability or specialized skills to perform the design work due to other high-priority work and the complex nature of the project.

### Attachments

P-035 – Contract Equity Program Summary

P-061 – Affirmative Action Summary

I:\Sec\2019 Board Related Items\051419 Board Agenda Items\WW – MWWTP HVAC and Building Improvements – Design Services.doc







# CONTRACT EQUITY PROGRAM SUMMARY (P-035)

This summary contains information on the contractor's workforce and contract equity participation. (Completed by District)

<b>TITLE</b> <b>Professional Services Agreement</b> Main Wastewater Treatment Plant HVAC and Building Improvements - Design Services				<b>DATE:</b> April 11, 2019								
<b>CONTRACTOR:</b> Gayner Engineers San Francisco, CA 94109				<b>Small Business</b>								
				<b>PERCENTAGE OF CONTRACT DOLLARS</b>								
				<b>Availability Group</b>	<b>Contracting Objectives</b>	<b>Participation</b>						
<b>BID/PROPOSER'S PRICE:</b> \$1,183,530	<b>FIRM'S OWNERSHIP</b>		White Men		25%	0.0%						
	Ethnicity	Gender	White Women		6%	0.0%						
	Asian	Men	Ethnic Minorities		25%	100.0%						
<b>CONTRACT EQUITY PARTICIPATION</b>												
<b>COMPANY NAME</b> PRIME: Gayner Engineers SUBS: None	<b>ESTIMATED AMOUNT</b> \$1,183,530	<b>ETHNICITY</b> Asian	<b>GENDER</b>		<b>CONTRACTING PARTICIPATION</b>							
			M	W	White-Men	White-Women	Ethnic Minorities	Unclassified	Publicly Held Corp.	Gov't/Non Profit	Foreign	
			X				100.0%					
<b>TOTAL</b>		\$1,183,530		0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<b>CONTRACTOR'S WORKFORCE PROFILE (From P-025 Form)</b>												
		<b>White Men</b>	<b>White Women</b>	<b>Ethnic Minorities</b>	<b>Total Employees</b>							
<b>No. of Employees:</b>		3	2	34	39							
<b>Percent of Total Employees:</b>		7.7%	5.1%	87.2%								
<b>MSA Labor Market %:</b>		30.8%	25.1%	44.0%								
<b>MSA Labor Market Location:</b>		San Francisco										
<b>COMMENTS</b>												
Contract Equity Participation - 100.0% Ethnic Minority participation												
<b>Workforce Profile &amp; Statement of Nondiscrimination Submitted</b>				<b>Good Faith Outreach Efforts Requirement Satisfied</b>				<b>Award Approval Recommended</b>				
NA				NA				Beverly Johnson CW				





AGENDA NO.  
MEETING DATE

6.1  
May 14, 2019

TITLE **DIRECT AWARD PROCUREMENT OF ONE 42-INCH DIAMETER BALL VALVE**

☒ MOTION ☐ RESOLUTION ☐ ORDINANCE

### RECOMMENDED ACTION

Authorize the direct award of a contract to Frank A. Olsen Company in the amount, after the addition of taxes and site inspections, not to exceed \$338,931 for supplying one 42-inch diameter ball valve for the District's Main Wastewater Treatment Plant (MWWTP) Influent Pump Station (IPS).

### SUMMARY

The MWWTP's IPS has five influent pumps. Each pump has a 42-inch diameter discharge valve. The discharge valve serves as both the isolation valve and the check valve for the pump. The five discharge valves were installed in 1994 and are in need of significant refurbishment to extend their useful life. The District plans to remove one valve at a time for refurbishment. Since each influent pump requires a valve to open in order for the pump to operate, the purchase of a new ball valve will allow the District to install this new (or "spare") valve in place of the one removed for refurbishment. This will allow the refurbishment work to be performed at any time during the year since it provides the maximum flexibility for operation of the IPS under various flow conditions. Once the valve is refurbished, the spare valve will be removed so the refurbished valve can be put back into service. This process will be repeated for all five valves. At the conclusion of the work, the District will maintain the new ball valve as a spare in its warehouse.

### DISCUSSION

The 42-inch ball valve is a unique asset that is critical for the operation of the influent pumps. The discharge valve is opened automatically after the influent pump is started and the discharge pressure reaches a pre-determined value. If the valve has not traveled to the fully open position, the influent pump will not start. This could create a significant issue during wet weather flows and potentially lead to a sanitary sewer overflow if the pump fails to start in a timely manner. The valve is automatically closed when the influent pump receives a stop signal. If the valve fails to close when the pump is stopped, flows from the entire primary system can backflow into the IPS coarse screen room and flood the room,

Funds Available: FY19		Budget Code: WWC/911/7999/2011798/5301
DEPARTMENT SUBMITTING  Wastewater	DEPARTMENT MANAGER or DIRECTOR  <i>Eileen M. White</i> Eileen M. White	APPROVED  <i>Michael R. Curb</i> General Manager

Contact the Office of the District Secretary with questions about completing or submitting this form.

creating a significant safety issue if personnel are present. Flooding of the coarse screen room would also cause significant damage to the facilities at the IPS.

Utilizing a new valve as a rolling change-out component greatly improves the District's pumping capacity while each valve is rebuilt. This spare valve will reduce the outage of each pump train from ten weeks to one week, and at the completion of the valve refurbishments will provide a spare for use in any unanticipated failures in the future. All valves should be identical to provide flexibility for interchanging parts and ensuring consistent operation and maintenance of the valves. This project supports the District's Long-Term Infrastructure Investment Strategic Plan goal, specifically to "meet operational needs and reliability goals by effectively maintaining infrastructure."

## **VENDOR SELECTION**

Frank A. Olsen Company is located in Livermore, California, and is the only distributor in this geographic area authorized by the manufacturer to sell this valve. If the District were to execute a Request for Quote process for the valve, all bidders would need to procure the valve from Frank A. Olsen Company and likely mark up the price to cover the bidders' overhead and possible profit.

## **SUSTAINABILITY**

### **Economic**

This item is included in the FY19 budget for the Routine Capital Equipment Replacement Project.

### **Social**

The completed P-035 and P-061 forms for the Contract Equity Program are attached.

Procurement of the valve will increase operational reliability and improve worker safety.

### **Environmental**

Procurement of this new valve will ensure the District is able to effectively manage flows and meet all regulatory requirements for protection of public health and the environment.

## **ALTERNATIVES**

**Select an alternate vendor.** This alternative is not recommended. It is most cost-effective for the District to procure the valve directly from Frank A. Olsen Company since they are the sole distributor for this valve in the area.



Direct Award Procurement of One 42-inch Diameter Ball Valve  
May 14, 2019  
Page 3

**Do not procure a spare valve.** This alternative is not recommended since it would result in reduced capacity at the IPS when a valve is removed for refurbishment.

#### Attachments

P-035 – Contract Equity Program Summary  
P-061 – Affirmative Action Summary

I:\Sec\2019 Board Related Items\051419 Board Agenda Items\WW - Purchase of one 42-inch diameter ball valve.doc








# CONTRACT EQUITY PROGRAM SUMMARY (P-035)

This summary contains information on the contractor's workforce and contract equity participation. (Completed by District)

<b>TITLE</b> <b>Materials and Supplies</b> Procurement of One 42-Inch Diameter Ball Valve						<b>DATE:</b> April 25, 2019					
<b>CONTRACTOR:</b> Frank A. Olsen Company Livermore, CA				Direct Award / Local / Small Business		<b>PERCENTAGE OF CONTRACT DOLLARS</b>					
				Availability Group		Contracting Objectives		Participation			
<b>BID/PROPOSER'S PRICE:</b>		<b>FIRM'S OWNERSHIP</b>		White Men		25%		100.0%			
		Ethnicity	Gender	White Women		2%		0.0%			
\$338,931		White	Male	Ethnic Minorities		25%		0.0%			
<b>CONTRACT EQUITY PARTICIPATION</b>											
COMPANY NAME	ESTIMATED AMOUNT	ETHNICITY	GENDER		CONTRACTING PARTICIPATION						
			M	W	White-Men	White-Women	Ethnic Minorities	Unclassified	Publicly Held Corp.	Gov't/Non Profit	Foreign
<b>PRIME:</b> Frank A. Olsen Company  <b>SUBS:</b> None	\$338,931	White	X		100.0%						
<b>TOTAL</b>					\$338,931	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>CONTRACTOR'S WORKFORCE PROFILE (From P-025 Form)</b>											
		White Men		White Women		Ethnic Minorities		Total Employees			
No. of Employees:		9		2		3		14			
Percent of Total Employees:		64.3%		14.3%		21.4%					
MSA Labor Market %:		24.5%		21.6%		53.9%					
MSA Labor Market Location:		Alameda County									
<b>COMMENTS</b>											
Contract Equity Participation - 100% White Men participation.											
<b>Workforce Profile &amp; Statement of Nondiscrimination Submitted</b>				<b>Good Faith Outreach Efforts Requirement Satisfied</b>				<b>Award Approval Recommended</b>			
NA				NA							





AGENDA NO.  
MEETING DATE

6.2  
May 14, 2019

TITLE **DIRECT AWARD REFURBISHMENT OF ONE 42-INCH DIAMETER BALL VALVE**

☒ MOTION ☐ RESOLUTION ☐ ORDINANCE

### RECOMMENDED ACTION

Authorize the direct award of an agreement beginning on or after May 14, 2019 with Unico Mechanical Corporation (Unico) in an amount not to exceed \$166,037 for the refurbishment of one 42-inch diameter ball valve for the Main Wastewater Treatment Plant (MWWTP) Influent Pump Station (IPS).

### SUMMARY

The MWWTP's IPS has five influent pumps which each have a 42-inch diameter discharge valve. The discharge valve serves as both the isolation valve and the check valve for the pump. The five discharge valves were installed in 1994 and are in need of significant refurbishment to extend their useful lives. The District plans to remove one valve at a time for refurbishment.

### DISCUSSION

The District initiated a pilot project in 2018 to assess the condition of the existing valves and to determine whether it is more cost-effective to refurbish the valves or to replace them. The services of Unico, based in Benicia, California, were procured to disassemble one of the existing valves, determine the scope of work required to refurbish the valve to "as new" condition, and assess the associated costs. Based on Unico's assessment, the cost of refurbishing each valve is approximately \$100,000 less than purchasing a new valve. Unfortunately, due to the need to have all five valves in place for the 2018/2019 wet weather season, Unico was unable to complete the pilot project and refurbish the valve, so the valve was reassembled and returned to the District with the refurbishment incomplete.

Based on the results of the valve inspection, the District plans to issue a Request for Proposals (RFP) for refurbishment of the valves. The proposed RFP will include the disassembly of each valve, as well as the cleaning and inspecting of all valve components. All as-found conditions will be documented, and the successful bidder will provide drawings for all items to be repaired or manufactured. The District will approve the exact scope of refurbishment based on the inspection findings. However, through the pilot

Funds Available: FY19		Budget Code: WWC/911/7999/2011798/5312
DEPARTMENT SUBMITTING  Wastewater	DEPARTMENT MANAGER or DIRECTOR  <i>Eileen M. White</i> Eileen M. White	APPROVED  <i>Susan R. Cumb</i> General Manager

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project, Unico had already performed a portion of the scope of services on one of the five valves. This would give them an advantage over other bidders if all five valves were included in the RFP. Therefore, it is recommended that the RFP cover only four of the five valves and that a direct award for materials and services be made to Unico for the completion of the refurbishment of the valve Unico already inspected. This project supports the District's Long-Term Infrastructure Investment Strategic Plan goal, specifically to "meet operational needs and reliability goals by effectively maintaining infrastructure."

## **SERVICE PROVIDER SELECTION**

Unico was selected for the pilot project based on their extensive experience working on large valves such as the 42-inch valves at IPS, and their ability as a locally-based company to facilitate work inspection by Maintenance Mechanical supervisory and line staff. In addition, Unico has the capability to do all the refurbishment work in their shop in Benicia, and is nationally known for their expertise in this type of work.

## **SUSTAINABILITY**

### **Economic**

This item is included in the FY19 budget for the Routine Capital Equipment Replacement Project.

### **Social**

The completed P-035 and P-061 forms for the Contract Equity Program are attached.

Refurbishment of the ball valve will increase operational reliability and improve worker safety.

Local 444 was notified of this work on February 13, 2019, and did not raise any specific issues related to this agreement.

### **Environmental**

Refurbishment of the 42-inch diameter ball valve will ensure that the District is able to effectively manage flows and meet all regulatory requirements for protection of public health and the environment.

## **ALTERNATIVES**

**Select an alternate vendor.** This alternative is not recommended. Through the pilot project, Unico has already performed a portion of the scope of services on one of the five valves. This gives them an advantage over other bidders.

Direct Award Refurbishment of One 42-inch Diameter Ball Valve  
May 14, 2019  
Page 3

**Procure five new valves in lieu of refurbishment.** This alternative is not recommended. Based on Unico's inspection, refurbishment of all five valves in lieu of replacement will result in a cost savings of approximately \$500,000.

#### Attachments

P-035 – Contract Equity Program Summary

P-061 – Affirmative Action Summary

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## CONTRACT EQUITY PROGRAM SUMMARY (P-035)

This summary contains information on the contractor's workforce and contract equity participation. (Completed by District)

TITLE				QUOTE NO.: NA		DATE:						
Refurbishment of One 42-Inch Diameter Ball Valve				April 25, 2019								
CONTRACTOR:				PERCENTAGE OF CONTRACT DOLLARS								
Unico Mechanical Corporation (Unico) Sacramento, CA				Direct Award		Availability Group	Contracting Objectives	Participation				
BID/PROPOSER'S PRICE:		FIRM'S OWNERSHIP		White Men		25%	100.0%					
		Ethnicity	Gender	White Women		2%	0.0%					
\$166,037		White	Men	Ethnic Minorities		25%	0.0%					
CONTRACT EQUITY PARTICIPATION												
COMPANY NAME	ESTIMATED AMOUNT	ETHNICITY	GENDER		CONTRACTING PARTICIPATION							
			M	W	White-Men	White-Women	Ethnic Minorities	Unclassified	Publicly Held Corp.	Gov't/Non Profit	Foreign	
PRIME: Unico Mechanical Corporation (Unico)		\$166,037	White	X		100.0%						
SUBS: None												
TOTAL		\$166,037				100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CONTRACTOR'S WORKFORCE PROFILE (From P-025 Form)												
		White Men	White Women	Ethnic Minorities	Total Employees							
No. of Employees:		41	6	36	83							
Percent of Total Employees:		49.4%	7.2%	43.4%								
MSA Labor Market %:		28.0%	23.6%	48.4%								
MSA Labor Market Location:		California										
COMMENTS												
Contract Equity Participation - 100% White Men participation.												
Workforce Profile & Statement of Nondiscrimination Submitted				Good Faith Outreach Efforts Requirement Satisfied				Award Approval Recommended				
NA				NA								





AGENDA NO.  
MEETING DATE

7.  
May 14, 2019

TITLE AGREEMENT AMENDMENT FOR TRENCH SOILS REMOVAL

☒ MOTION                      ☐ RESOLUTION                      ☐ ORDINANCE                     

### RECOMMENDED ACTION

Authorize an amendment to the agreement awarded under Board Motion No. 161-17 on September 26, 2017 with Pacific States Environmental Contractors, Inc. (PSEC) to increase the amount by \$6,306,000 to a total amount not to exceed \$21,306,000 for trench soils removal services.

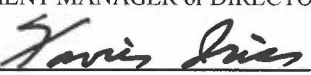

### SUMMARY

In 2017, PSEC was authorized to remove and reuse trench soils from three District storage sites: Briones in Orinda, Miller Road in Castro Valley, and Amador in San Ramon (see attached map). To date, PSEC has removed 290,000 cubic yards (CY) from Briones, 90,000 CY more than originally anticipated. The extra amount was to support the increased pipeline replacement for the Pipeline Rebuild program and reduce the risk of sediment runoff into Briones Reservoir. This amendment allows for additional off-haul of 125,000 CY for a total of 200,000 CY from the Miller Road site. The additional volume will add capacity in support of pipeline repair, replacement, and renewal projects. Off-haul from Miller Road will begin summer 2019. Staff is deferring removal of trench soils from the Amador site until development of a Trench Soils Master Plan.

### DISCUSSION

The Trench Soils Removal Project is part of the ongoing operation and maintenance of District storage sites, which receive and temporarily store trench soils generated from pipeline installation and repair projects throughout the service area. The Project was undertaken by the District as the storage sites were approaching full capacity. The Project scope includes sampling, sorting, off-haul, and reuse of the District's trench soils. District staff is also working concurrently on a Trench Soils Master Plan which will consider ways to more efficiently manage the storage sites and reduce the generation of trench soils.

The work under this contract supports the District's Long-Term Infrastructure Investment Strategic Plan goal by providing necessary maintenance of the sites and ensuring capacity for ongoing District work. This includes an anticipated increase in trench soils generation associated with the growing Pipeline

Funds Available: FY19; CIP #000652; Page 47		Budget Code: WSC/534/2010461/7999/5231
DEPARTMENT SUBMITTING  Engineering and Construction	DEPARTMENT MANAGER or DIRECTOR   Xavier J. Irias	APPROVED   General Manager

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Rebuild Program. The removal of soil will also help with storm water runoff control at the sites, which supports the District's Water Quality and Environmental Protection Strategic Plan goal.

## **SERVICE PROVIDER SELECTION**

The original request for proposal was posted on the District's website. The District received one proposal from PSEC in partnership with Terraphase Engineering and Engineering/Remediation Resources Group, Inc. The District's selection committee chose the PSEC team based on their ability to provide the requested range of services at a fair price compared to previous District contracts.

## **SUSTAINABILITY**

### **Economic**

Funding for this work is available in the FY19 budget for the Trench Spoils Disposal Sites Project.

### **Social**

The completed P-035 and P-061 forms for the Contract Equity Program are attached.

Work under this agreement is subject to the payment of current prevailing wages according to determinations for each craft as established by the Director of Industrial Relations of the State of California.

Local 444 was notified of this agreement on June 8, 2017. Local 444 questions were addressed on July 5, 2017; subsequently, Local 444 did not raise any issues related to this agreement.

Social benefits of this agreement include reuse of trench soils for landfill daily cover and for improvements to a local residential and commercial development.

### **Environmental**

A Notice of Exemption was filed with the Alameda County Clerk on August 9, 2017 and with the Contra Costa County Clerk on August 14, 2017.

## **ALTERNATIVES**

**Do not remove additional trench soils.** This alternative is not recommended. The trench soils storage sites' locations improve the efficiency of District staff during pipeline installation projects by reducing hauling distances. If additional soils are not removed from Miller Road, the site will reach capacity sooner and either require another off-haul contract or force the District to find end-users or disposal facilities for each truck of trench soils generated, both of which would be inefficient and more costly.

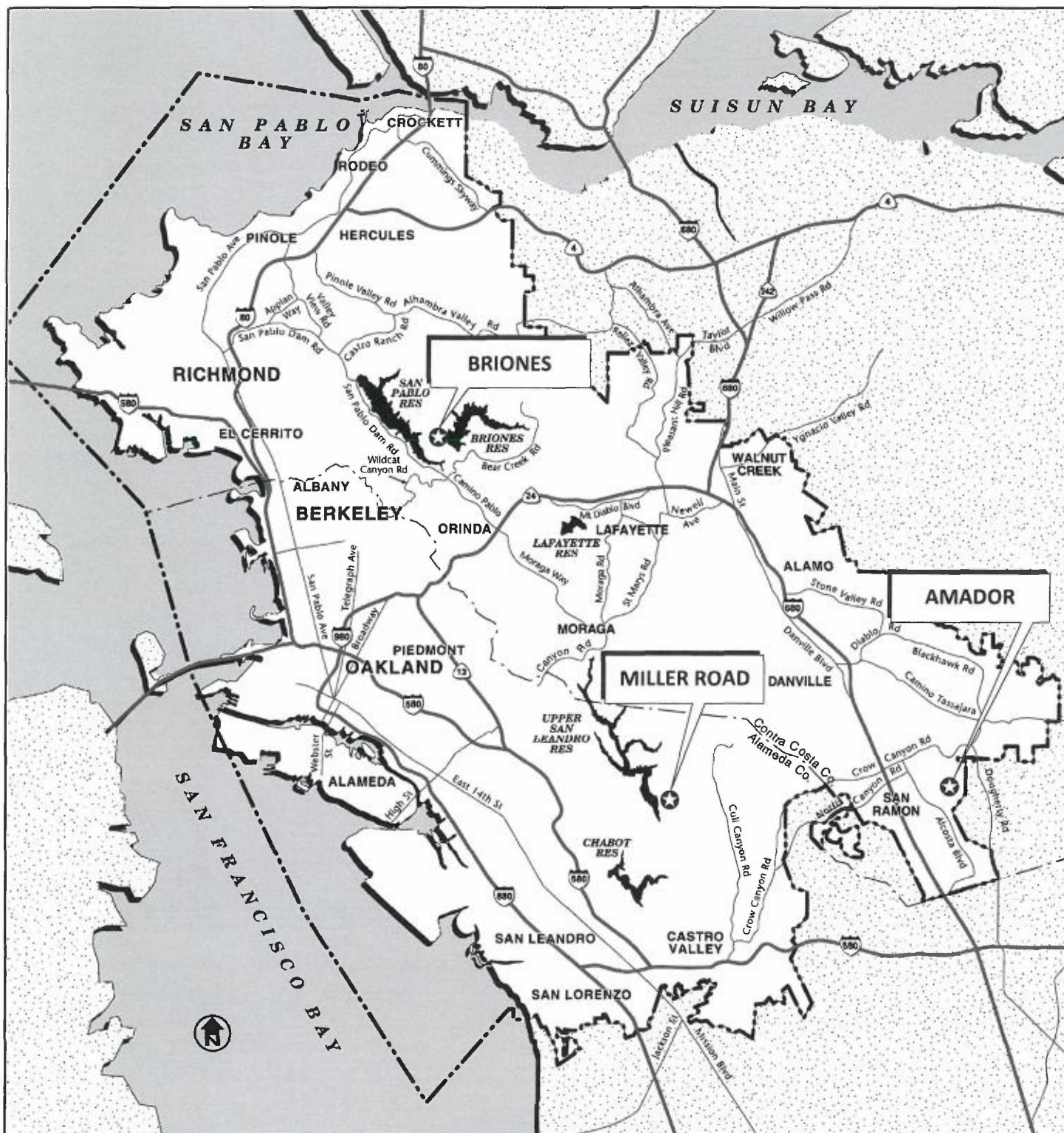
Agreement Amendment for Trench Soils Removal  
May 14, 2019  
Page 3

**Perform the work with District forces.** This alternative is not recommended because the District does not have the staff or equipment to off-haul the volume of trench soils required in the contract.

#### Attachments

Trench Soils Storage Sites Location Map  
P-035 – Contract Equity Program Summary  
P-061 – Affirmative Action Summary

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**EAST BAY MUNICIPAL UTILITY DISTRICT**

**FIGURE 1**  
**TRENCH SOILS STORAGE SITES**

NOT TO SCALE





# CONTRACT EQUITY PROGRAM SUMMARY (P-035)

This summary contains information on the contractor's workforce and contract equity participation. (Completed by District)

<b>TITLE</b> <b>Construction Services Agreement - Amendment</b> <b>Trench Soils Removal and Reuse</b>				<b>DATE:</b> <b>May 7, 2019</b>							
<b>CONTRACTOR:</b> Pacific States Environmental Contractors, Inc. Dublin, CA 94568				<b>Local Business/ Sole Proposer</b>							
				<b>PERCENTAGE OF CONTRACT DOLLARS</b>							
				<b>Availability Group</b>	<b>Contracting Objectives</b>	<b>Participation</b>					
<b>BID/PROPOSER'S PRICE:</b>		<b>FIRM'S OWNERSHIP</b>		<b>White Men</b>	<b>25%</b>	<b>96.8%</b>					
		<b>Ethnicity</b>	<b>Gender</b>	<b>White Women</b>	<b>9%</b>	<b>0.0%</b>					
<b>\$6,306,000 *</b>		<b>White</b>	<b>Men</b>	<b>Ethnic Minorities</b>	<b>25%</b>	<b>3.2%</b>					
<b>CONTRACT EQUITY PARTICIPATION</b>											
<b>COMPANY NAME</b>	<b>ESTIMATED AMOUNT</b>	<b>ETHNICITY</b>	<b>GENDER</b>		<b>CONTRACTING PARTICIPATION</b>						
			<b>M</b>	<b>W</b>	<b>White-Men</b>	<b>White-Women</b>	<b>Ethnic Minorities</b>	<b>Unclassified</b>	<b>Publicly Held Corp.</b>	<b>Gov't/Non Profit</b>	<b>Foreign</b>
<b>PRIME:</b> Pacific States Environmental Contractors, Inc.	<b>\$5,756,000</b>	<b>White</b>	<b>X</b>		<b>91.3%</b>						
<b>SUBS:</b> Engineering/Remediation Resources Group, Inc. (ERRG)	<b>\$200,000</b>	<b>A/PI</b>		<b>X</b>			<b>3.2%</b>				
Terraphase Engineering	<b>\$350,000</b>	<b>White</b>	<b>X</b>		<b>5.6%</b>						
<b>TOTAL</b>		<b>\$6,306,000</b>				<b>96.8%</b>	<b>0.0%</b>	<b>3.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
<b>CONTRACTOR'S WORKFORCE PROFILE (From P-025 Form)</b>											
		<b>White Men</b>	<b>White Women</b>	<b>Ethnic Minorities</b>	<b>Total Employees</b>						
<b>No. of Employees:</b>		<b>38</b>	<b>4</b>	<b>46</b>	<b>88</b>						
<b>Percent of Total Employees:</b>		<b>43.2%</b>	<b>4.5%</b>	<b>52.3%</b>							
<b>MSA Labor Market %:</b>		<b>32.3%</b>	<b>27.8%</b>	<b>39.9%</b>							
<b>MSA Labor Market Location:</b>		<b>9 Bay Area Counties</b>									
<b>COMMENTS</b>											
<b>Contract Equity Participation - 96.8% White Men participation and 3.2% Ethnic Minority participation.</b>											
<b>*Total not to exceed: \$21,306,000 = \$15,000,000 (Original Contract) + \$6,306,000 (Amendment)</b>											
<b>Workforce Profile &amp; Statement of Nondiscrimination Submitted</b>				<b>Good Faith Outreach Efforts Requirement Satisfied</b>				<b>Award Approval Recommended</b>			
<b>NA</b>				<b>YES</b>				<i>Beverly Johnson CW</i>			





AGENDA NO.  
MEETING DATE

8.  
May 14, 2019

**TITLE      WATER SUPPLY ASSESSMENT FOR OAKLAND WATERFRONT BALLPARK  
PROJECT**

☒ MOTION      ☐ RESOLUTION      ☐ ORDINANCE



**RECOMMENDED ACTION**

Approve the Water Supply Assessment (WSA) requested by the City of Oakland (City) for the Oakland Waterfront Ballpark Project (Project) pursuant to California Water Code, Sections 10910-10915.

**SUMMARY**

The Project is located at the Charles P. Howard Terminal and is bounded by Oakland Estuary Middle Harbor to the south, Jack London Square to the east, Embarcadero West to the north, and Schnitzer Steel to the west (see Attachment A). The Project area consists of approximately 55 acres. At build-out, the Project will include a ballpark with 35,000 seats, 582,500 square feet of landscaped irrigation area, 3,000 multi-family housing units, 270,000 square feet of retail/cultural/civic space, 1.5 million square feet of office space, a 400-room hotel with a 50,000-square foot conference room, and a 3,500-seat performance center.

The existing land uses consist primarily of truck parking, container storage and staging, and longshore training facilities with a historical water use of approximately 7,200 gallons per day (GPD). The City provided an estimate of increased average water demand for the Project of approximately 1,616,200 GPD; however, this water demand estimate was based on the City's sanitary sewer flow estimate for the Project which also included wet weather infiltration. This results in an overestimate of potable water demand for the Project's multi-family residential, retail, hotel, office space, and ballpark land uses. Given the District's land use demand approach, system capacity charge studies on similar projects, and various reference data, the District's estimated increase in water demands is 854,400 GPD for the Project at build-out. This demand is accounted for in the District's Urban Water Management Plan (UWMP) 2015. Approval of the WSA by the Board of Directors is required prior to its submittal to the City. The WSA is described in the attached letter (Attachment B) and, upon Board approval, will be sent to the City.

Funds Available: FY		Budget Code:
DEPARTMENT SUBMITTING Engineering and Construction	DEPARTMENT MANAGER or DIRECTOR  Xavier J. Irias	APPROVED  General Manager

Contact the Office of the District Secretary with questions about completing or submitting this form.



## DISCUSSION

On February 21, 2019, the City submitted a formal request for a consultation between the District and the City regarding preparation of a WSA for the Project, pursuant to California Environmental Quality Act Guidelines, Section 15155, and California Water Code, Sections 10910-10915. The Project, for which an Environmental Impact Report is being prepared, meets the threshold requirement for an assessment of water supply availability based on the amount of water this Project would require, which is greater than the amount of water required by a 500-dwelling-unit project. The City is required to consult with the public water supplier to determine whether the water demand associated with the Project was included in its last UWMP and to assess whether its 20-year water supply (available during normal, single-dry and multiple-dry water years) will meet the water demand associated with the Project.

The UWMP 2015 concludes that the District has, and will have, adequate water supplies to serve existing and projected demands within the Ultimate Service Boundary during normal and wet years but that deficits are projected for drought years. During multi-year droughts, the District may require significant customer water use reductions and may also need to acquire supplemental supplies to meet customer demand. The UWMP 2015 includes Drought Management Program (DMP) Guidelines that establish the level of water use restrictions the District may implement under varying conditions. Under the DMP Guidelines, water use restrictions may be determined based upon either projected end-of-September Total System Storage (TSS) or water use restriction mandates from the State Water Resources Control Board. When state-mandated water use restrictions exceed the reductions that would otherwise be called for based upon the end-of-September TSS, the District's water use reduction requirements may be guided by the applicable state mandates. Under either scenario, while the District strives to keep water use reductions at or below 15 percent, if the drought is severe, mandatory water use reductions could exceed 15 percent.

The Project will be subject to the same drought restrictions that apply to all District customers. In addition, the proposed Project will be subject to District regulations aimed at encouraging efficient water use, such as Sections 29 and 31 of the District's Regulations Governing Water Service. Section 29, "Water Use Restrictions," promotes efficient water use by District customers and prohibits certain uses of potable water. Section 31, "Water Efficiency Requirements," identifies the types of water efficiency requirements (i.e., maximum flow rates for flow control devices) for water service.

The WSA letter requests that the City comply with the California Code of Regulations concerning water-efficient landscapes and District water service regulations, including compliance with Sections 29 and 31, described above, in force at the time the application is made. The District also requests a meeting to discuss water conservation opportunities in the Project area, which will identify timely opportunities to maximize water conservation and identify District programs, as well as state and federal best management practices applicable to the Project.

Portions of the Project area are located within and around the recycled water pipeline infrastructure of the East Bayshore Recycled Water Project service area. As part of its long-term water supply planning, the District will consider the feasibility of providing recycled water to the project area for appropriate

uses including landscape irrigation and commercial uses, as well as toilet and urinal flushing in non-residential buildings. The District recommends the City and developers maintain continued coordination and consultation with the District about recycled water feasibility as they plan and implement the various components of the Project.

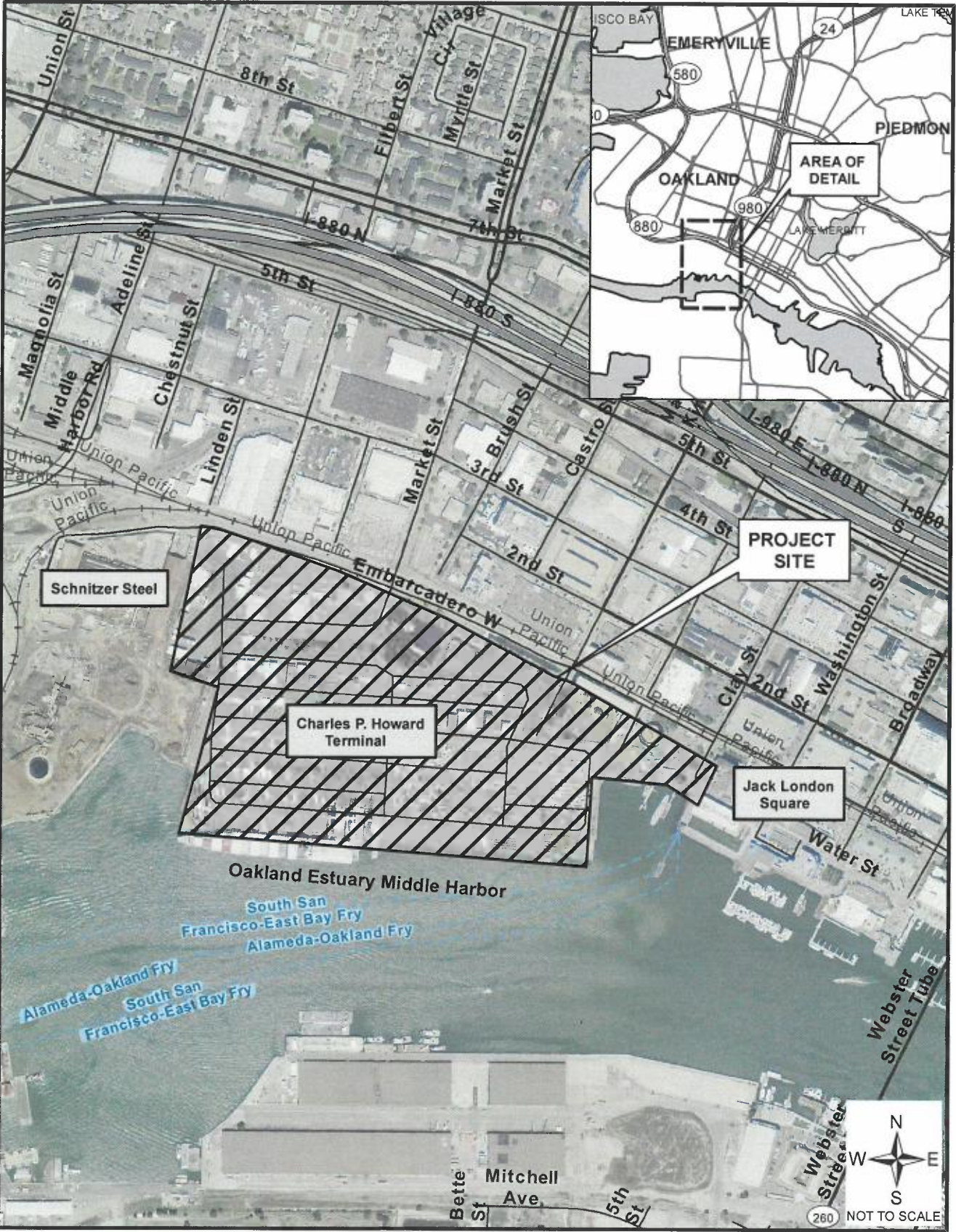
## **ALTERNATIVE**

**Do not submit a response.** This alternative is not recommended. This WSA has been prepared pursuant to California Water Code, Sections 10910-10915 and is consistent with the law and the District's past WSAs.

## **Attachments**

- A. Map – Oakland Waterfront Ballpark Project
- B. District's Response to February 21, 2019 Water Supply Assessment Request







**DRAFT**

May 14, 2019

Peterson Vollmann, Planner IV  
City of Oakland  
Dalziel Building  
250 Frank H. Ogawa Plaza, Suite 3315  
Oakland, CA 94612

Re: Water Supply Assessment – Oakland Waterfront Ballpark Project

Dear Mr. Vollmann:

This letter is in response to your request dated February 21, 2019, for water agency consultation (Enclosure 1) concerning the Water Supply Assessment (WSA) for the Oakland Waterfront Ballpark Project (Project), located in the City of Oakland (City), which is within East Bay Municipal Utility District's (EBMUD's) Ultimate Service Boundary. EBMUD appreciates the opportunity to provide this response.

Pursuant to Sections 10910-10915 of the California Water Code, the Project meets the threshold requirement for an assessment of water supply availability based on the amount of water this Project would require, which is greater than the amount of water required by a 500-dwelling-unit project.

Please note this WSA addresses the issue of water supply only and is not a guarantee of service; future water service is subject to the rates and regulations in effect at that time.

### **Project Demand**

The water demand for the Project is accounted for in EBMUD's water demand projections, as published in EBMUD's Urban Water Management Plan (UWMP) 2015 (Enclosure 2). EBMUD's water demand projections account for anticipated future water demands within EBMUD's service boundaries and for variations in demand-attributed changes in development patterns. The historical water use in the Project area is approximately 7,200 gallons per day (GPD). The City provided an estimate of increased average water demand for the Project of approximately 1,616,200 GPD; however, this water demand estimate was based on the City's sanitary sewer flow estimate which also included wet weather infiltration. This results in an overestimate of potable water demands for multi-family residential, retail, hotel, office space, and ballpark land uses. Given EBMUD's land-use demands approach, system capacity charge studies on similar projects, and various reference data, EBMUD's estimated increase in water demands is 854,400 GPD for the Project at build-out.

EBMUD's demand projections indicate both densification and land use changes in a few existing land use classifications, including commercial and residential land use areas. These changes increase demand for EBMUD water. EBMUD's UWMP 2015 projects water demands over time, accounting for estimated variations in demand usage minus conservation and recycled supply sources, as noted in the UWMP 2015, Table 4-1, Mid-Cycle Demand Projections (Table 1). Typically, EBMUD prepares a full demand study every ten years; the most recent version, the 2040 Demand Study, was completed in 2009. For planning purposes, water demands are estimated in five-year increments, but it is recognized that actual incremental amounts may occur stepwise in shorter time increments. An increase in usage by one customer in a particular customer class does not require a strict gallon-for-gallon increase in conservation by other customers in that class, as, in actuality, the amount of potable demand, conservation and recycled water use EBMUD-wide will vary somewhat. In 2014, EBMUD prepared the Mid-Cycle Demand Assessment (MCDA) in order to assess any significant effects on metered water consumption caused by the 2008-2010 drought, and the economic downturn that affected growth in the Bay Area. As part of the MCDA, EBMUD reviewed recently updated city and county general plans for significant changes since the 2040 Demand Study, and held meetings with representatives from the cities of Alameda, Oakland, Richmond and San Ramon. The MCDA concluded that, while the cities and counties might reach their build-out goals later than originally anticipated, they would still reach these goals by 2040. Accordingly, the MCDA validated the 2040 Demand Study, as demands are expected to gradually increase back to 2040 projected levels as development and water use return to pre-drought and pre-recession conditions. EBMUD plans to complete another comprehensive demand study in 2019 with a long-term horizon of 2050. As part of the demand study, EBMUD will reach out to each city and county in the service area to ask about projected development and future land-use changes. The study results will be incorporated into the UWMP 2020.

**Table 1**  
**Mid-Cycle Demand Projections (UWMP 2015, Table 4-1)**

TABLE 4-1 AVERAGE ANNUAL DEMAND (MGD)	MID-CYCLE DEMAND PROJECTIONS					
	2015	2020	2025	2030	2035	2040
PROJECTED TOTAL DEMAND	232	267	276	290	304	312
CONSERVATION <sup>1</sup>	-33	-39	-44	-51	-57	-62
NON-POTABLE WATER <sup>1,2</sup>	-9	-11	-14	-17	-18	-20
PLANNING LEVEL OF DEMAND	190	217	218	222	229	230

<sup>1</sup> See Chapters 6 and 7 for more discussion of water recycling and conservation, respectively.  
<sup>2</sup> Non-potable water includes recycled water and raw water projects.

## Project Area

The Project is located at the Charles P. Howard Terminal and is bounded by Oakland Estuary Middle Harbor to the south, Jack London Square to the east, Embarcadero West to the north, and Schnitzer Steel to the west.

The Project area consists of approximately 55 acres. At build-out, the Project will include, a ballpark with 35,000 seats, 582,500 square feet of landscaped irrigation area, 3,000 multi-family housing units, 270,000 square feet of retail/cultural/civic space, 1.5 million square feet of office



space, a 400-room hotel with a 50,000 square-foot conference room, and a 3,500-seat performance center.

### **EBMUD Water Demand Projections**

Since the 1970s, water demand within EBMUD's service area has ranged from 200 to 220 million gallons per day (MGD) in non-drought years. Section 4.1 of the UWMP 2015 outlines past and current EBMUD water demand, including Figure 4-1 which shows historic water use (including metered and unmetered demands) within EBMUD's service area, along with the number of customer accounts. The 2040 water demand forecast of 312 MGD for EBMUD's service area can be reduced to 230 MGD with the successful implementation of water recycling and conservation programs, as outlined in the UWMP 2015. Current demand is lower than estimated in the MCDA as a result of the recent multi-year drought. This is because the planning level of demand may differ from the actual demand in any given year due to water use reductions that typically occur during droughts. After droughts, a rebound effect is expected wherein demand rises back to projected levels. Thus, the MCDA still reflects a reasonable expectation for demand in year 2040, as the demands are expected to gradually increase back to 2040 projected demand levels as development and water use return to pre-drought and pre-recession conditions. The proposed Project's future development and operations will not change EBMUD's 2040 demand projection.

### **EBMUD Water Supply, Water Rights and the UWMP 2015**

EBMUD has water right permits and licenses that allow for delivery of up to a maximum of 325 MGD from the Mokelumne River, subject to the availability of Mokelumne River runoff and the senior water rights of other users. EBMUD's position in the hierarchy of Mokelumne River water users is determined by a variety of agreements between Mokelumne River water right holders and the terms of the appropriative water right permits and licenses.

Conditions that could, depending on hydrology, restrict EBMUD's ability to receive its full entitlement include:

- Upstream water use by senior water right holders.
- Downstream water use by riparian and senior appropriators and other downstream obligations, including protection of public trust resources.
- Variability in precipitation and runoff.

During prolonged droughts, the Mokelumne River supply cannot meet EBMUD's projected customer demands. To address this, EBMUD has completed construction of the Freeport Regional Water Facility and the Bayside Groundwater Project Phase 1, which are discussed below in the Supplemental Water Supply and Demand Management section of this assessment. EBMUD has obtained and continues to seek supplemental supplies.

The UWMP 2015, adopted on June 28, 2016 by EBMUD's Board of Directors under Resolution No. 34092-16, is a long-range planning document used to assess current and projected water usage, water supply planning, and conservation and recycling efforts. EBMUD's water supply

sources are discussed in Section 1.5.1 of the UWMP 2015. EBMUD's main water supply is the Mokelumne River, and EBMUD has rights to receive up to 325 MGD of water from this source subject to the availability of runoff, senior water rights of other users, and downstream fishery flow requirements. EBMUD also has a Long-Term Renewal Contract (Contract No. 14-06-200-5183A-LTR1) with the United States (U.S.) Bureau of Reclamation to receive water from the Central Valley Project (CVP) through the Freeport Regional Water Facility in years when EBMUD's water supplies are relatively low (for more details, see Section 3.3.2 of the UWMP 2015). During some dry years, EBMUD may purchase water transfers to help meet customer demands. Section 5.1 of the UWMP 2015 discusses EBMUD's water transfer program.

EBMUD maintains a biennial budget and five-year capital improvement program to optimize investments and maximize drinking water quality, and the reliability, safety, flexibility, and overall efficiency of the water supply system. EBMUD's most recently adopted budget, which includes capital expenditures for the delivery of water supplies to its customers, can be found at <http://www.ebmud.com/about-us/investors/budget-and-rates/>.

EBMUD complies with applicable local, state, and federal regulations in the operation of its water supply system. Figure 1-4 of the UWMP 2015 illustrates the numerous local, state, and federal agencies that may regulate EBMUD's facilities and operations.

A summary of EBMUD's demand and supply projections, in five-year increments, for a 25-year planning horizon is provided in UWMP 2015, Table 4-5, Preliminary EBMUD Baseline Supply and Demand Analysis (Table 2).

EBMUD's evaluation of water supply availability accounts for the diversions of both upstream and downstream water right holders and fishery releases on the Mokelumne River. Fishery releases are based on the requirements of a 1998 Joint Settlement Agreement (JSA) between EBMUD, U.S. Fish and Wildlife Service, and the California Department of Fish and Wildlife. The JSA requires EBMUD to make minimum flow releases from its reservoirs to the lower Mokelumne River to protect and enhance the fishery resources and ecosystem of the river. As this water is released downriver, it is, therefore, not available for use by EBMUD's customers.



**Table 2**  
**Preliminary EBMUD Baseline Supply and Demand Analysis (UWMP 2015, Table 4-5)**

<b>TABLE 4-5</b>		<b>PRELIMINARY EBMUD BASELINE SUPPLY &amp; DEMAND ANALYSIS</b>					
<b>SUPPLY AND DEMAND COMPARISON - NORMAL YEAR (MGD)</b>		2015	2020	2025	2030	2035	2040
<b>MOKELUMNE SYSTEM</b>		>190	>217	>218	>222	>229	>230
<b>DEMAND TOTALS</b>		190	217	218	222	229	230
<b>DIFFERENCE</b>		0	0	0	0	0	0
<b>DRY YEAR RESULTS FROM EBMUDSIM (MGD)</b>		2015	2020	2025	2030	2035	2040
<b>SINGLE DRY YEAR OR FIRST YEAR OF MULTI-YEAR DROUGHT</b>	<b>MOKELUMNE SYSTEM</b>	145	169	170	173	179	179
	<b>CVP SUPPLIES<sup>2</sup></b>	36	35	35	35	35	35
	<b>BAYSIDE<sup>3</sup></b>	0	0	0	0	0	0
	<b>SUPPLY TOTALS</b>	181	204	205	209	214	215
	<b>PLANNING LEVEL DEMAND<sup>1</sup></b>	190	217	218	222	229	230
	<b>RATIONING<sup>4</sup></b>	5%	6%	6%	6%	7%	7%
	<b>DEMAND TOTALS</b>	180	203	204	208	213	214
	<b>NEED FOR WATER (TAF)<sup>5</sup></b>	0	0	0	0	0	0
<b>SECOND YEAR</b>	<b>MOKELUMNE SYSTEM</b>	81	103	103	107	112	113
	<b>CVP SUPPLIES<sup>2</sup></b>	71	71	71	71	71	71
	<b>BAYSIDE<sup>3</sup></b>	0	0	0	0	0	0
	<b>SUPPLY TOTALS</b>	152	174	174	178	183	184
	<b>PLANNING LEVEL DEMAND<sup>1</sup></b>	190	217	218	222	229	230
	<b>RATIONING<sup>4</sup></b>	20%	20%	20%	20%	20%	20%
	<b>DEMAND TOTALS</b>	152	174	175	178	184	185
	<b>NEED FOR WATER (TAF)<sup>5</sup></b>	0	0	0	0	0	0
<b>THIRD YEAR</b>	<b>MOKELUMNE SYSTEM</b>	111	132	132	125	120	104
	<b>CVP SUPPLIES<sup>2</sup></b>	40	40	40	40	40	40
	<b>BAYSIDE<sup>3</sup></b>	1	1	1	1	1	1
	<b>SUPPLY TOTALS</b>	152	174	173	166	162	145
	<b>PLANNING LEVEL DEMAND<sup>1</sup></b>	190	217	218	222	229	230
	<b>RATIONING<sup>4</sup></b>	20%	20%	20%	20%	20%	20%
	<b>DEMAND TOTALS</b>	152	174	174	178	183	184
	<b>NEED FOR WATER (TAF)<sup>5</sup></b>	0	0	2	13	24	48

1. Planning Level of Demand accounts for projected savings from water recycling and conservation programs as discussed in Chapters 6 and 7 respectively. Customer demand values are based on the Mid Cycle Demand Assessment, October 2014.
2. Projected available CVP supplies are taken according to the Drought Management Program Guidelines discussed in Chapter 3.
3. For the purposes of this modeling effort, it is assumed that the Bayside Groundwater Project would be brought online in the third year of a drought.
4. Rationing reduction goals are determined according to projected system storage levels in the Drought Management Program Guidelines discussed in Chapter 3.
5. Need for Water includes unmet customer demand as well as shortages on the Lower Mokelumne River.

The available supply and demand shown in Table 2 were derived from EBMUD's baseline hydrologic model with the following assumptions:

- Customer demand values are based on the MCDA, and planning-level demands account for projected savings from water recycling and conservation programs.
- EBMUD Drought Planning Sequence assumes water years 1976, 1977 and a modified 1978 hydrology.
- Total system storage is depleted by the end of the third year of the drought.
- EBMUD will implement its Drought Management Program (DMP) when necessary.

- The diversions by Amador and Calaveras Counties upstream of Pardee Reservoir will increase over time, eventually reaching the full extent of their senior rights.
- Releases are made to meet the requirements of senior downstream water right holders and fishery releases, as required by the JSA.
- EBMUD allocation of CVP supply is available the first year of a drought and subsequent drought years, according to the U.S. Bureau of Reclamation's Municipal and Industrial Shortage Policy.
- The Bayside Groundwater Project Phase 1 is available and brought online in the third year of a drought.

The UWMP 2015 concludes that EBMUD has, and will have, adequate water supplies to serve existing and projected demand within the Ultimate Service Boundary during normal and wet years, but that deficits are projected for multi-year droughts. During multi-year droughts, EBMUD may require significant customer water use reductions and may also need to acquire supplemental supplies to meet customer demand.

As discussed under the DMP Guidelines section in Chapter 3 of the UWMP 2015, EBMUD's system storage generally allows EBMUD to continue serving its customers during dry-year events. EBMUD typically imposes water use restrictions based on the projected storage available at the end of September and, based on recent changes to its DMP Guidelines (summarized below), may also implement water use restrictions in response to a State of California mandate. By imposing water use restrictions in the first dry year of potential drought periods, EBMUD attempts to minimize water use restrictions in subsequent years if a drought persists. Throughout dry periods, EBMUD must continue to meet its current and subsequent-year fishery flow release requirements and obligations to downstream agencies.

The UWMP 2015 includes DMP Guidelines that establish the level of water use restrictions EBMUD may implement under varying conditions. Under the DMP Guidelines, water use restrictions may be determined based upon either projected end-of-September Total System Storage (TSS) or water use restriction mandates from the State Water Resources Control Board. When state-mandated water use restrictions exceed the reductions that would otherwise be called for based upon end-of-September TSS, EBMUD's water use reduction requirements may be guided by the applicable state mandates. Under either scenario, while EBMUD strives to keep water use reductions at or below 15 percent, if the drought is severe, mandatory water use reductions could exceed 15 percent.

Despite water savings from EBMUD's aggressive conservation and recycling programs and water use restrictions called for in the DMP Guidelines, supplemental supplies are still needed in significant, severe, and critical droughts. The proposed Project will be subject to the same drought restrictions that apply to all EBMUD customers. In addition, the proposed Project will be subject to EBMUD's regulations aimed at encouraging efficient water use, such as Sections 29 and 31 of EBMUD's Regulations Governing Water Service. Section 29, "Water Use Restrictions," promotes efficient water use by EBMUD customers and prohibits certain uses of potable water. Section 31, "Water Efficiency Requirements," identifies the types of water efficiency requirements (i.e., maximum flow rates for flow control devices) for water service.



## **Supplemental Water Supply and Demand Management**

The goals of meeting projected water needs and increased water reliability rely on supplemental supplies, improving reliability of existing water supply facilities, water conservation and recycled water programs.

By 2011, EBMUD completed construction of the Freeport Regional Water Facility and the Bayside Groundwater Project Phase 1 to augment its water supply during drought periods. However, additional supplemental supplies beyond those provided through these facilities will still be needed, as noted above. Chapter 5 of the UWMP 2015 describes potential supplemental water supply projects that could be implemented to meet projected long-term water demands during multi-year drought periods.

The Freeport Regional Water Facility became operational in February 2011. EBMUD's ability to take delivery of CVP water through the Freeport Regional Water Facility is based on its Long Term Renewal Contract (LTRC) with the U.S. Bureau of Reclamation. The LTRC provides for up to 133,000 acre feet of CVP supply in a single dry year, not to exceed a total of 165,000 acre feet in three consecutive dry years. Under the LTRC, the CVP supply is available to EBMUD only in dry years when EBMUD's total stored water supply is forecast to be below 500,000 total acre feet on September 30 of each year.

EBMUD is developing the Bayside Groundwater Project in phases to provide a source of supplemental supply in dry years. Construction of the first phase (Bayside Groundwater Project Phase 1) was completed in 2010, allowing EBMUD to inject treated potable water into a deep aquifer in the South East Bay Plain Groundwater Basin for later extraction, treatment, and use during severe droughts. A permit from the Department of Public Health is required before the groundwater can be extracted and treated for municipal use. As described in Chapter 4 of the UWMP 2015, EBMUD's drought planning calls for using the Bayside Groundwater Project Phase 1 during the third year of multi-year droughts to provide up to 1 MGD of water to meet customer demands. Additional information on the Bayside Groundwater Project can be found in Section 5.3 and Appendix E of the UWMP 2015.

Chapter 5 of the UWMP 2015 also lists other potential supplemental water projects, including Northern California water transfers, Bayside Groundwater Project Expansion, expansion of Contra Costa Water District's Los Vaqueros Reservoir, and others that could be implemented to meet the projected long-term water supplemental need during multi-year drought periods. The UWMP 2015 identifies a broad mix of projects, with inherent scalability and the ability to adjust implementation schedules for particular components, which will allow EBMUD to pursue the necessary supplemental supplies while minimizing the risks associated with future uncertainties, such as project implementation challenges and global climate change. The Environmental Impact Report that EBMUD certified for the Water Supply Management Program 2040 examined the impacts of pursuing these supplemental supply projects at a program level. Separate project-level environmental documentation will be prepared, as appropriate, for specific components as they are developed in further detail and implemented in accordance with EBMUD's water supply needs.

In addition to pursuing supplemental water supply sources, EBMUD also maximizes resources through continuous improvements in the delivery and transmission of available water supplies and investments in ensuring the safety of its existing water supply facilities. These programs, along with emergency interties and planned water recycling and conservation efforts, would ensure a reliable water supply to meet projected demands for current and future EBMUD customers within the current service area.

### **Water Conservation and Recycled Water Considerations**

The proposed Project presents opportunities to incorporate water conservation measures. Conditions of approval for the implementation of the proposed Project should require that the Project comply with the California Model Water Efficient Landscape Ordinance (Division 2, Title 23, California Code of Regulations, Chapter 2.7, Sections 490 through 495). EBMUD staff would appreciate the opportunity to meet with the City to discuss conservation measures. This meeting will explore early opportunities to expand water conservation via EBMUD's conservation programs and best management practices applicable to the Project.

Conservation strategies will be required to achieve water use reduction goals and restrictions, including compliance with Sections 29 and 31, described above, of EBMUD's Regulations Governing Water Service, and the Water Conservation Act of 2009. The Water Conservation Act of 2009 sets an overall goal of reducing per capita urban water use by 20 percent by December 31, 2020.

Portions of the Project area are located within and around the recycled water pipeline infrastructure of the East Bayshore Recycled Water Project service area. As part of its long-term water supply planning, EBMUD will consider the feasibility of providing recycled water to the project area for appropriate uses including landscape irrigation and commercial uses, as well as toilet and urinal flushing in non-residential buildings. EBMUD recommends the City and developers maintain continued coordination and consultation with EBMUD about recycled water feasibility as they plan and implement the various components of the Project.

The Project sponsor should contact Jennifer L. McGregor, Senior Civil Engineer, at (510) 287-1030 for further information.

Sincerely,

David J. Rehnstrom  
Manager of Water Distribution Planning Division

DJR:JML:nl  
sb19\_052b\_Oakland Waterfront Ballpark\_WSA\_Letter

Peterson Volmann, Planner IV  
May 14, 2019  
Page 9

**DRAFT**

Enclosures: 1. Letter of Request for Water Supply Assessment dated February 21, 2019  
2. EBMUD Urban Water Management Plan 2015

cc: Board of Directors w/o Enclosure 2





RECEIVED

FEB 25 2019

WATER SERVICE PLANNING  
CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND,  
CALIFORNIA 94612

Planning and Building Department  
Bureau of Planning

(510) 238-3941  
FAX (510) 238-6538  
TDD (510) 238-3254

February 21, 2019

David J. Rehnstrom  
Manager of Water Distribution Planning  
EBMUD  
375 Eleventh Street  
Oakland, CA 94607-4240

The City of Oakland is preparing the Environmental Impact Report (EIR) for the proposed Oakland Waterfront Ballpark Project. The proposed Project location is the Charles P. Howard Terminal (Howard Terminal) and adjacent properties in the southwestern area of Oakland, California. Existing regional freeway access to the Project site exists via Interstate 880 (I-880) and Interstate 980 (I-980). Existing hardscape and at-grade drainage facilities are located at the surface, and it is understood that the site has existing utility infrastructure to support the current Port of Oakland operations, including water, power, storm drain and sewer. The site is currently serviced by two waterlines, one from Market Street and one from Martin Luther King Jr. Way. There is also a service line located along the north frontage of the site in Embarcadero West, from Jefferson Street to Clay Street. Recycled water is not available to the Project site at this time.

The proposed Project would be developed in phases, with Phase 1 including the Oakland A's ballpark, hotel, performance center, and mixed use development. The A's intend to construct the primary streets, backbone infrastructure and site grading for initial development in Phase 1, and individual development block(s) may sell to one or more individuals developers over time. After Phase 1, the pace of buildout of the Project site will be dependent on market demand, financial feasibility, construction practicalities, as well as development agreement terms between the developer and the City and Port. Construction of development phases after Phase 1 could overlap to accommodate construction schedules and other constraints or opportunities. The Project development includes residential, commercial/retail, open space, and recreation uses. Details on the Project's development program in terms of unit count and square footage by specific land use type are included in **Attachment A**, Howard Terminal CEQA Program. The Project's estimated water and wastewater demands are provided in **Attachment B**.

With this letter, the City of Oakland is requesting a Water Supply Assessment for the Project in accordance with the California Environmental Quality Act (CEQA) Guidelines Section 15083.5 that requires consultation with EBMUD for projects within its service area. The City of Oakland requests

EBMUD provide the necessary WSA to verify EBMUD's capability to deliver water supplies sufficient to meet the demands of the Project and to determine if the proposed increase in water demand would require new or expanded water supply facilities.

If you have any questions, please contact me at (510) 238-6167 or at email address [pvollmann@oaklandca.gov](mailto:pvollmann@oaklandca.gov). Thank you for your assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Vollmann', with a long horizontal line extending to the right.

Peterson Vollmann, Planner IV  
City of Oakland | Bureau of Planning

Attachments

- A. Likely Development Scenario
- B. Estimated Wastewater Demands



Likely Development Scenario - Full Buildout

Use (total)	Total	Program Sq. Ft.	Parking Ratio	Parking Spaces	Parking Sq. Ft.	Total Sq. Ft.	Comments
Ballpark (capacity)	35,000	1,200,000	Flat rate	2,000	600,000	1,800,000	
Residential (units)	3,000	3,300,000	1/unit	3,000	900,000	4,200,000	
Office (sf)	1,500,000	1,500,000	2/1,000 sf	3,000	900,000	2,400,000	
Retail/Cultural/Civic (sf)	270,000	270,000	2.6/1,000 sf	700	210,000	480,000	
Hotel (rooms)	400	280,000	0.5/room	200	60,000	340,000	
Performance Center (capacity)	3,500	50,000	Shared	-	-	50,000	Shared parking with the Ballpark parking spaces
<b>Total</b>	-	<b>6,600,000</b>	-	<b>8,900</b>	<b>2,670,000</b>	<b>9,270,000</b>	-

Likely Development Scenario - Phase 1

Use (total)	Total	Program Sq. Ft.	Parking Ratio	Parking Spaces	Parking Sq. Ft.	Total Sq. Ft.	Comments
Ballpark (capacity)	35,000	1,200,000	Flat rate	3,500	1,050,000	2,250,000	3,500 interim parking stalls
Residential (units)	540	624,000	1/unit	540	162,000	786,000	
Office (sf)	250,000	250,000	2/1,000 sf	500	150,000	400,000	
Retail/Cultural/Civic (sf)	30,000	30,000	Shared	-	-	30,000	
Hotel (rooms)	400	280,000	0.5/room	200	60,000	340,000	
<b>Total</b>	-	<b>2,384,000</b>	-	<b>4,740</b>	<b>1,422,000</b>	<b>3,806,000</b>	-

Notes:

1 - Parking sq. footage assumes 300 sq. ft. per space

Attachment A

Total Plumbing Demands		Sewer			Infiltration (1000 gpd/ac)		Sewer totals		Water	Gas
	Square Footage	Units or Capacity	Demand/SF	Demand/Unit	Demand (gpd)	Demand (gpd)	(gpd)	(gpd)	(gpd)	
Residential	3,300,000	3,000	N/A	250	750,000	75,758	825,758	825,758	825,758	362,000 cfh
Office	1,500,000	N/A	0.2	N/A	300,000	34,435	334,435	334,435	334,435	12,500 cfh
Retail/Cultural/Civic	270,000	N/A	0.15	N/A	40,500	6,198	46,698	46,698	46,698	20,000 cfh
Hotel	280,000	400	N/A	150	60,000	6,428	66,428	66,428	66,428	9,100 cfh
Hotel Conference Room	50,000	3,333	N/A	5	16,667	Included in Hotel	16,667	16,667	16,667	Included in Hotel
Performance Center	50,000	3,500	N/A	5	17,500	1,148	18,648	18,648	18,648	2,000 cfh
Ballpark	1,200,000	35,000	N/A	8	280,000	27,548	307,548	307,548	307,548	43,000 cfh
					Avg Day		1,616,182	1,616,182		
					Peaking Factor		3.75	3.75		4
					Peak Hour		6,060,682	6,060,682		6,464,727

## Phase 1 Demands

		Sewer			Infiltration (1000 gpd/ac)		Sewer totals		Water
	Square Footage	Units or Capacity	Demand/SF	Demand/Unit	Demand (gpd)	Demand (gpd)	(gpd)	(gpd)	Daily (gpd)
Residential	624,000	540	N/A	250	135,000	14,325	149,325	149,325	149,325
Office	250,000	N/A	0.2	N/A	50,000	5,739	55,739	55,739	55,739
Retail/Cultural/Civic	30,000	N/A	0.15	N/A	4,500	689	5,189	5,189	5,189
Hotel	280,000	400	N/A	150	60,000	6,428	66,428	66,428	66,428
Hotel Conference Room	50,000	3,333	N/A	5	16,667	Included in Hotel	16,667	16,667	16,667
Ballpark	1,200,000	35,000	N/A	8	280,000	27,548	307,548	307,548	307,548
					Avg Day		600,896	600,896	600,896
					Peaking Factor		3.75	3.75	4
					Peak Hour		2,253,359	2,253,359	2,403,583

## Notes:

1. Demands per unit values taken from the City of Oakland Sanitary Sewer Design Standards, Revised August 2008, Table 1 - Average Flow Rate on Specific Developments
2. Infiltration calculated as gpd/acre because LF of sanitary sewer piping is not yet known.
3. For Ballpark, daily loads are game days. Assume 35,000 staff and attendees, 100 players/coaches.
4. For Performance Center, daily loads are event days.
5. Gas demands have been provided by Meyers+ Engineers.
6. Water demand estimates are shown. EBMUD demand estimates may be lower than amounts shown.

## Attachment B



AGENDA NO. 9.1 - 9.2  
MEETING DATE May 14, 2019

TITLE SALE OF SURPLUS PROPERTY - PUNCHBOWL RESERVOIR

☐ MOTION ☒ RESOLUTION ☐ ORDINANCE

### RECOMMENDED ACTION

1. Approve the sale of the Punchbowl Reservoir property in Oakland, as shown on the attached Exhibit "A," to Mr. Minh Doan for the price of \$505,000; and
2. Authorize District staff to execute the Property Purchase Agreement and Joint Escrow Instructions ("Agreement") for the sale of the property to Mr. Minh Doan.

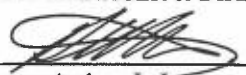
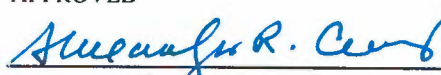
### SUMMARY

The Punchbowl Reservoir property is approximately 0.54 acres and located off Redwood Road in Oakland. The District acquired the property in three transactions over multiple years. The first two (PROP 493 and PROP 511) sections were purchased in 1953, and the third (PROP 601) was acquired in 2007 as part of a boundary line adjustment. However, the need to build the reservoir at this location never materialized due to the patterns of residential growth. The District no longer foresees a use for this property and has placed it on the surplus property list. Selling the property eliminates costs associated with maintaining the site, including ownership liability.

### DISCUSSION

The District has owned the Punchbowl Reservoir property since 1953 and the property remains unimproved. In April 2017, pursuant to California Government Code Section 65402, the District notified the City of Oakland of the District's intent to sell the property and requested a determination that the proposed sale conforms to the City's General Plan. The City responded in May 2017, stating that the property was zoned RH-4 (Hillside Residential, Zone 4) and the General Plan designation was Hillside Residential.

In June of 2017, pursuant to California Government Code Section 54222, the District notified the California Natural Resources Agency, City of Oakland Parks & Recreation, Alameda County Public Works, City of Oakland Public Works, City of Oakland Human Services, East Bay

Funds Available: FY19		Budget Code: 115-8712-5316
DEPARTMENT SUBMITTING <u>Customer and Community Svcs.</u>	DEPARTMENT MANAGER or DIRECTOR  Andrew L. Lee	APPROVED  General Manager

Contact the Office of the District Secretary with questions about completing or submitting this form.



Regional Park District, Oakland Housing Authority, Housing Authority of Alameda County and the Oakland Unified School District of the property's availability. No agency expressed an interest in the property.

In 2018, District staff successfully removed an easement which would have depressed the value of the property. After removing the easement, District staff contracted with a third-party appraiser to determine the fair market value of the property. The appraiser determined the best use for the property was residential development.

Accordingly, the appraiser established the value of the property on an as-is basis at \$325,000. The property was advertised for sale at the appraised value on the residential multiple listings and commercial real estate sites. In response, Mr. Minh Doan, a private developer, offered an all-cash offer of \$505,000. Mr. Doan plans to build two houses on the property. He has contacted the owners of the adjacent properties who welcomed his approach to developing the property.

The District received a non-refundable \$10,000 deposit with the offer. Upon Board approval of the sale, and execution of the Property Purchase Agreement and Joint Escrow Instructions by the Manager of Real Estate Services, the Buyer will have 30 days to complete the transaction.

## **SUSTAINABILITY**

### **Economic**

The offer selected by the District is an all-cash offer above the fair-market value for the property. If approved by the Board, the District will receive \$505,000 of revenue in fiscal year 2019. In addition, the District will no longer incur ongoing maintenance costs, and will eliminate the liability inherent in retaining an unutilized property of this size.

### **Environmental**

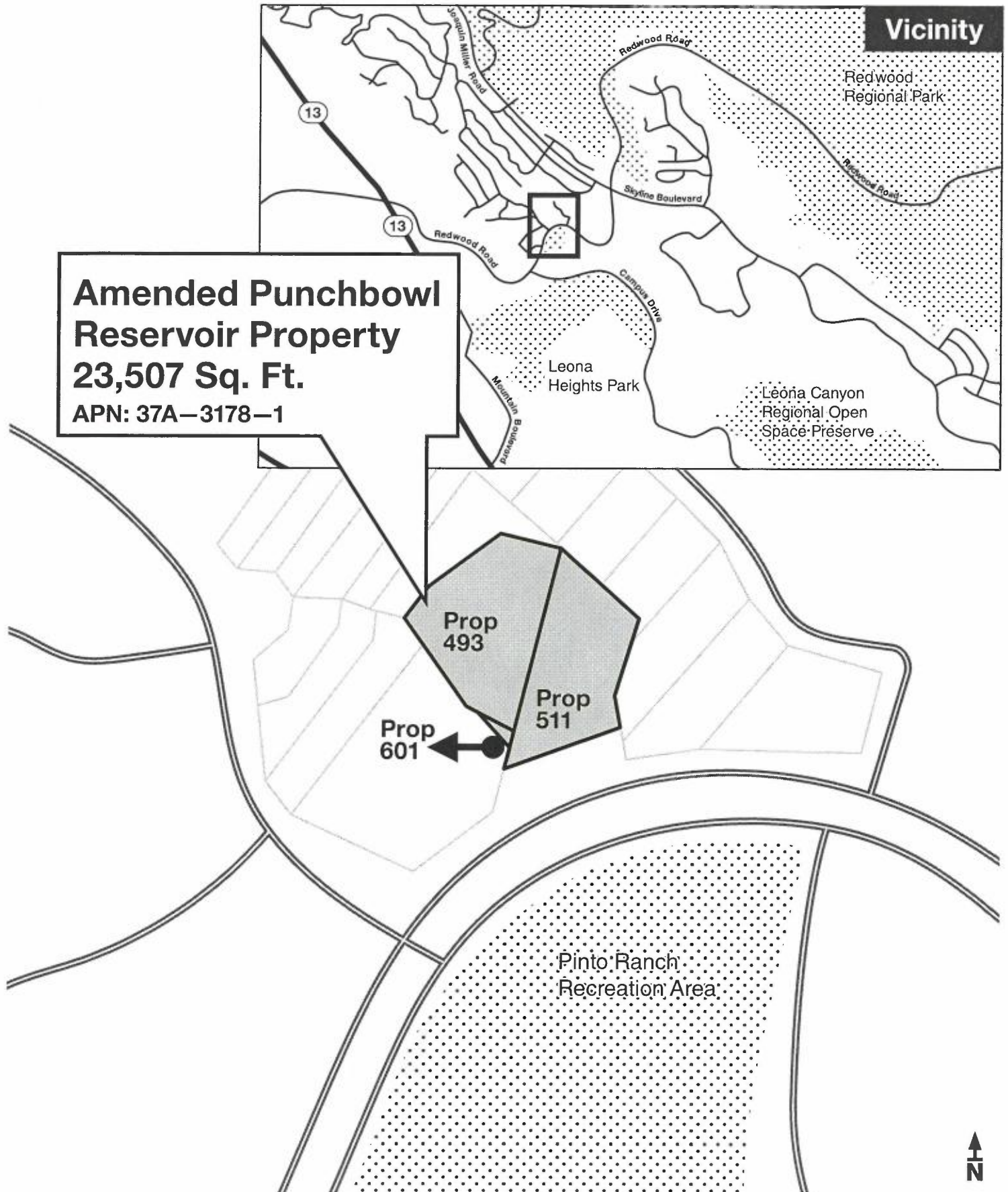
The sale of the surplus property is exempt from the California Environmental Quality Act under Section 15312 of the State CEQA Guidelines.

## **ALTERNATIVE**

**Reject the offer and keep the property.** This alternative is not recommended as the property has been deemed surplus and is no longer required for any present or future District purpose. The District would also forego the one-time revenue associated with the sale and continue to incur property maintenance and insurance costs.

Attachment

# Sale of Surplus Property: Punchbowl Reservoir



**Amended Punchbowl  
Reservoir Property**  
**23,507 Sq. Ft.**  
**APN: 37A-3178-1**





RESOLUTION NO. \_\_\_\_\_

AUTHORIZING THE SALE OF THE PUNCHBOWL RESERVOIR  
PROPERTY IN OAKLAND, CALIFORNIA, TO MR. MINH DOAN

Introduced by Director

; Seconded by Director

WHEREAS, East Bay Municipal Utility District (the District) has determined that property known as the Punchbowl Reservoir Property, consisting of approximately 0.54 acres of land located off Redwood Road in the City of Oakland, Alameda County, California, as more particularly shown on Exhibit A, attached hereto and incorporated herein, is surplus to the District's needs; and

WHEREAS, in accordance with the provisions of Government Code section 54222, the District offered the property to the California Natural Resources Agency, the City of Oakland Parks, Recreation & Youth Development Department, the Alameda County Public Works Agency, the City of Oakland Public Works Department, the City of Oakland Human Services Department, the East Bay Regional Park District, the Oakland Housing Authority, the Housing Authority of Alameda County and the Oakland Unified School District and did not receive an expression of interest in purchasing the property from any of these agencies; and

WHEREAS, pursuant to District Policy 4.21, the District notified three property owners adjacent to the Punchbowl Reservoir Property of its intent to offer the property for sale, and none expressed interest in purchasing the property; and

WHEREAS, the District had the property appraised by an independent appraiser on an "as is" basis and the appraiser valued it at \$325,000 as of February 7, 2019; and

WHEREAS, the District offered the property for sale at the appraised market value and received one offer from Mr. Minh Doan, which was above the asking price; and

WHEREAS, the District has accepted the all-cash offer from Mr. Minh Doan in the amount of \$505,000; and

WHEREAS, the proposed sale is in conformance with the General Plan of the City of Oakland, and is categorically exempt from the California Environmental Quality Act under Section 15312 of the State CEQA Guidelines; and

WHEREAS, it is in the best interest of the District to sell the surplus property;

NOW, THEREFORE, BE IT RESOLVED that the Manager of Real Estate Services and the Secretary of the District are authorized and directed to execute a grant deed, in a form approved by the General Counsel, conveying said real property to Mr. Minh Doan, and any and all other documents necessary to close escrow, and the proper officers of the District are hereby

authorized and directed to deliver said deed to Mr. Minh Doan upon receipt of \$505,000, less a non-refundable deposit into escrow of \$10,000.

BE IT FURTHER RESOLVED that the Secretary of the District is hereby directed to file a notice of exemption in accordance with the law, with the County Clerk of Alameda County.

ADOPTED this 14<sup>th</sup> day of May, 2019 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

ATTEST:

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President

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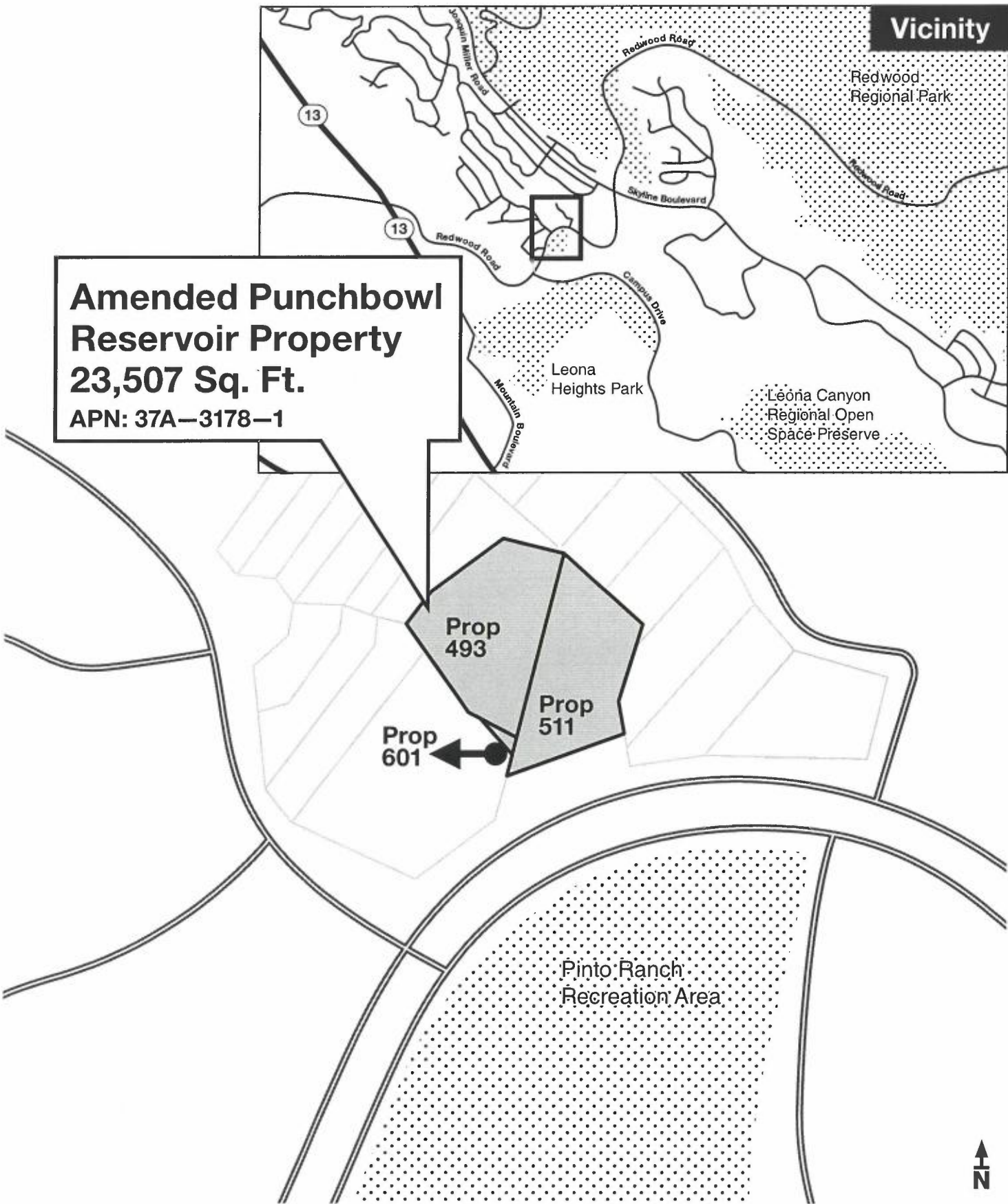
Secretary

APPROVED AS TO FORM AND PROCEDURE:

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General Counsel

# Sale of Surplus Property: Punchbowl Reservoir







## EAST BAY MUNICIPAL UTILITY DISTRICT

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DATE: May 9, 2019

MEMO TO: Board of Directors

FROM: Alexander R. Coate, General Manager *ARC*

SUBJECT: Legislative Report No. 03-19

The following issues are being referred to the Legislative/Human Resources Committee for review and recommendation to the Board of Directors for action, as appropriate, on May 14, 2019.

### **RECOMMENDED ACTION**

Approve positions on the following bills: 1) Support AB 557 (Wood) Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program; 2) Support AB 1414 (Friedman) Urban retail water suppliers: reporting; 3) Support AB 1588 (Gloria) Drinking water and wastewater operator certification programs; and 4) Support SB 487 (Caballero) Department of Water Resources: aerial snow survey.

### **STATE LEGISLATION**

### **RECOMMENDED POSITION**

AB 557 (Wood)	<b>ATMOSPHERIC RIVERS: RESEARCH, MITIGATION, AND CLIMATE FORECASTING PROGRAM</b>	<b>SUPPORT</b>
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Existing law establishes the Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program (atmospheric rivers program) in the Department of Water Resources (DWR) and requires DWR, when money has been appropriated, to conduct research through the atmospheric rivers program on climate forecasting and the causes and impacts that climate change has on atmospheric rivers. In addition, DWR may take actions to capture water generated by atmospheric rivers.

AB 557 (Wood), as introduced on February 13, 2019, would clarify that the atmospheric rivers program is authorized to conduct research for improving the accuracy of forecasting atmospheric river events, in addition to conducting other research. The bill would also appropriate \$9,250,000 from the general fund to DWR to operate the atmospheric rivers program.

Atmospheric rivers are long, narrow bands of water vapor, essentially giant rivers in the atmosphere pushed along by strong winds. Atmospheric rivers can carry an amount of water vapor roughly equivalent to more than 25 times the amount of water that flows through the

mouth of the Mississippi River. When they reach landfall, the atmospheric rivers often release the water vapor in the form of rain and snow. Atmospheric rivers can supply on average between 40 and 50 percent of California's precipitation and snowpack annually. However, current short-term forecasts for atmospheric rivers are only reliable out to about three days and it is difficult to predict where the atmospheric rivers will make landfall. While DWR's atmospheric rivers program is tasked with conducting research regarding climate change and the impacts it has on atmospheric rivers, the funding for the atmospheric rivers program must be approved by legislative appropriation. In 2016, \$3 million was appropriated for the atmospheric rivers program; additional funds are now needed.

According to the author, California "typically receives most of its annual rainfall in just a handful of atmospheric river events, followed by months or years of drought. Every day water managers make critical decisions about when to move water to provide flood protection and when to store water to prepare for inevitable droughts. Climate change has made this matter more extreme and is making decisions by water managers more difficult. As we experience larger and more intense atmospheric rivers, followed by longer and more severe droughts, our ability to accurately predict when, where, and how these weather patterns will affect our state's water supply requires more research."

Ensuring the atmospheric rivers program has funding to continue its research, including how to improve the capability to track and forecast atmospheric rivers, would increase the state's and local water managers' understanding of atmospheric rivers. This understanding would help reduce flood risks and improve reservoir management.

AB 557 is intended to ensure that DWR's atmospheric rivers program can research how to improve the accuracy of atmospheric river forecasting and provide funding for the atmospheric rivers program to continue its research. AB 557 would help water agencies such as EBMUD by providing more accurate forecasts of when and where an atmospheric river will make landfall and how much precipitation will fall. This will assist water supply managers and flood control operators make reservoir storage decisions based on more precise information.

With regard to anticipated costs and benefits to EBMUD and its ratepayers, additional costs are not anticipated to accrue as a result of AB 577. Benefits could accrue if AB 577 results in more accurate forecasting of atmospheric rivers that could inform EBMUD's reservoir operations.

The issue of improving the accuracy of atmospheric rivers research is a relatively new topic of legislation and thus there is no recent history of similar legislation considered by EBMUD. AB 557's objective is consistent with EBMUD's mission that includes managing the natural resources it is entrusted with and providing reliable, high-quality water.

The official list of support and opposition to AB 557 is shown below.

#### Support

Association of California Water Agencies

California Municipal Utilities Association  
Orange County Water District  
San Diego County Water Authority  
Sonoma County Water Agency  
Turlock Irrigation District  
Yuba County Water Agency

Opposition  
None listed

<b>AB 1414 (Friedman)</b>	<b>URBAN RETAIL WATER SUPPLIERS: REPORTING</b>	<b>SUPPORT</b>
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Existing law imposes various water use and resource reporting requirements on urban water suppliers, including requirements to submit the following: 1) an Urban Water Management Plan to the Department of Water Resources (DWR) every five years; 2) an annual water loss report to DWR; and 3) beginning no later than November, 1, 2023, an annual water use objective and actual urban water use to DWR. The deadlines for submitting these various reports vary.

AB 1414 (Friedman), as introduced on February 22, 2019, makes technical corrections to the “Making Water Conservation a California Way of Life” legislative package which was approved by the legislature and signed into law in 2018, and supported by EBMUD. AB 1414 is intended to streamline urban retail water suppliers’ reporting requirements by consolidating various reports and aligning the due dates for report submission.

According to the Assembly Committee on Water, Parks, and Wildlife, the “Making Water Conservation a California Way of Life” 2018 legislative package included new reporting requirements for water agencies that were in addition to existing requirements for Urban Water Management Plans and water loss audit reports. The reporting requirements can be time-intensive and resource-intensive to complete. AB 1414 would condense five current reporting deadlines down to two and merge multiple report submissions into two single submittals, eliminating some redundancy.

AB 1414 keeps current water use and water resources reporting in place while helping water agencies, such as EBMUD, comply with the requirements by condensing the number of reports required and aligning various reporting deadlines.

With regard to anticipated costs and benefits to EBMUD and its ratepayers, additional costs are not anticipated to accrue as a result of AB 1414. EBMUD anticipates some minor savings in costs and staff time due to the need for fewer separate reports to DWR.

EBMUD previously supported legislation related to long-term water use efficiency and drought planning, which included the reporting requirements that AB 1414 seeks to streamline. EBMUD supported AB 1668 (Friedman) and SB 606 (Hertzberg) to implement the Brown



administration's "Making Water Conservation a California Way of Life" framework. Both bills were signed into law in 2018 (Chapter 15 and Chapter 14, respectively).

The official list of support and opposition to AB 1414 is shown below.

Support

California Municipal Utilities Association  
Southern California Water Coalition

Opposition

None listed

**AB 1588  
(Gloria)**

**DRINKING WATER AND WASTEWATER  
OPERATOR CERTIFICATION PROGRAMS**

**SUPPORT**

Existing law requires the State Water Resources Control Board (SWRCB) to certify water treatment plant and water distribution system operators. The certification must indicate the classification of water treatment plant or water distribution system that is covered under the certification. In addition, the SWRCB must classify types of wastewater treatment plants for the purpose of determining the levels of competence necessary to operate them, as well as issue a water treatment operator certificate and water distribution operator certificate by reciprocity to any person holding a valid, unexpired, comparable certification issued by another state, the United States, prescribed territories or tribal governments.

AB 1588 (Gloria), as amended on April 2, 2019, is intended to assist military veterans transitioning into civilian water and wastewater operator occupations by ensuring they receive credit for their experience and education related to operation of water or wastewater facilities gained during military service when seeking state certification as water or wastewater facility operators.

According to the bill, "water and wastewater treatment and operation is a well-established industry with an aging workforce." In order to encourage advancement and cross-training "and to attract skilled workers to the water and wastewater industry" California's certification requirements should recognize a broad range of experience and qualifications, including those gained during military service.

Currently, to be certified or move to a new certification level as a water treatment plant operator, a water distribution system operator, or a wastewater operator, an applicant must meet minimum educational and experience criteria and pass a state exam. Under existing law, the SWRCB has a process for granting certification through reciprocity to operators who have been certified by another state. However, there is not a similar process that allows the SWRCB to grant certification through reciprocity to military veterans if their education and experience during military service is equivalent to California's requirements.



EBMUD employs water treatment plant operators, water distribution system operators, and wastewater operators. While EBMUD has not recently had difficulty recruiting qualified water treatment operators, water distribution operators, or wastewater operators, this bill may expand the number of qualified applicants for EBMUD operator positions and may provide additional opportunities for military veterans.

AB 1588 would assist the state, and water agencies such as EBMUD, by potentially expanding the pool of skilled individuals certified as water treatment plant operators, water distribution system operators, and wastewater operators.

With regard to anticipated costs and benefits to EBMUD and its ratepayers, additional costs are not expected to accrue as a result of AB 1588. Benefits could accrue if the measure results in a larger pool of skilled water treatment, water distribution, and wastewater operators seeking employment.

The issue of military experience and education equivalency for water and wastewater operator certification requirements is a relatively new topic of legislation thus there is no recent history of similar legislation considered by EBMUD. AB 1588 is consistent with EBMUD's efforts to recruit highly qualified and diverse staff.

The official list of support and opposition to AB 1588 is shown below.

Support

Otay Water District (Cosponsor)  
American Federation of State, County and Municipal Employees, AFL-CIO  
American G.I. Forum of California  
Amvets, Department of California  
California Association of County Veterans Service Officers  
California Association of Sanitation Agencies  
California State Commanders Veterans Council  
California Water Association  
Eastern Municipal Water District  
Mesa Water District  
Oceanside Chamber of Commerce  
Rural County Representatives of California  
San Diego County Water Authority  
San Diego North Economic Development Council  
San Diego Regional EDC  
San Diego Veterans Coalition  
Santa Clara Valley Water District  
Sweetwater Authority  
Turlock Irrigation District  
United Veterans Council of San Diego County  
Valley Center Municipal Water District

Veterans Village of San Diego  
Vietnam Veterans of America, California State Council

Opposition  
None listed

**SB 487                      DEPARTMENT OF WATER RESOURCES:        SUPPORT**  
**(Caballero)              AERIAL SNOW SURVEY**

Existing law requires the Department of Water Resources (DWR) to collect and correlate information and data, including conducting snow surveys, to provide annual forecasts of seasonal water runoff.

SB 487 (Caballero), as introduced on February 21, 2019, would require DWR to conduct aerial surveys of the snowpack in the Trinity Alps and Sierra Nevada Mountains, including hydrologic areas that drain or supply water to certain major reservoirs and lakes, including Pardee Reservoir. Under the bill, DWR would be required to collect the aerial survey data up to 10 times per year, as well as summarize and make the data publicly available for use by public agencies and other interested parties. SB 487 would also continuously appropriate \$150 million from the state general fund to DWR for these purposes, with \$15 million allocated for expenditure each fiscal year. The provisions of the bill would expire on July 1, 2029.

According to the bill, the state launched snow surveys in 1929, providing water managers critical information needed to make daily decisions about operating water infrastructure to serve water supply and public safety needs. However, while conventional snowpack surveys provide useful data, they are limited and can have up to a 60-percent margin of error. Greater accuracy is needed to maximize the efficient operation of reservoirs, including managing water supply and flood control operations.

Since 2013, DWR has partnered with the National Aeronautics and Space Administration and others on a project to use aerial surveys to provide more complete snowpack data and runoff projections. However, the aerial surveys are used for only a portion of the state's watersheds and state funding for the program ends after the 2019 snow season.

Currently, EBMUD uses manual and automated data collected by DWR from February through May to estimate runoff projections into Pardee Reservoir, which informs EBMUD's water supply availability data. SB 487 would provide more accurate and timely information about snowpack, runoff, and conditions in watersheds, including EBMUD's, and would assist EBMUD and others with water resource management.

With regard to anticipated costs and benefits to EBMUD and its ratepayers, additional costs are not anticipated to accrue as a result of SB 487. Because the bill lists Pardee Reservoir as a hydrologic area to be included in aerial survey efforts, EBMUD expects to benefit from more

accurate information regarding snowpack in the Mokelumne Watershed and potential runoff thus enhancing EBMUD's water supply management.

The issue of aerial snow surveys is a relatively new topic of legislation and thus there is no recent history of similar legislation considered by EBMUD. SB 487's objective is consistent with EBMUD's mission that includes managing the natural resources it is entrusted with and providing reliable, high-quality water.

The official list of support and opposition to SB 487 is shown below.

Support

Friant Water Authority (Co-Sponsor)  
Turlock Irrigation District (Co-Sponsor)  
Association of California Water Agencies  
California Municipal Utilities Association  
Kaweah-Delta Water Conservation District  
Kern-Tulare Water District  
Kings River Water Association  
Linsay-Strathmore Irrigation District  
Mammoth Community Water District  
Modesto Irrigation District  
Northern California Water Association  
San Francisco Public Utilities Commission  
South Valley Water Association  
Tulare Irrigation District

Opposition

None listed

ARC:MD:JW





**ASSEMBLY BILL**

**No. 557**

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**Introduced by Assembly Member Wood  
(Principal coauthor: Assembly Member Aguiar-Curry)**

February 13, 2019

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An act to amend Section 347 of the Water Code, relating to climate change, and making an appropriation therefor.

LEGISLATIVE COUNSEL'S DIGEST

AB 557, as introduced, Wood. Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program.

Existing law establishes the Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program in the Department of Water Resources. Existing law requires the department, upon an appropriation for purposes of the program, to research climate forecasting and the causes and impacts that climate change has on atmospheric rivers, to operate reservoirs in a manner that improves flood protection, and to reoperate flood control and water storage facilities to capture water generated by atmospheric rivers.

This bill would appropriate \$9,250,000 from the General Fund to the department in the 2019–20 fiscal year to operate the program.

Vote:  $\frac{2}{3}$ . Appropriation: yes. Fiscal committee: yes.  
State-mandated local program: no.

*The people of the State of California do enact as follows:*

1     SECTION 1. Section 347 of the Water Code is amended to  
2     read:

1 347. (a) The Atmospheric Rivers: Research, Mitigation, and  
2 Climate Forecasting Program is hereby established in the  
3 Department of Water Resources.

4 ~~(b) Upon appropriation of special fund moneys, including, but~~  
5 ~~not limited to, private funds, by the Legislature for these purposes,~~  
6 the department shall conduct research relating to ~~climate~~  
7 ~~forecasting improving the accuracy of forecasting atmospheric~~  
8 ~~river events~~ and the causes and impacts that climate change has  
9 on atmospheric rivers, and shall take all actions within its existing  
10 authority to operate reservoirs in a manner that improves flood  
11 protection in the state and to reoperate flood control and water  
12 storage facilities to capture water generated by atmospheric rivers,  
13 thereby increasing water supply, hydropower availability, and the  
14 reliability of water resources in the state.

15 (c) *The sum of nine million two hundred fifty thousand dollars*  
16 *(\$9,250,000) is hereby appropriated from the General Fund to the*  
17 *department in the 2019–20 fiscal year to operate the program*  
18 *established by this section.*

**ASSEMBLY BILL**

**No. 1414**

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**Introduced by Assembly Member Friedman**

February 22, 2019

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An act to amend Sections 10608.34, 10609.20, 10609.22, 10609.24, 10609.26, 10621, 10631, and 10632.1 of, and to add Section 10609.25 to, the Water Code, relating to water.

LEGISLATIVE COUNSEL’S DIGEST

AB 1414, as introduced, Friedman. Urban retail water suppliers: reporting.

(1) Existing law requires the state to achieve a 20% reduction in urban per capita water use in California by December 31, 2020. Existing law requires each urban retail water supplier to develop urban water use targets and an interim urban water use target, in accordance with specified requirements. Existing law requires each urban retail water supplier, on or before October 1, 2017, and on or before October 1 of each year thereafter, to submit a completed and validated water loss audit report for the previous calendar year or previous fiscal year as prescribed by rules adopted by the Department of Water Resources.

This bill would require each urban retail water supplier on or before January 1 of each year until January 1, 2024, to submit a completed and validated water loss audit report as prescribed by the department. The bill would require on or before January 1, 2024, and on or before January 1 of each year thereafter, each urban retail water supplier to submit a completed and validated water loss audit report for the previous calendar year or previous fiscal year as part of an existing report relating to its urban water use.

(2) Existing law requires an urban retail water supplier to calculate an urban water use objective no later than November 1, 2023, and by November 1 every year thereafter, and its actual urban water use by those same dates. Existing law requires an urban retail water supplier to submit a report to the department relating to its urban water use by those dates.

This bill would revise these dates to January 1, 2024, and by January 1 every year thereafter.

(3) Existing law, on and after November 1, 2023, authorizes the State Water Resources Control Board to issue informational orders pertaining to water production, water use, and water conservation to an urban retail water supplier that does not meet its urban water use objective.

This bill would instead authorize the board to issue an informational order pertaining to water production, water use, and water conservation to an urban retail water supplier that does not meet its urban water use objective on and after January 1, 2024.

(4) Existing law, the Urban Water Management Planning Act, requires every public and private urban water supplier that directly or indirectly provides water for municipal purposes to prepare and adopt an urban water management plan. The act requires an urban water management plan to be updated on or before July 1, in years ending in 6 and 1, incorporating updated and new information from the 5 years preceding the plan update. The act requires each urban retail water supplier to adopt and submit to the department by January 1, 2024, a supplement to the adopted 2020 plan that includes a narrative describing the water demand management measures that the supplier plans to implement.

The bill would recast the urban water management narrative requirement to instead require, as part of the first annual report the urban retail water supplier submits to the department, a narrative that describes the water demand management measures that the supplier plans to implement to achieve its urban water use objective by January 1, 2027.

(5) The act requires an urban water supplier to conduct an annual water supply and demand assessment and submit an annual shortage assessment report to the department consistent with the supplier's water shortage contingency plan by June 1 of each year.

This bill would revise that deadline to July 1 of each year.

Vote: majority. Appropriation: no. Fiscal committee: yes.  
State-mandated local program: no.



*The people of the State of California do enact as follows:*

1 SECTION 1. Section 10608.34 of the Water Code is amended  
2 to read:

3 10608.34. (a) (1) On or before January 1, 2017, the department  
4 shall adopt rules for all of the following:

5 (A) The conduct of standardized water loss audits by urban  
6 retail water suppliers in accordance with the method adopted by  
7 the American Water Works Association in the third edition of  
8 Water Audits and Loss Control Programs, Manual M36 and in the  
9 Free Water Audit Software, version 5.0.

10 (B) The process for validating a water loss audit report prior to  
11 submitting the report to the department. For the purposes of this  
12 section, “validating” is a process whereby an urban retail water  
13 supplier uses a technical expert to confirm the basis of all data  
14 entries in the urban retail water supplier’s water loss audit report  
15 and to appropriately characterize the quality of the reported data.  
16 The validation process shall follow the principles and terminology  
17 laid out by the American Water Works Association in the third  
18 edition of Water Audits and Loss Control Programs, Manual M36  
19 and in the Free Water Audit Software, version 5.0. A validated  
20 water loss audit report shall include the name and technical  
21 qualifications of the person engaged for validation.

22 (C) The technical qualifications required of a person to engage  
23 in validation, as described in subparagraph (B).

24 (D) The certification requirements for a person selected by an  
25 urban retail water supplier to provide validation of its own water  
26 loss audit report.

27 (E) The method of submitting a water loss audit report to the  
28 department.

29 (2) The department shall update rules adopted pursuant to  
30 paragraph (1) no later than six months after the release of  
31 subsequent editions of the American Water Works Association’s  
32 Water Audits and Loss Control Programs, Manual M36. Except  
33 as provided by the department, until the department adopts updated  
34 rules pursuant to this paragraph, an urban retail water supplier may  
35 rely upon a subsequent edition of the American Water Works  
36 Association’s Water Audits and Loss Control Programs, Manual  
37 M36 or the Free Water Audit Software.

(b) ~~On or before October 1, 2017, and on or before October 1 of each year thereafter, January 1 of each year until January 1, 2024,~~ each urban retail water supplier shall submit a completed and validated water loss audit report for the previous calendar year or the previous fiscal year as prescribed by the department pursuant to subdivision (a). *On or before January 1, 2024, and on or before January 1 of each year thereafter, each urban retail water supplier shall submit a completed and validated water loss audit report for the previous calendar year or previous fiscal year as part of the report submitted to the department pursuant to subdivision (a) of Section 10609.24 and as prescribed by the department pursuant to subdivision (a).* Water loss audit reports submitted on or before October 1, 2017, may be completed and validated with assistance as described in subdivision (c).

(c) Using funds available for the 2016–17 fiscal year, the board shall contribute up to four hundred thousand dollars (\$400,000) towards procuring water loss audit report validation assistance for urban retail water suppliers.

(d) Each water loss audit report submitted to the department shall be accompanied by information, in a form specified by the department, identifying steps taken in the preceding year to increase the validity of data entered into the final audit, reduce the volume of apparent losses, and reduce the volume of real losses.

(e) At least one of the following employees of an urban retail water supplier shall attest to each water loss audit report submitted to the department:

- (1) The chief financial officer.
- (2) The chief engineer.
- (3) The general manager.

(f) The department shall deem incomplete and return to the urban retail water supplier any final water loss audit report found by the department to be incomplete, not validated, unattested, or incongruent with known characteristics of water system operations. A water supplier shall resubmit a completed water loss audit report within 90 days of an audit being returned by the department.

(g) The department shall post all validated water loss audit reports on its ~~Internet Web site~~ *internet website* in a manner that allows for comparisons across water suppliers. The department shall make the validated water loss audit reports available for public viewing in a timely manner after their receipt.

(h) Using available funds, the department shall provide technical assistance to guide urban retail water suppliers' water loss detection programs, including, but not limited to, metering techniques, pressure management techniques, condition-based assessment techniques for transmission and distribution pipelines, and utilization of portable and permanent water loss detection devices.

(i) No earlier than January 1, 2019, and no later than July 1, 2020, the board shall adopt rules requiring urban retail water suppliers to meet performance standards for the volume of water losses. In adopting these rules, the board shall employ full life-cycle cost accounting to evaluate the costs of meeting the performance standards. The board may consider establishing a minimum allowable water loss threshold that, if reached and maintained by an urban water supplier, would exempt the urban water supplier from further water loss reduction requirements.

SEC. 2. Section 10609.20 of the Water Code is amended to read:

10609.20. (a) Each urban retail water supplier shall calculate its urban water use objective no later than ~~November 1, 2023,~~ *January 1, 2024*, and by ~~November~~ *January 1* every year thereafter.

(b) The calculation shall be based on the urban retail water supplier's water use conditions for the previous calendar or fiscal year.

(c) Each urban water supplier's urban water use objective shall be composed of the sum of the following:

(1) Aggregate estimated efficient indoor residential water use.

(2) Aggregate estimated efficient outdoor residential water use.

(3) Aggregate estimated efficient outdoor irrigation of landscape areas with dedicated irrigation meters or equivalent technology in connection with CII water use.

(4) Aggregate estimated efficient water losses.

(5) Aggregate estimated water use in accordance with variances, as appropriate.

(d) (1) An urban retail water supplier that delivers water from a groundwater basin, reservoir, or other source that is augmented by potable reuse water may adjust its urban water use objective by a bonus incentive calculated pursuant to this subdivision.

(2) The water use objective bonus incentive shall be the volume of its potable reuse delivered to residential water users and to



1 landscape areas with dedicated irrigation meters in connection  
2 with CII water use, on an acre-foot basis.

3 (3) The bonus incentive pursuant to paragraph (1) shall be  
4 limited in accordance with one of the following:

5 (A) The bonus incentive shall not exceed 15 percent of the urban  
6 water supplier's water use objective for any potable reuse water  
7 produced at an existing facility.

8 (B) The bonus incentive shall not exceed 10 percent of the urban  
9 water supplier's water use objective for any potable reuse water  
10 produced at any facility that is not an existing facility.

11 (4) For purposes of this subdivision, "existing facility" means  
12 a facility that meets all of the following:

13 (A) The facility has a certified environmental impact report,  
14 mitigated negative declaration, or negative declaration on or before  
15 January 1, 2019.

16 (B) The facility begins producing and delivering potable reuse  
17 water on or before January 1, 2022.

18 (C) The facility uses microfiltration and reverse osmosis  
19 technologies to produce the potable reuse water.

20 (e) (1) The calculation of the urban water use objective shall  
21 be made using landscape area and other data provided by the  
22 department and pursuant to the standards, guidelines, and  
23 methodologies adopted by the board. The department shall provide  
24 data to the urban water supplier at a level of detail sufficient to  
25 allow the urban water supplier to verify its accuracy at the parcel  
26 level.

27 (2) Notwithstanding paragraph (1), an urban retail water supplier  
28 may use alternative data in calculating the urban water use  
29 objective if the supplier demonstrates to the department that the  
30 alternative data are equivalent, or superior, in quality and accuracy  
31 to the data provided by the department. The department may  
32 provide technical assistance to an urban retail water supplier in  
33 evaluating whether the alternative data are appropriate for use in  
34 calculating the supplier's urban water use objective.

35 SEC. 3. Section 10609.22 of the Water Code is amended to  
36 read:

37 10609.22. (a) An urban retail water supplier shall calculate its  
38 actual urban water use no later than ~~November 1, 2023~~, *January*  
39 *1, 2024*, and by ~~November~~ *January* 1 every year thereafter.



(b) The calculation shall be based on the urban retail water supplier's water use for the previous calendar or fiscal year.

(c) Each urban water supplier's urban water use shall be composed of the sum of the following:

(1) Aggregate residential water use.

(2) Aggregate outdoor irrigation of landscape areas with dedicated irrigation meters in connection with CII water use.

(3) Aggregate water losses.

SEC. 4. Section 10609.24 of the Water Code is amended to read:

10609.24. (a) An urban retail water supplier shall submit a report to the department no later than ~~November 1, 2023~~, *January 1, 2024*, and by ~~November~~ *January* 1 every year thereafter. The report shall include all of the following:

(1) The urban water use objective calculated pursuant to Section 10609.20 along with relevant supporting data.

(2) The actual urban water use calculated pursuant to Section 10609.22 along with relevant supporting data.

(3) Documentation of the implementation of the performance measures for CII water use.

(4) A description of the progress made towards meeting the urban water use objective.

(5) *The validated water loss audit conducted pursuant to Section 10608.34.*

(b) The department shall post the reports and information on its ~~Internet Web site~~: *internet website*.

(c) The board may issue an information order or conservation order to, or impose civil liability on, an entity or individual for failure to submit a report required by this section.

SEC. 5. Section 10609.25 is added to the Water Code, to read:

10609.25. As part of the first report submitted to the department by an urban retail water supplier no later than January 1, 2024, pursuant to subdivision (a) of Section 10609.24, each urban retail water supplier shall provide a narrative that describes the water demand management measures that the supplier plans to implement to achieve its urban water use objective by January 1, 2027.

SEC. 6. Section 10609.26 of the Water Code is amended to read:

10609.26. (a) (1) On and after ~~November 1, 2023~~, *January 1, 2024*, the board may issue informational orders pertaining to

1 water production, water use, and water conservation to an urban  
2 retail water supplier that does not meet its urban water use objective  
3 required by this chapter. Informational orders are intended to obtain  
4 information on supplier activities, water production, and  
5 conservation efforts in order to identify technical assistance needs  
6 and assist urban water suppliers in meeting their urban water use  
7 objectives.

8 (2) In determining whether to issue an informational order, the  
9 board shall consider the degree to which the urban retail water  
10 supplier is not meeting its urban water use objective, information  
11 provided in the report required by Section 10609.24, and actions  
12 the urban retail water supplier has implemented or will implement  
13 in order to help meet the urban water use objective.

14 (3) The board shall share information received pursuant to this  
15 subdivision with the department.

16 (4) An urban water supplier may request technical assistance  
17 from the department. The technical assistance may, to the extent  
18 available, include guidance documents, tools, and data.

19 (b) On and after ~~November 1, 2024~~, *January 1, 2025*, the board  
20 may issue a written notice to an urban retail water supplier that  
21 does not meet its urban water use objective required by this chapter.  
22 The written notice may warn the urban retail water supplier that  
23 it is not meeting its urban water use objective described in Section  
24 10609.20 and is not making adequate progress in meeting the urban  
25 water use objective, and may request that the urban retail water  
26 supplier address areas of concern in its next annual report required  
27 by Section 10609.24. In deciding whether to issue a written notice,  
28 the board may consider whether the urban retail water supplier has  
29 received an informational order, the degree to which the urban  
30 retail water supplier is not meeting its urban water use objective,  
31 information provided in the report required by Section 10609.24,  
32 and actions the urban retail water supplier has implemented or will  
33 implement in order to help meet its urban water use objective.

34 (c) (1) On and after ~~November 1, 2025~~, *January 1, 2026*, the  
35 board may issue a conservation order to an urban retail water  
36 supplier that does not meet its urban water use objective. A  
37 conservation order may consist of, but is not limited to, referral to  
38 the department for technical assistance, requirements for education  
39 and outreach, requirements for local enforcement, and other efforts

1 to assist urban retail water suppliers in meeting their urban water  
2 use objective.

3 (2) In issuing a conservation order, the board shall identify  
4 specific deficiencies in an urban retail water supplier's progress  
5 towards meeting its urban water use objective, and identify specific  
6 actions to address the deficiencies.

7 (3) The board may request that the department provide an urban  
8 retail water supplier with technical assistance to support the urban  
9 retail water supplier's actions to remedy the deficiencies.

10 (d) A conservation order issued in accordance with this chapter  
11 may include requiring actions intended to increase water-use  
12 efficiency, but shall not curtail or otherwise limit the exercise of  
13 a water right, nor shall it require the imposition of civil liability  
14 pursuant to Section 377.

15 SEC. 7. Section 10621 of the Water Code is amended to read:

16 10621. (a) Each urban water supplier shall update its plan at  
17 least once every five years on or before July 1, in years ending in  
18 six and one, incorporating updated and new information from the  
19 five years preceding each update.

20 (b) Every urban water supplier required to prepare a plan  
21 pursuant to this part shall, at least 60 days before the public hearing  
22 on the plan required by Section 10642, notify any city or county  
23 within which the supplier provides water supplies that the urban  
24 water supplier will be reviewing the plan and considering  
25 amendments or changes to the plan. The urban water supplier may  
26 consult with, and obtain comments from, any city or county that  
27 receives notice pursuant to this subdivision.

28 (c) An urban water supplier regulated by the Public Utilities  
29 Commission shall include its most recent plan and water shortage  
30 contingency plan as part of the supplier's general rate case filings.

31 (d) The amendments to, or changes in, the plan shall be adopted  
32 and filed in the manner set forth in Article 3 (commencing with  
33 Section 10640).

34 (e) Each urban water supplier shall update and submit its 2015  
35 plan to the department by July 1, 2016.

36 (f) ~~(1)~~ Each urban water supplier shall update and submit its  
37 2020 plan to the department by July 1, 2021.

38 ~~(2) By January 1, 2024, each urban retail water supplier shall~~  
39 ~~adopt and submit to the department a supplement to the adopted~~  
40 ~~2020 plan that includes information required pursuant to~~

1 subparagraph (B) of paragraph (1) of subdivision (c) of Section  
2 10631. This supplement is not an update or an amendment to the  
3 plan and, therefore, an urban water supplier is not required to  
4 comply with the public notice, hearing, and adoption requirements  
5 of Section 10642 before submitting the information to the  
6 department.

7 SEC. 8. Section 10631 of the Water Code is amended to read:

8 10631. A plan shall be adopted in accordance with this chapter  
9 that shall do all of the following:

10 (a) Describe the service area of the supplier, including current  
11 and projected population, climate, and other social, economic, and  
12 demographic factors affecting the supplier's water management  
13 planning. The projected population estimates shall be based upon  
14 data from the state, regional, or local service agency population  
15 projections within the service area of the urban water supplier and  
16 shall be in five-year increments to 20 years or as far as data is  
17 available. The description shall include the current and projected  
18 land uses within the existing or anticipated service area affecting  
19 the supplier's water management planning. Urban water suppliers  
20 shall coordinate with local or regional land use authorities to  
21 determine the most appropriate land use information, including,  
22 where appropriate, land use information obtained from local or  
23 regional land use authorities, as developed pursuant to Article 5  
24 (commencing with Section 65300) of Chapter 3 of Division 1 of  
25 Title 7 of the Government Code.

26 (b) Identify and quantify, to the extent practicable, the existing  
27 and planned sources of water available to the supplier over the  
28 same five-year increments described in subdivision (a), providing  
29 supporting and related information, including all of the following:

30 (1) A detailed discussion of anticipated supply availability under  
31 a normal water year, single dry year, and droughts lasting at least  
32 five years, as well as more frequent and severe periods of drought,  
33 as described in the drought risk assessment. For each source of  
34 water supply, consider any information pertinent to the reliability  
35 analysis conducted pursuant to Section 10635, including changes  
36 in supply due to climate change.

37 (2) When multiple sources of water supply are identified, a  
38 description of the management of each supply in correlation with  
39 the other identified supplies.



1 (3) For any planned sources of water supply, a description of  
2 the measures that are being undertaken to acquire and develop  
3 those water supplies.

4 (4) If groundwater is identified as an existing or planned source  
5 of water available to the supplier, all of the following information:

6 (A) The current version of any groundwater sustainability plan  
7 or alternative adopted pursuant to Part 2.74 (commencing with  
8 Section 10720), any groundwater management plan adopted by  
9 the urban water supplier, including plans adopted pursuant to Part  
10 2.75 (commencing with Section 10750), or any other specific  
11 authorization for groundwater management for basins underlying  
12 the urban water supplier's service area.

13 (B) A description of any groundwater basin or basins from  
14 which the urban water supplier pumps groundwater. For basins  
15 that a court or the board has adjudicated the rights to pump  
16 groundwater, a copy of the order or decree adopted by the court  
17 or the board and a description of the amount of groundwater the  
18 urban water supplier has the legal right to pump under the order  
19 or decree. For a basin that has not been adjudicated, information  
20 as to whether the department has identified the basin as a high- or  
21 medium-priority basin in the most current official departmental  
22 bulletin that characterizes the condition of the groundwater basin,  
23 and a detailed description of the efforts being undertaken by the  
24 urban water supplier to coordinate with groundwater sustainability  
25 agencies or groundwater management agencies listed in subdivision  
26 (c) of Section 10723 to maintain or achieve sustainable  
27 groundwater conditions in accordance with a groundwater  
28 sustainability plan or alternative adopted pursuant to Part 2.74  
29 (commencing with Section 10720).

30 (C) A detailed description and analysis of the location, amount,  
31 and sufficiency of groundwater pumped by the urban water supplier  
32 for the past five years. The description and analysis shall be based  
33 on information that is reasonably available, including, but not  
34 limited to, historic use records.

35 (D) A detailed description and analysis of the amount and  
36 location of groundwater that is projected to be pumped by the  
37 urban water supplier. The description and analysis shall be based  
38 on information that is reasonably available, including, but not  
39 limited to, historic use records.

1 (c) Describe the opportunities for exchanges or transfers of  
2 water on a short-term or long-term basis.

3 (d) (1) For an urban retail water supplier, quantify, to the extent  
4 records are available, past and current water use, over the same  
5 five-year increments described in subdivision (a), and projected  
6 water use, based upon information developed pursuant to  
7 subdivision (a), identifying the uses among water use sectors,  
8 including, but not necessarily limited to, all of the following:

9 (A) Single-family residential.

10 (B) Multifamily.

11 (C) Commercial.

12 (D) Industrial.

13 (E) Institutional and governmental.

14 (F) Landscape.

15 (G) Sales to other agencies.

16 (H) Saline water intrusion barriers, groundwater recharge, or  
17 conjunctive use, or any combination thereof.

18 (I) Agricultural.

19 (J) Distribution system water loss.

20 (2) The water use projections shall be in the same five-year  
21 increments described in subdivision (a).

22 (3) (A) The distribution system water loss shall be quantified  
23 for each of the five years preceding the plan update, in accordance  
24 with rules adopted pursuant to Section 10608.34.

25 (B) The distribution system water loss quantification shall be  
26 reported in accordance with a worksheet approved or developed  
27 by the department through a public process. The water loss  
28 quantification worksheet shall be based on the water system  
29 balance methodology developed by the American Water Works  
30 Association.

31 (C) In the plan due July 1, 2021, and in each update thereafter,  
32 data shall be included to show whether the urban retail water  
33 supplier met the distribution loss standards enacted by the board  
34 pursuant to Section 10608.34.

35 (4) (A) Water use projections, where available, shall display  
36 and account for the water savings estimated to result from adopted  
37 codes, standards, ordinances, or transportation and land use plans  
38 identified by the urban water supplier, as applicable to the service  
39 area.

1 (B) To the extent that an urban water supplier reports the  
2 information described in subparagraph (A), an urban water supplier  
3 shall do both of the following:

4 (i) Provide citations of the various codes, standards, ordinances,  
5 or transportation and land use plans utilized in making the  
6 projections.

7 (ii) Indicate the extent that the water use projections consider  
8 savings from codes, standards, ordinances, or transportation and  
9 land use plans. Water use projections that do not account for these  
10 water savings shall be noted of that fact.

11 (e) Provide a description of the supplier's water demand  
12 management measures. This description shall include all of the  
13 following:

14 (1) (A) For an urban retail water supplier, as defined in Section  
15 10608.12, a narrative description that addresses the nature and  
16 extent of each water demand management measure implemented  
17 over the past five years. The narrative shall describe the water  
18 demand management measures that the supplier plans to implement  
19 to achieve its water use targets pursuant to Section 10608.20.

20 ~~(B) For the supplement required of urban retail water suppliers~~  
21 ~~by paragraph (2) of subdivision (f) of Section 10621, a narrative~~  
22 ~~that describes the water demand management measures that the~~  
23 ~~supplier plans to implement to achieve its urban water use objective~~  
24 ~~by January 1, 2027, pursuant to Chapter 9 (commencing with~~  
25 ~~Section 10609) of Part 2.55.~~

26 ~~(C)~~

27 (B) The narrative pursuant to this paragraph shall include  
28 descriptions of the following water demand management measures:

29 (i) Water waste prevention ordinances.

30 (ii) Metering.

31 (iii) Conservation pricing.

32 (iv) Public education and outreach.

33 (v) Programs to assess and manage distribution system real loss.

34 (vi) Water conservation program coordination and staffing  
35 support.

36 (vii) Other demand management measures that have a significant  
37 impact on water use as measured in gallons per capita per day,  
38 including innovative measures, if implemented.

39 (2) For an urban wholesale water supplier, as defined in Section  
40 10608.12, a narrative description of the items in clauses (ii), (iv),

(vi), and (vii) of subparagraph ~~(C)~~ (B) of paragraph (1), and a narrative description of its distribution system asset management and wholesale supplier assistance programs.

(f) Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water use, as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs that the urban water supplier may implement to increase the amount of the water supply available to the urban water supplier in normal and single-dry water years and for a period of drought lasting five consecutive water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.

(g) Describe the opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.

(h) An urban water supplier that relies upon a wholesale agency for a source of water shall provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years or as far as data is available. The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, the existing and planned sources of water as required by subdivision (b), available from the wholesale agency to the urban water supplier over the same five-year increments, and during various water-year types in accordance with subdivision (f). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (f).

SEC. 9. Section 10632.1 of the Water Code is amended to read:

10632.1. An urban water supplier shall conduct an annual water supply and demand assessment pursuant to subdivision (a) of Section 10632 and, on or before ~~June~~ July 1 of each year, submit an annual water shortage assessment report to the department with information for anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication



1 actions consistent with the supplier's water shortage contingency  
2 plan. An urban water supplier that relies on imported water from  
3 the State Water Project or the Bureau of Reclamation shall submit  
4 its annual water supply and demand assessment within 14 days of  
5 receiving its final allocations, or by ~~June~~ *July* 1 of each year,  
6 whichever is later.

O



AMENDED IN ASSEMBLY APRIL 2, 2019

CALIFORNIA LEGISLATURE—2019–20 REGULAR SESSION

**ASSEMBLY BILL**

**No. 1588**

**Introduced by Assembly Members Gloria and Gray**

**(Coauthors: Assembly Members Maienschein and Voepel)**

**(Coauthors: Senators Bates, Chang, Dodd, Nielsen, Stone, and Wilk)**

February 22, 2019

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An act to amend Sections ~~106876, 106897, and 106898~~ *106897 and 106898* of, and to add Section ~~106911, 106912, and 106913~~ *106911 and 106912* to, the Health and Safety Code, relating to water.

LEGISLATIVE COUNSEL'S DIGEST

AB 1588, as amended, Gloria. Drinking water and wastewater operator certification programs.

Existing law requires the State Water Resources Control Board to examine and certify persons as to their qualifications to operate water treatment plants and water distribution systems. Existing law requires the certification to indicate the classification of water treatment plant or water distribution system that the person is qualified to operate. Existing law requires the board to classify types of wastewater treatment plants for the purpose of determining the levels of competence necessary to operate them. Existing law requires a person who operates a nonexempt wastewater treatment plant to possess a valid, unexpired wastewater certificate or water treatment operator certificate of the appropriate grade.

This bill, when applying for certification by the board as a water treatment operator, distribution system operator, or wastewater operator, would require operators of complex industrial facilities, including members of the military and military service veterans, to receive full

equivalent experience credit and education credit for work and tasks performed that are directly related to the operation of water or wastewater facilities, as specified. ~~The bill would require for purposes of water treatment operator certification experience a treatment plant using advanced water treatment processes, as defined, that treats water of wastewater origin for purposes of water reuse to be considered to provide certain equivalent experience to working at a water treatment plant. The bill would require for purposes of water distribution operator certification experience operation of a recycled water distribution system to be considered to provide equivalent experience to operating a potable distribution system. The bill would authorize for purposes of certification as a certain water treatment operator or certain water distribution operator the substitution of specified experience or registration as a professional engineer in California.~~

Existing law requires the board to issue a water treatment operator certificate and water distribution operator certificate by reciprocity to any person holding a valid, unexpired, comparable certification issued by another state, the United States, prescribed territories or tribal governments, or a unit of any of these.

This bill would extend this reciprocity to a qualification.

Existing law requires the board to appoint an advisory committee of 10 members, as prescribed, to assist it in carrying out its responsibilities to examine and certify people to operate water treatment plants and water distribution systems. Existing law requires the advisory committee to review all proposed regulations and make recommendations to the board.

This bill would add an additional member to the advisory committee who is an active or former member of the United States military with water or wastewater treatment operations experience within their military service.

Vote: majority. Appropriation: no. Fiscal committee: yes.

State-mandated local program: no.

*The people of the State of California do enact as follows:*

- 1     ~~SECTION 1. Section 106876 of the Health and Safety Code~~
- 2     ~~is amended to read:~~
- 3     ~~106876. As used in this article, unless the context otherwise~~
- 4     ~~requires, the following definitions apply:~~



1     ~~(a) "Advanced water treatment process" means a water or~~  
2     ~~wastewater treatment process that includes any of the following:~~

3     ~~(1) Membrane filtration.~~

4     ~~(2) Membrane desalination.~~

5     ~~(3) Biological filtration.~~

6     ~~(4) Adsorption or ion exchange.~~

7     ~~(5) Finished water chemical stabilization.~~

8     ~~(6) Iron and manganese removal.~~

9     ~~(7) Advanced oxidation processes for pathogen or chemical~~  
10    ~~control.~~

11    ~~(8) Membrane bioreactor.~~

12    ~~(9) Other treatment processes as defined by the state board.~~

13    ~~(b) "Community water system" has the same meaning as defined~~  
14    ~~in Section 116275.~~

15    ~~(c) "Local primacy agency" has the same meaning as defined~~  
16    ~~in Section 116275.~~

17    ~~(d) "Nontransient noncommunity water system" has the same~~  
18    ~~meaning as defined in Section 116275.~~

19    ~~(e) "Operates a water distribution system" means actions or~~  
20    ~~decisions to control the quality or quantity of drinking water in a~~  
21    ~~water distribution system and includes both of the following:~~

22    ~~(1) Supervision of other persons operating a water distribution~~  
23    ~~system.~~

24    ~~(2) Any activity designated by the state board, in its regulations~~  
25    ~~to implement this article, as an activity that may only be performed~~  
26    ~~by a person with a water distribution operator certificate.~~

27    ~~(f) "Operates a water treatment plant" means actions or decisions~~  
28    ~~to control the performance of one or more drinking water treatment~~  
29    ~~processes and includes both of the following:~~

30    ~~(1) Supervision of other persons operating a water treatment~~  
31    ~~plant.~~

32    ~~(2) Any activity designated by the state board, in its regulations~~  
33    ~~to implement this article, as an activity that may only be performed~~  
34    ~~by a person with a water treatment operator certificate.~~

35    ~~(g) "Wastewater certificate" has the same meaning as defined~~  
36    ~~in Section 13625 of the Water Code.~~

37    ~~(h) "Wastewater treatment plant" has the same meaning as~~  
38    ~~defined in Section 13625 of the Water Code.~~

39    ~~(i) "Water distribution operator certificate" means a certificate~~  
40    ~~of competency issued by the state board stating that a person has~~

1 met the requirements to be certified to operate a water distribution  
2 system for a specified grade level.

3 (j) ~~“Water distribution system” has the same meaning as defined~~  
4 ~~in Section 116275.~~

5 (k) ~~“Water recycling treatment plant” has the same meaning as~~  
6 ~~defined in Section 13625 of the Water Code.~~

7 (l) ~~“Water treatment operator certificate” means a certificate of~~  
8 ~~competency issued by the state board stating that a person has met~~  
9 ~~the requirements to be certified to operate a water treatment plant~~  
10 ~~for a specific classification and grade level.~~

11 (m) ~~“Water treatment plant” has the same meaning as defined~~  
12 ~~in Section 116275.~~

13 (n) ~~“Water treatment process” means a process that improves~~  
14 ~~the physical, chemical, biological, or radiological quality of water~~  
15 ~~in order to render the water acceptable for use as drinking water~~  
16 ~~and includes all of the following:~~

17 (1) ~~Aeration.~~

18 (2) ~~Blending.~~

19 (3) ~~Chemical addition.~~

20 (4) ~~Contaminant removal.~~

21 (5) ~~Conventional treatment.~~

22 (6) ~~Demineralization.~~

23 (7) ~~Disinfection.~~

24 (8) ~~Filtration.~~

25 (9) ~~Fluoridation.~~

26 (10) ~~Ion exchange.~~

27 (11) ~~pH adjustment.~~

28 (12) ~~Pre- and post-treatment.~~

29 (13) ~~Reverse osmosis.~~

30 ~~SEC. 2.~~

31 *SECTION 1.* Section 106897 of the Health and Safety Code is  
32 amended to read:

33 106897. The state board shall issue a water treatment operator  
34 certificate and water distribution operator certificate by reciprocity  
35 to any person holding a valid, unexpired, comparable certification  
36 or qualification issued by another state, the United States, a territory  
37 or tribal government that has been designated as the primacy  
38 agency by the United States Environmental Protection Agency, or  
39 a unit of any of these. The state board may, by regulations,  
40 prescribe the procedures and requirements for issuing a water

1 treatment operator certificate and water distribution operator  
2 certificate by reciprocity.

3 ~~SEC. 3.~~

4 *SEC. 2.* Section 106898 of the Health and Safety Code is  
5 amended to read:

6 106898. (a) The state board shall appoint an advisory  
7 committee to assist it in carrying out its responsibilities pursuant  
8 to this article. The advisory committee shall review all proposed  
9 regulations and make recommendations to the state board before  
10 the adoption of a regulation or an amendment to a regulation.

11 (b) The advisory committee shall consist of the following  
12 members:

13 (1) Two persons from a statewide organization representing  
14 medium to large water systems.

15 (2) Two persons from a statewide organization representing  
16 small water systems.

17 (3) One person from a local primacy agency.

18 (4) One person who is employed as an operator at a water  
19 recycling treatment plant.

20 (5) One person from an educational institution's school or  
21 division of engineering.

22 (6) One person who is a member of an organized labor union  
23 that represents water treatment operators and water distribution  
24 operators.

25 (7) One person who is employed by an educational institution,  
26 professional association, public agency, or private agency to  
27 provide water treatment or water distribution courses of instruction.

28 (8) One person who is a professional engineer specializing in  
29 sanitary engineering.

30 (9) One person who is an active or former member of the United  
31 States military who is working or who has previously worked in  
32 a water or wastewater treatment operations classification within  
33 their military service.

34 ~~SEC. 4.~~

35 *SEC. 3.* Section 106911 is added to the Health and Safety Code,  
36 to read:

37 106911. The Legislature finds and declares as follows:

38 (a) Water and wastewater treatment and operation is a  
39 well-established industry with an aging workforce.

(b) To encourage water operator advancement and cross-training and to attract skilled workers to the water and wastewater industry fields, California operator certification requirements should recognize a broad range of experience and ~~qualifications~~ *qualifications, including experience and education gained during active military service*, that provide the needed skill sets, while ensuring high standards for water and wastewater operators.

~~(c) Workers in the water and wastewater industry process water from a variety of sources to make it safe for drinking or to be returned to the environment.~~

~~(d) When wastewater is reused for beneficial use, ensuring protection of public health is of highest importance.~~

~~(e) Operations of advanced water treatment facilities require similar skill sets for both direct production of domestic water supplies and treatment of wastewater. Operations of recycled water distribution systems and potable distribution systems require similar skill sets.~~

~~(f) To attract employees with the necessary technical skills to the water and wastewater industries, the state board should expand the allowable experience to qualify operators to obtain water and wastewater certification.~~

~~SEC. 5.~~

~~SEC. 4.~~ Section 106912 is added to the Health and Safety Code, to read:

106912. (a) When applying for certification by the state board as a water treatment operator, distribution system operator, or wastewater operator, operators of complex industrial facilities, including members of the military and military service veterans, shall receive full equivalent experience credit and education credit for work and tasks performed that are directly related to the operation of water or wastewater facilities.

(b) Experience credit includes work during military service that is applicable to work performed by a certified operator in California. Applicable work may include, but is not limited to, the following:

- (1) Operation of similar water treatment processes.
- (2) Operation and management of supervisory control and data acquisition (SCADA) systems and automation.
- (3) Troubleshooting equipment failures.
- (4) Management of water quality.



(5) Operation and maintenance of equipment such as pumps, motors, compressors, chemical feed systems, valves, actuators, and meters.

(6) Calibration of on-line analyzers.

(c) Education credit translated to the equivalent college semester unit, continuing education units, education points, or any combination of these, shall be given for military veterans who obtained and served in military occupational specialties, including, but not limited to, the following:

(1) United States Air Force Specialty Code: 3E4X1 – Water and Fuel Systems Maintenance.

(2) United States Army military occupational specialty: 92W Water Treatment Specialist.

(3) United States Coast Guard Ratings: Damage Controlman, Machinery Technician, or Marine Science Technician.

(4) United States Navy Rating: Machinist Mate, Machinist Mate (Nuclear), or Utilitiesman.

(5) United States Marines military occupational specialty: 1171 Water Support Technician.

SEC. 6. ~~Section 106913 is added to the Health and Safety Code, to read:~~

~~106913. (a) For purposes of water treatment operator certification experience, a treatment plant using advanced water treatment processes that treats water of wastewater origin for purposes of water reuse, shall be considered to provide equivalent experience to working at a water treatment plant at the levels indicated as follows:~~

~~(1) A treatment plant that uses advanced treatment processes for nonpotable reuse shall be considered at least equivalent to a T3 facility.~~

~~(2) A treatment plant that uses advanced treatment processes for potable reuse through groundwater recharge, reservoir augmentation, or augmentation of raw water supplies shall be considered at least equivalent to a T4 plant.~~

~~(3) A treatment plant that uses advanced treatment processes for potable reuse through augmentation of treated water supplies shall be considered equivalent to a T5 plant.~~

~~(b) For purposes of water distribution operator certification experience, operation of a recycled water distribution system shall~~

1 ~~be considered to provide equivalent experience to operating a~~  
2 ~~potable distribution system.~~

3 ~~(e) For any of the experience requirements for certification as~~  
4 ~~a T3 operator or D3 operator, a treatment or distribution operator~~  
5 ~~may substitute any of the following:~~

6 ~~(1) Day to day experience gained working with lead~~  
7 ~~responsibility for water quality related projects or research.~~

8 ~~(2) Day to day experience in industrial facilities, including~~  
9 ~~material facilities and vessels, with responsibility for operations~~  
10 ~~of similar treatment process technologies.~~

11 ~~(3) Registration as a professional engineer in California in civil~~  
12 ~~engineering, chemical engineering, or mechanical engineering,~~  
13 ~~and work experience related to water and wastewater operations.~~

14 ~~(d) For the purposes of this section, operator certificate grades~~  
15 ~~have the meanings provided in Chapter 13 (commencing with~~  
16 ~~Section 63750.10) of Title 22 of the California Code of~~  
17 ~~Regulations.~~

**Introduced by Senator Caballero**February 21, 2019

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An act to add and repeal Section 228.5 of the Water Code, relating to water resources, and making an appropriation therefor.

**LEGISLATIVE COUNSEL'S DIGEST**

SB 487, as introduced, Caballero. Department of Water Resources: aerial snow survey.

Existing law requires the Department of Water Resources to gather and correlate information and data pertinent to an annual forecast of seasonal water crop, including the making of snow surveys, either independently or in cooperation with any person or any county, state, federal, or other agency. Existing law also requires the Department of Water Resources to update every 5 years the plan for the orderly and coordinated control, protection, conservation, development, and use of the water resources of the state, which is known as The California Water Plan.

This bill would require the department's California snow survey program to conduct aerial surveys of the snowpack in the Trinity Alps and Sierra Nevada Mountains, including hydrologic areas that drain or supply water to certain major reservoirs and lakes. The bill would require the department to collect the aerial survey data up to 10 times per year in each hydrologic area and to summarize and make publicly available the data obtained and digital products used to produce runoff forecasts, as specified. The bill would continuously appropriate \$150 million from the General Fund to the department for these purposes with \$15 million being allocated for expenditure each fiscal year.

This bill would make these provisions inoperative on July 1, 2029, and would repeal them as of January 1, 2030.

Vote:  $\frac{2}{3}$ . Appropriation: yes. Fiscal committee: yes.  
State-mandated local program: no.

*The people of the State of California do enact as follows:*

1 SECTION 1. The Legislature finds and declares the following:

2 (a) The State of California has been a global leader in snowpack  
3 measurement and monitoring and runoff forecasting since it  
4 launched the snow survey program in 1929, providing water  
5 managers critical information needed to make daily decisions about  
6 how to operate our water infrastructure to serve water supply and  
7 public safety needs.

8 (b) During the past century, demands on California's water  
9 system and water supply have increased due to factors such as the  
10 growth of population centers and industries, changing societal  
11 values and priorities for protecting fish and wildlife, and greater  
12 variability in the climate.

13 (c) Conventional snow surveys provide useful data to natural  
14 resource managers but have limitations, such as inaccessibility of  
15 wilderness areas, and result in estimates of snowpack with a margin  
16 of error of up to 60 percent.

17 (d) Greater accuracy is needed in order to maximize the efficient  
18 operation of reservoirs to meet competing demands for water in a  
19 changing climate, as more accurate runoff predictions would  
20 prevent unnecessary releases of water to create flood space,  
21 effectively creating new storage in upstream reservoirs.

22 (e) Better information about tree health, moisture content, and  
23 other conditions of California's forests and watersheds will be  
24 critical for targeting key areas where additional forest management  
25 and fuel reduction activities can help reduce the risk of catastrophic  
26 wildfires, especially under future climate change.

27 (f) Since 2013, local and regional agencies relying on the Sierra  
28 Nevada watershed have collaborated to fund operations of the  
29 Airborne Snow Observatory, a snow survey and forecasting  
30 technology developed by the National Aeronautics and Space  
31 Administration, the Jet Propulsion Laboratory, and the United  
32 States Department of Agriculture's Agricultural Research Service.

33 (g) The Airborne Snow Observatory is capable of measuring  
34 snow depths at several points in every square meter of a watershed,



1 as opposed to conventional surveys that rely on a few hundred  
2 monitoring locations to cover more than 40,000 miles.

3 (h) When combined with conventional measurements from  
4 California's snow survey program, data generated through the  
5 Airborne Snow Observatory has resulted in runoff forecasts that  
6 are 96 percent to 98 percent accurate, and this data is already in  
7 use by the Department of Water Resources' flood control  
8 forecasters and federal water supply and habitat restoration  
9 programs.

10 (i) Data gathered through the Airborne Snow Observatory  
11 surveys has broad application and use beyond water supply, flood  
12 management, and forest management, including for assessing  
13 seismic risk, fire management, transportation planning, and  
14 recreation.

15 (j) For fiscal year 2019, operations of the Airborne Snow  
16 Observatory program have been funded by local water users and  
17 the Department of Water Resources through a Proposition 1 flood  
18 grant.

19 SEC. 2. Section 228.5 is added to the Water Code, to read:

20 228.5. (a) The department's California snow survey program  
21 shall conduct aerial surveys of the snowpack in the Trinity Alps  
22 and Sierra Nevada Mountains, including hydrologic areas that  
23 drain or supply water to the following major reservoirs and lakes:

- 24 (1) Don Pedro Reservoir.
- 25 (2) Englebright Lake.
- 26 (3) Folsom Lake.
- 27 (4) Lake Isabella.
- 28 (5) Lake Kaweah.
- 29 (6) Lake McClure.
- 30 (7) Lake Oroville.
- 31 (8) Lake Success.
- 32 (9) Lake Tahoe.
- 33 (10) Millerton Lake.
- 34 (11) New Melones Lake.
- 35 (12) Owens Lake.
- 36 (13) Pardee Reservoir.
- 37 (14) Pine Flat Reservoir.
- 38 (15) Shasta Lake.
- 39 (16) Trinity Lake.

1 (b) The department shall collect the aerial survey data described  
2 in subdivision (a) up to 10 times per year in each hydrologic area,  
3 depending on the extent of the snow cover, with the objective of  
4 informing Bulletin 120 runoff forecasts for the State of California  
5 and providing data for other public benefits and uses.

6 (c) The department may contract with the National Aeronautics  
7 and Space Administration or a private entity, if necessary, to  
8 complete the surveys of the snowpack pursuant to this section.

9 (d) The department shall summarize the data obtained through  
10 the snow surveys conducted pursuant to this section and post a  
11 summary on the department's Internet Web site. The department  
12 shall make the summaries available publicly within 30 days of  
13 collection for use by public agencies and any other interested  
14 parties. The department, in a manner determined by the department,  
15 shall make publicly available any digital products, such as  
16 computer models, used to produce runoff forecasts.

17 (e) Notwithstanding Section 13340 of the Government Code,  
18 the sum of one hundred fifty million dollars (\$150,000,000) is  
19 hereby continuously appropriated, without regard to fiscal years,  
20 from the General Fund to the department for the purposes of this  
21 section provided, however, that fifteen million dollars  
22 (\$15,000,000) of this appropriation shall be allocated for  
23 expenditure each fiscal year.

24 (f) This section shall become inoperative on July 1, 2029, and,  
25 as of January 1, 2030, is repealed.



AGENDA NO.  
MEETING DATE

11.  
May 14, 2019

TITLE ORDINANCE AMENDING RETIREMENT ORDINANCE NO. 40

☐ MOTION ☐ RESOLUTION ☒ ORDINANCE

### RECOMMENDED ACTION

Conduct a second and final reading, and vote on an ordinance amending Section 21 of the EBMUD Employees' Retirement System Ordinance (Ordinance No. 40) to update the actuarially assumed rate of return (ROR) from 7.25 percent to 7.00 percent.

### SUMMARY

Section 21 of the Retirement Ordinance provides for an optional modification of a member's retirement allowance. Optional benefits are calculated using the actuarial equivalent of the member's retirement allowance, which is determined using the actuarially assumed ROR and mortality tables. The actuarially assumed ROR is also used to determine the value of cash-outs, the posting of interest to employee accounts, and the actuarial valuation and impacts to employer contribution rates. The actuarially assumed ROR has been updated pursuant to the recommendation of the Retirement System's actuary. It is recommended that Section 21 of the Retirement Ordinance be amended to reflect the adopted actuarially assumed ROR, in compliance with the 2010 Economic Growth and Tax Relief Reconciliation Act of 2001 (EGTRRA) rules which clarified that the actuarially assumed ROR used to determine optional forms of benefits be specified.

### DISCUSSION

Section 21 of the Retirement Ordinance provides members with the option to receive the actuarial equivalent of his or her retirement allowance in the form of a lesser retirement allowance in order to provide for a greater benefit to a beneficiary. One factor used to determine the actuarial equivalent of the allowance is the actuarially assumed ROR.

Since 2011, the actuarially assumed ROR has been lowered four times in quarter percent steps (from 8.25 to 8.0, 7.75, 7.50 and 7.25). At its September 20, 2018 meeting, the Retirement Board adopted the actuaries' recommendation to change the actuarially assumed ROR from 7.25 percent to 7.00 percent. The reduction in the actuarially assumed ROR reflects the expectations that investment returns may be lower in the future. This reduction was recommended to the Retirement Board as part of the June 30, 2018 Actuarial Evaluation.

Funds Available: FY		Budget Code:
DEPARTMENT SUBMITTING Human Resources	DEPARTMENT MANAGER or DIRECTOR  Laura A. Acosta	APPROVED  General Manager

Contact the Office of the District Secretary with questions about completing or submitting this form.

Staff recommends the Board amend the Retirement Ordinance to reflect the change in the actuarially assumed ROR to 7.00 percent.

## **SCHEDULE**

The amendments to the Retirement Ordinance to update the actuarially assumed ROR to 7.00 percent must take effect on July 1, 2019. To meet this deadline, the first reading of this Ordinance occurred at the meeting of the Board of Directors on April 23, 2019. The final action is scheduled with the second reading and vote to approve the ordinance change at the meeting of the Board of Directors on May 14, 2019. The ordinance amendments take effect 30 days after the revised ordinance's passage, and the Municipal Utility District Act requires the amendments be published once a week for two successive weeks in a newspaper of general circulation published in the District.

## **SUSTAINABILITY**

### **Economic**

The action of the Retirement Board to follow the recommendation of the actuaries to lower the actuarially assumed ROR helps to ensure the long-term stability of the Retirement System. Approval of this Ordinance will allow the Retirement Ordinance to be updated and remain in compliance with Internal Revenue Service Regulations, lowering the risk of fines or other economic risks related to non-compliance.

### **Social**

The unions were notified of the change to the actuarially assumed ROR referenced in the proposed Retirement Ordinance amendment at the Retirement Board meeting on September 20, 2018, followed by an email notification on April 9, 2019. To date, the unions have not expressed any concerns.

## **ALTERNATIVE**

**Do not approve amendments to the Ordinance.** This alternative is not recommended because the Retirement Ordinance would become out of compliance without this update.



ORDINANCE NO. \_\_\_\_\_

AN ORDINANCE, EFFECTIVE AS OF JULY 1, 2019, AMENDING SECTION 21, "OPTIONAL MODIFICATION OF RETIREMENT ALLOWANCE," TO ORDINANCE NO. 40, WHICH IS THE EMPLOYEES' RETIREMENT SYSTEM ORDINANCE

Introduced by Director

; Seconded by Director

BE IT ENACTED by the Board of Directors of the East Bay Municipal Utility District that Ordinance No. 40, which is entitled "AN ORDINANCE ESTABLISHING A RETIREMENT SYSTEM FOR EMPLOYEES OF EAST BAY MUNICIPAL UTILITY DISTRICT, PROVIDING FOR THE PAYMENT OF RETIREMENT ALLOWANCES TO MEMBERS OF THE RETIREMENT SYSTEM, FOR THE PAYMENT OF DEATH BENEFITS AND SURVIVORSHIP BENEFITS, AND FOR THE COST OF LIVING ADJUSTMENT, PRESCRIBING THE CONDITIONS UNDER WHICH SAID ALLOWANCES AND BENEFITS SHALL BE PAID, DETERMINING RATES OF CONTRIBUTION AND THE AMOUNTS OF RETIREMENT ALLOWANCES, DEATH BENEFITS AND SURVIVORSHIP BENEFITS, AND THE PERCENTAGE OF COST OF LIVING ADJUSTMENT, AND PROVIDING FOR THE ADMINISTRATION OF SAID RETIREMENT SYSTEM," as amended from time to time, is further amended as follows:

1. Section 21 of this Ordinance, entitled "Optional Modification of Retirement Allowance," shall be amended as follows:

(a) Within sixty (60) days prior to the date of retirement for disability, a Member may elect to receive the actuarial equivalent of his or her Retirement Allowance as of the date of retirement in the form of a lesser Retirement Allowance payable throughout life with the following option:

If he or she dies before he or she receives in Annuity payments the amount of his or her Accumulated Retirement Contributions as it stood at his or her retirement, the balance of such Accumulated Contributions shall be paid to his or her Beneficiary or, in the absence of a named Beneficiary then living, to his or her estate.

(b) Within sixty (60) days prior to the date of retirement for service, a Member may elect to receive the actuarial equivalent of his or her Retirement Allowance as of the date of retirement in the form of a lesser Retirement Allowance payable throughout life, with one of the following options:

Option 1: If he or she dies before he or she receives in Annuity payments the amount of his or her Accumulated Retirement Contributions as it stood at his or her retirement, the balance of such Accumulated Contributions shall be paid to his or her Beneficiary or, in the absence of a named Beneficiary then living, to his or her estate.

Option 2: Upon his or her death, his or her lesser Retirement Allowance shall be continued throughout the life of and paid to the person nominated by him or her, effective with the first day of the month following the date of his or her death.

Option 3: Upon his or her death, one-half of his or her lesser Retirement Allowance shall be continued throughout the life of and paid to the person nominated by him or her, effective with the first day of the month following the date of his or her death.

Option 4: Upon his or her death, one-fourth of his or her lesser Retirement Allowance shall be continued throughout the life of and paid to the person nominated by him or her, effective with the first day of the month following the date of his or her death.

(c) Election of any option must be in writing signed by the Member and filed with the Secretary of the Retirement Board within sixty (60) days prior to his or her retirement. A Member shall have no right to change the basis of his or her Retirement Allowance after the effective date of his or her retirement, except as provided in Subsections (d) and (f).

(d) If a Member has elected to receive a Retirement Allowance under this Section, and the named Beneficiary dies before the Member's first Retirement Allowance payment is due, said Member may elect to receive a Retirement Allowance computed in accordance with provisions of this Section or provisions of Section 15.

(e) Where no option is selected, a Member, upon retirement for service or disability, shall be entitled to receive a Retirement Allowance during his or her lifetime only, and all rights of said Member or of any other person or persons claiming under him or her, except the right to his or her Retirement Allowance which is payable for the month in which his or her death occurred, and the right to a survivorship benefit as provided in Section 20(c) shall cease with his or her death; provided, however, that if the Retired Member dies before his or her first Retirement Allowance is due, his or her Accumulated Contributions shall be paid to his or her Beneficiary or, in the absence of a named Beneficiary then living, to his or her estate.

(f) Upon the death of a Retired Member, or upon the death of a person receiving an allowance under Option 2, Option 3, or Option 4, the full amount of the Retirement Allowance covering the month in which he or she died shall be paid to his or her Beneficiary or, in the absence of a named Beneficiary then living, to his or her estate.

(g) For purposes of this Section, the term "actuarial equivalent" means two or more optional forms of distribution that have the same present value as determined using the actuarial assumptions approved from time to time by the Retirement Board upon the recommendation of the Retirement System's actuary for determining System liabilities and incorporated into this Section.

The actuarial assumptions are the following:

(1) Rate of Return: 7.00% effective July 1, 2019; and

(2) Mortality Table:

(A) Service Retirement:

(i) Member: Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males weighted 75% and set forward one year for females and weighted 25%; and

(ii) Beneficiary: Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and weighted 25% and set forward one year for females and weighted 75%; and

(B) Disability Retirement:

(i) Member: Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward nine years for males and weighted 75% and set forward nine years for females and weighted 25%; and

(ii) Beneficiary: Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and weighted 25% and set forward one year for females and weighted 75%.

2. This Ordinance shall become effective and in full force and effect at 12:01 a.m. on the thirty-first day after its passage.

\_\_\_\_\_  
President

I HEREBY CERTIFY that the foregoing Ordinance was duly and regularly introduced at a regular meeting of EAST BAY MUNICIPAL UTILITY DISTRICT held on April 23, 2019, at the offices of said District, 375 - 11th Street, Oakland, California, and thereupon, after being read, further action was scheduled for the regular meeting of said Board of Directors held at the same place on May 14, 2019, at which time the same was finally adopted by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

ATTEST:

\_\_\_\_\_  
Secretary

APPROVED AS TO FORM AND PROCEDURE:

\_\_\_\_\_  
General Counsel

{00036528}



ORDINANCE NO. \_\_\_\_\_

AN ORDINANCE, EFFECTIVE AS OF JULY 1, 2019, AMENDING SECTION 21, "OPTIONAL MODIFICATION OF RETIREMENT ALLOWANCE," TO ORDINANCE NO. 40, WHICH IS THE EMPLOYEES' RETIREMENT SYSTEM ORDINANCE

Introduced by Director

; Seconded by Director

BE IT ENACTED by the Board of Directors of the East Bay Municipal Utility District that Ordinance No. 40, which is entitled "AN ORDINANCE ESTABLISHING A RETIREMENT SYSTEM FOR EMPLOYEES OF EAST BAY MUNICIPAL UTILITY DISTRICT, PROVIDING FOR THE PAYMENT OF RETIREMENT ALLOWANCES TO MEMBERS OF THE RETIREMENT SYSTEM, FOR THE PAYMENT OF DEATH BENEFITS AND SURVIVORSHIP BENEFITS, AND FOR THE COST OF LIVING ADJUSTMENT, PRESCRIBING THE CONDITIONS UNDER WHICH SAID ALLOWANCES AND BENEFITS SHALL BE PAID, DETERMINING RATES OF CONTRIBUTION AND THE AMOUNTS OF RETIREMENT ALLOWANCES, DEATH BENEFITS AND SURVIVORSHIP BENEFITS, AND THE PERCENTAGE OF COST OF LIVING ADJUSTMENT, AND PROVIDING FOR THE ADMINISTRATION OF SAID RETIREMENT SYSTEM," as amended from time to time, is further amended as follows:

1. Section 21 of this Ordinance, entitled "Optional Modification of Retirement Allowance," shall be amended as follows:

(a) Within sixty (60) days prior to the date of retirement for disability, a Member may elect to receive the actuarial equivalent of his or her Retirement Allowance as of the date of retirement in the form of a lesser Retirement Allowance payable throughout life with the following option:

If he or she dies before he or she receives in Annuity payments the amount of his or her Accumulated Retirement Contributions as it stood at his or her retirement, the balance of such Accumulated Contributions shall be paid to his or her Beneficiary or, in the absence of a named Beneficiary then living, to his or her estate.

(b) Within sixty (60) days prior to the date of retirement for service, a Member may elect to receive the actuarial equivalent of his or her Retirement Allowance as of the date of retirement in the form of a lesser Retirement Allowance payable throughout life, with one of the following options:

Option 1: If he or she dies before he or she receives in Annuity payments the amount of his or her Accumulated Retirement Contributions as it stood at his or her retirement, the balance of such Accumulated Contributions shall be paid to his or her Beneficiary or, in the absence of a named Beneficiary then living, to his or her estate.

Option 2: Upon his or her death, his or her lesser Retirement Allowance shall be continued throughout the life of and paid to the person nominated by him or her, effective with the first day of the month following the date of his or her death.

Option 3: Upon his or her death, one-half of his or her lesser Retirement Allowance shall be continued throughout the life of and paid to the person nominated by him or her, effective with the first day of the month following the date of his or her death.

Option 4: Upon his or her death, one-fourth of his or her lesser Retirement Allowance shall be continued throughout the life of and paid to the person nominated by him or her, effective with the first day of the month following the date of his or her death.

(c) Election of any option must be in writing signed by the Member and filed with the Secretary of the Retirement Board within sixty (60) days prior to his or her retirement. A Member shall have no right to change the basis of his or her Retirement Allowance after the effective date of his or her retirement, except as provided in Subsections (d) and (f).

(d) If a Member has elected to receive a Retirement Allowance under this Section, and the named Beneficiary dies before the Member's first Retirement Allowance payment is due, said Member may elect to receive a Retirement Allowance computed in accordance with provisions of this Section or provisions of Section 15.

(e) Where no option is selected, a Member, upon retirement for service or disability, shall be entitled to receive a Retirement Allowance during his or her lifetime only, and all rights of said Member or of any other person or persons claiming under him or her, except the right to his or her Retirement Allowance which is payable for the month in which his or her death occurred, and the right to a survivorship benefit as provided in Section 20(c) shall cease with his or her death; provided, however, that if the Retired Member dies before his or her first Retirement Allowance is due, his or her Accumulated Contributions shall be paid to his or her Beneficiary or, in the absence of a named Beneficiary then living, to his or her estate.

(f) Upon the death of a Retired Member, or upon the death of a person receiving an allowance under Option 2, Option 3, or Option 4, the full amount of the Retirement Allowance covering the month in which he or she died shall be paid to his or her Beneficiary or, in the absence of a named Beneficiary then living, to his or her estate.

(g) For purposes of this Section, the term "actuarial equivalent" means two or more optional forms of distribution that have the same present value as determined using the actuarial assumptions approved from time to time by the Retirement Board upon the recommendation of the Retirement System's actuary for determining System liabilities and incorporated into this Section.

The actuarial assumptions are the following:

- (1) Rate of Return: ~~7.75% effective July 1, 2013 and 7.50% effective as of July 1, 2015; and 7.50% effective July 1, 2015 and 7.25% effective as of July 1, 2017~~ 7.00% effective July 1, 2019; and
- (2) Mortality Table:
  - (A) Service Retirement:
    - (i) Member: Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males weighted 75% and set forward one year for females and weighted 25%; and
    - (ii) Beneficiary: Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and weighted 25% and set forward one year for females and weighted 75%; and
  - (B) Disability Retirement:
    - (i) Member: Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward nine years for males and weighted 75% and set forward nine years for females and weighted 25%; and
    - (ii) Beneficiary: Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and weighted 25% and set forward one year for females and weighted 75%.

2. This Ordinance shall become effective and in full force and effect at 12:01 a.m. on the thirty-first day after its passage.

I HEREBY CERTIFY that the foregoing Ordinance was duly and regularly introduced at a regular meeting of EAST BAY MUNICIPAL UTILITY DISTRICT held on April 23, 2019, at the offices of said District, 375 - 11th Street, Oakland, California, and thereupon, after being read, further action was scheduled for the regular meeting of said Board of Directors held at the same place on May 14, 2019, at which time the same was finally adopted by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

---

President

ATTEST:

---

Secretary

APPROVED AS TO FORM AND PROCEDURE:

---

General Counsel





AGENDA NO.

12.1-12.2

MEETING DATE

May 14, 2019

**TITLE**      **REPORT AND RECOMMENDATION OF THE GENERAL MANAGER FISCAL YEARS 2020 AND 2021 REVISIONS TO THE WATER AND WASTEWATER SYSTEM SCHEDULE OF RATES AND CHARGES, CAPACITY CHARGES AND OTHER FEES**

☒ MOTION      ☐ RESOLUTION      ☐ ORDINANCE

### RECOMMENDED ACTION

- 1) File the General Manager's Report and Recommendation for revisions to the Water and Wastewater System Schedule of Rates and Charges, Capacity Charges and Other Fees.
- 2) Set a Public Hearing for Tuesday, June 11, 2019, during the Board's regular meeting to consider the report and recommendation, and to comply with Proposition 218 requirements.

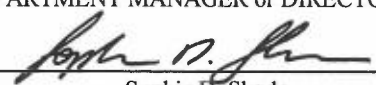

Adoption of the FY20 and FY21 proposed rates and charges is also scheduled for Board consideration at its meeting of June 11, 2019.

### SUMMARY

The Report and Recommendation of the General Manager for revisions to the rates, charges and fees includes the following revisions for FY20 and FY21:

#### Water System

- Rate Schedule for Water Service\*
- Account Establishment Charge
- Charges for Special Services
- Water Service Installation Charges
- Private Fire Service Installation Charges
- Public Fire Hydrant Installation Charges
- Water Main Extension Charges
- System Capacity Charge
- Public Records Act Fee Schedule
- Real Property Use Application Fees
- Recreation Use Fees

Funds Available FY:		Budget Code:
DEPARTMENT SUBMITTING	DEPARTMENT MANAGER or DIRECTOR	APPROVED
Finance	 Sophia D. Skoda	 General Manager

Contact the Office of the District Secretary with questions about completing or submitting this form.

Wastewater System

- Rates for Treatment Service\*
- Wet Weather Facilities Charge\*
- Industrial Permit Fees
- Other Fees (Monitoring, Violation Follow-up, and Private Sewer Lateral Compliance)
- Testing Fees
- Rates for Resource Recovery Material Treatment
- Capacity Fees
- Wastewater Interceptor Connection Review, Coordination and Inspection Fee

Water Service Regulations

- Section 12 – Non-registering and Unreadable Meters and Meter Protection

\*Subject to Proposition 218 procedural and substantive requirements.

Attachment

I:\Sec\2019 Board Related Items\051419 Board Agenda Items\FIN - BD1 File Rates Report 051419.doc



*East Bay Municipal Utility District  
Oakland, California*

# Biennial Report and Recommendation of The General Manager Fiscal Years 2020 & 2021

*Revisions to the Water and  
Wastewater System  
Schedule of Rates and  
Charges, Capacity Charges,  
and Other Fees*





**East Bay Municipal Utility District**  
Biennial Report and  
Recommendation of the  
General Manager  
Fiscal Years 2020 and 2021

Revisions to the Water and Wastewater System  
Schedule of Rates and Charges, Capacity Charges,  
and Other Fees

*Presented to the Board of Directors  
by Alexander R. Coate, General Manager on  
May 14, 2019*



# East Bay Municipal Utility District

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## **East Bay Municipal Utility District**

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#### **CHAPTER 6 – APPENDIX**

##### **Appendix A – Fiscal Years 2020 and 2021 Update to: East Bay Municipal Utility District Water and Wastewater Cost of Service Study**



## EAST BAY MUNICIPAL UTILITY DISTRICT

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DATE: May 9, 2019

MEMO TO: Board of Directors

FROM: Alexander R. Coate, General Manager *ARC*

SUBJECT: Biennial Report and Recommendation of the General Manager Fiscal Years 2020 & 2021 Revisions to the Water and Wastewater System Schedule of Rates and Charges, Capacity Charges and Other Fees

Every two years, the District develops a report with recommendations on revisions to the District's rates and charges for the water and wastewater systems that are subject to California Constitution Article XIII D, Section 6 (commonly known as Proposition 218). The District's proposed Fiscal Years 2020 and 2021 (FY20 and FY21) water and wastewater system charges subject to Proposition 218 were presented to the Board along with the proposed FY20 and FY21 operating and capital budgets at the March 26, 2019 Budget Workshop No. 2. At that workshop, the Board also received a draft copy of the Proposition 218 notice which, among other items, provides information about the public hearing on the proposed revisions to the District's water and wastewater system charges. The public hearing is scheduled for June 11, 2019.

The attached report summarizes all proposed changes to rates and charges subject to Proposition 218 and other fees and charges not subject to Proposition 218. The proposed charges are designed to meet Board policy goals and recover costs identified in the proposed FY20 and FY21 operating and capital budgets. In preparation for the FY20 and FY21 budget and rates determination, two Board workshops were held this year (on January 22 and March 26) to discuss details of the proposed budget, including staffing, capital projects, water sales projections and rate sensitivities.

To determine the appropriate rates needed to support the costs identified in the FY20 and FY21 budgets, the District hired an independent rate consultant in 2015 and 2019 to perform cost of service (COS) studies for its water and wastewater systems. The COS studies ensure charges are appropriately and equitably established, in compliance with California law including Proposition 218. The proposed FY20 and FY21 rates incorporate the results of the COS studies as well as the increased revenue required to address proposed FY20 and FY21 expenditures.

Recommended changes to rates, charges and fees for the water system are:

*Water System Rates and Charges:*

- Increase water charges (service, flow, elevation, and private fire service) 6.5 percent overall for FY20 and an additional 6.25 percent overall for FY21. These increases support the proposed FY20 and FY21 operating and capital expenses.
- Maintain the staged system of Drought Surcharges developed in the District's COS study as a contingency plan in the event of a water shortage. The Drought Surcharge percentage is

imposed on the potable Water Flow Charge when the Board declares a drought Stage 2, 3, or 4.

*Other Water Fees and Charges:*

- Implement proposed changes to Schedule B – Account Establishment Charge and Schedule C – Charges for Special Services. The changes increase each charge in these schedules to reflect current costs.
- Implement proposed changes to Schedule D – Water Service Installation Charges, Schedule E – Private Fire Service Installation Charges, Schedule F – Public Fire Hydrant Installation Charges, and Schedule G – Water Main Extension Charges. The changes increase each charge in these schedules to reflect current costs and the second year of a three year phased-in increase approved by the Board in 2018.
- Modify Schedule J – System Capacity Charge (SCC) to clarify when the standard SCC rate tables can be used for non-residential service connections for meters less than 2 inches. Maintain the current rates in Schedule J.
- Update the Real Property Use Application Fees, Recreation Use Fees and Public Records Act Fee Schedules for specific fee changes.
- Modify Water Service Regulations Section 12 – Non-registering and Unreadable Meters and Meter Protection to update and clarify District service regulations.

The proposed increases to rates and charges for the water system in FY20 and FY21 are lower than the projections made in FY17 when the FY18 and FY19 biennial budget was adopted. At that time, it was projected that water system charges in FY20 and FY21 would need to increase by 7.0 percent each year. The proposed water system charges are lower than originally projected due to two factors: actual revenues in FY18 and projected revenues for FY19 exceed budgeted amounts, which reduced the amount of debt issued to fund the capital program; and projected increases in non-rate revenues in FY20 and FY21.

District revenues depend on water usage. The proposed charges are based on the assumption that water consumption will be 141 million gallons per day (MGD) in FY20 and 143 MGD in FY21. This is about two percent lower than the water consumption projected for FY20 and FY21 at the time the FY18 and FY19 biennial budget was adopted. Despite the end of the recent drought and lifting of water restrictions, the District expects customers to maintain many of their conservation habits.

Following the most recent drought, the average residential water user now consumes 8 hundred cubic feet (CCF) per month (about 200 gallons per day) as compared to 10 CCF in FY13 and 12 CCF in FY07. The average 8 CCF residential user will see an increase of \$3.62 per month (6.5 percent) in FY20 from \$56.12 to \$59.74 and an increase of \$3.73 per month (6.2 percent) in FY21 from \$59.74 to \$63.47. The overall impact to individual customers will vary depending on their actual water consumption.



As part of long-term financial stability efforts, the District developed a staged system of Drought Surcharges to recover water shortage-related costs, which was implemented during the Stage 4 Drought in FY16. Under this staged system, the Drought Surcharge rises as the severity of the water shortage increases (i.e., Stage 1 – 0 percent; Stage 2 – up to 8 percent; Stage 3 – up to 20 percent; Stage 4 – up to 25 percent on the Water Flow Charge). The District does not anticipate a water shortage in FY20 or FY21 as a result of the high levels of water currently in storage from recent storms and reduced customer demand. However, the Drought Surcharge percentages that were developed in the 2015 COS study and adopted and implemented for FY16 will remain in effect as a contingency plan in the event of a water shortage. If a water shortage occurs, the District will update the drought-related costs and develop and adopt Drought Surcharges based on the updated COS study. Any Drought Surcharges imposed will be consistent with the existing staged system.

Recommended changes to rates, charges and fees for the wastewater system are:

*Wastewater Treatment Charges and Wet Weather Facilities Charge:*

- Modify the wastewater system charges for FY20 to include the 2019 Wastewater COS study adjustments, which result in some wastewater rates and charges decreasing and others increasing.
- Increase the proposed rates for FY20 wastewater system charges an additional 4.0 percent for FY21. The FY20 and FY21 wastewater rate increases support the District's proposed FY20 and FY21 operating and capital expenses and meet Board policy goals.

*Other Wastewater Fees and Charges:*

- Implement increases to the Wastewater Discharge Permit and Estimation Permit Fees in Schedule C – Wastewater Department Industrial Permit Fees, Monitoring Fee, Violations Fees and Private Sewer Lateral Compliance Fees in Schedule D – Wastewater Department Other Fees to reflect actual costs.
- Update the Laboratory Test Charges in Schedule E – Wastewater Department Testing Fees to reflect actual costs.
- Change the FY20 fees and rates for the Resource Recovery Material Treatment in Schedule F – Wastewater Department Rates for Resource Recovery Material Treatment to better manage the flow of trucked waste deliveries to the treatment plant.
- Update the FY20 fees in Schedule G – Wastewater Department Capacity Fees to reflect the recommendations from the 2019 Wastewater Capacity Fee study.
- Increase the FY20 fee for review, coordination and construction inspection for connections made to the interceptors in Schedule H – Wastewater Department Wastewater Interceptor Connection Review, Coordination and Inspection Fee to reflect actual costs.

The proposed wastewater system increases are consistent with the projections made in FY17, when the FY18 and FY19 biennial budget was adopted. At that time, it was projected that wastewater system charges in FY20 and FY21 would need to increase by 4.0 percent and 4.0 percent, respectively. The wastewater system rates and charges increases for FY20 and FY21 are consistent with the levels projected for these years, largely as a result of operating cost savings and debt savings from using more cash funding and less debt financing of capital expenditures.

With the proposed FY20 and FY21 changes to the wastewater system charges, revenue collected from all wastewater system charges would increase by 4.0 percent in FY20 and an additional 4.0 percent in FY21. The impact of the proposed changes to the FY20 and FY21 wastewater system charges on customer bills will depend on the type of customer and the volume of wastewater discharge.

For the typical single-family residential homeowner who pays both the wastewater treatment charges collected on the water bill and the Wet Weather Facilities Charge collected on the property tax bill, the total proposed increase for wastewater system charges is 2.7 percent for FY20 and 4.0 percent for FY21. The changes to the FY20 wastewater service charges result in an increase of \$0.20 per month from \$21.95 to \$22.15 (0.9 percent) on the monthly wastewater charge collected on the water bill for the average residential customer. For FY21, the bill would increase \$0.87 per month from \$22.15 to \$23.02 (3.9 percent). However, the overall impact to individual customers will vary depending on their actual water consumption. The wastewater service charges collected on the water bill include the San Francisco Bay Pollution Prevention monthly fee, which remains at \$0.20 per month for FY20 and FY21 for residential customers.

In addition to the wastewater charges collected on the water bill, wastewater customers also pay a Wet Weather Facilities Charge via their property tax bill that varies with individual lot size. As a result of the 2019 Wastewater COS study adjustment, the annual Wet Weather Facilities Charge is proposed to increase 7.2 percent to \$111.24 in FY20, and 4.0 percent increase to \$115.70 in FY21 for the typical residential customer.

In compliance with Proposition 218, which established specific rules for implementing new or adjusting existing rates, the District will hold a public hearing on June 11, 2019 to consider the adoption of the charges. The Proposition 218 notice for the June 11, 2019 public hearing was sent by mail to the record owners of parcels upon which the proposed charges will be imposed and tenants directly responsible for the payment of the proposed charges (i.e., “customers” who are not property owners) at least 45 days prior to the scheduled public hearing.

Any owner of record and any customer directly liable to the District for water and/or wastewater charges may submit a written protest to the proposed increased water and wastewater system charges; however, only one written protest will be counted per identified parcel. Each protest must: (1) be in writing; (2) state the identified property owner or customer is in opposition to the proposed increases to the rates and charges for water, wastewater, or both; (3) provide the location of the identified parcel by assessor’s parcel number or street address; and (4) include the original signature of the property owner or customer submitting the protest. Written protests against the proposed increases may be personally delivered to the District, submitted at the hearing, or mailed to the District. Protests submitted by fax, email, or other electronic means, will not be counted. To be



tabulated, however, any written notice must be received by the District prior to the close of the public hearing. If a majority of the affected parcel owners or customers submit written protests, the proposed increases may not be imposed.

The Proposition 218 notice for the June 11, 2019 public hearing on the proposed increases was mailed to all parcel owners and customers by April 26, 2019 in compliance with Proposition 218 requirements.

The proposed rates and charges for the water and wastewater systems are recommended to be effective on bills issued on or after July 1, 2019 for FY20, and on or after July 1, 2020 for FY21. The customer billing system will prorate bills for water and wastewater rate increases that occur during the billing cycle. All other proposed changes to the other fees and charges for the water and wastewater systems including the changes to the Public Records Act Fees and Real Property Use Application Fees will be effective July 1, 2019. The proposed changes to the Recreation Use Fees are effective January 1, 2020 for the 2020 increases and January 1, 2021 for the 2021 increases to coincide with the recreation season.

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**1. Water System Rates,  
Charges and Fees**



# Chapter 1 – Water System Rates, Charges and Fees

## INTRODUCTION

The District updates the water system's rates, charges, and fees biennially in conjunction with the development of its biennial budget. The charges are designed to recover costs identified in the proposed operating and capital budgets and to meet Board policy goals. The District's water system rates and charges include a Water Service Charge, which is a fixed charge to the ratepayer that does not change regardless of water use, and a Water Flow Charge, which is a variable charge that rises and falls depending upon the level of water used (also known as a consumption or volumetric charge). In addition to the Water Service Charge and the Water Flow Charge, the District's water system rates and charges levied under specified circumstances include a water Elevation Surcharge, a Private Fire Service Charge, and Nonpotable/Recycled water charges, as well as a system of Drought Surcharges. The District completed a cost of service (COS) study in FY15 to ensure that all of the District's rates and charges for the water system are appropriately and equitably established, and consistent with California law including Proposition 218. The proposed overall increase to the water system's rates and charges is 6.5 percent for FY20 and 6.25 percent for FY21; however, the overall impact to individual customers will vary depending on their actual water consumption. Illustrations of the varying impacts are presented below for FY20 and FY21.

Details of the COS analysis and the FY20 and FY21 calculations are contained in the District's April 2015 COS study and the updated COS analysis for FY20 and FY21 (see Appendix A). They are also addressed in the General Manager's March 21, 2019 memorandum to the Board which discusses the proposed FY20 and FY21 water system rates and charges that are subject to Proposition 218.

The District is not currently experiencing a water shortage and does not anticipate a water shortage in FY20 or FY21 as a result of the high levels of water currently in storage due to recent storms and reduced customer demand. A water shortage could occur from declared drought or other situations where the District's available water supply is limited or restricted. However, the Drought Surcharge percentages that were developed in the 2015 COS study and adopted for FY16 and FY17 will remain available as a contingency plan in the unanticipated event of a water shortage. If a water shortage occurs, the proposed rate structure for the water system rates and charges will allow the District to update its drought related costs and develop and implement Drought Surcharges based on the updated COS study. Any Drought Surcharges that are imposed will be consistent with the FY16 staged system of Drought Surcharges and will not exceed the Drought Surcharge percentages from FY16, as set forth in the notice of public hearing.

The proposed rates and charges for the water system will be effective on bills issued on or after July 1, 2019 for FY20, and on or after July 1, 2020 for FY21.

## RECOMMENDATIONS

The recommendations in this section cover the rates and charges for the water system, including the Water Service Charge, Water Flow Charge (consumption), Drought Surcharges, Elevation

Surcharge, Private Fire Service Charge and fees and charges related to the installation of water and private fire service and other ancillary charges.

Recommended changes to rates, charges, fees, and water service regulation for the water system are:

*Water System Rates and Charges Subject to Proposition 218:*

- Increase water charges (service, flow, elevation and private fire service charges) set forth in Schedule A – Rate Schedule for Water Service by 6.5 percent for FY20 and an additional 6.25 percent for FY21. These increases support the projected FY20 and FY21 operating and capital expenditures.
- Adopt the FY20 and FY21 water system rates and charges as shown in Water System Schedule A – Rate Schedule for Water Service (see Chapter 5).
- Retain Drought Surcharges set forth in Schedule L – Drought Surcharge Rate Schedule for Water Service from FY16 and FY17 in the event of an unanticipated event or water shortage in FY20 or FY21.

*Water Fees, Charges and Service Regulations Not Subject to Proposition 218:*

- Implement proposed changes to Water System Schedule B – Account Establishment Charge and Schedule C – Charges for Special Services. The changes would increase each charge in these schedules to reflect current costs.
- Implement proposed changes to Schedule D – Water Service Installation Charges, Schedule E – Private Fire Service Installation Charges, Schedule F – Public Fire Hydrant Installation Charges, and Schedule G – Water Main Extension Charges. The changes would increase each charge in these schedules to reflect current costs and the second year of a three year phased-in increase approved by the Board in 2018.
- Update specified components of the Real Property Use Application Fees, Recreation Use Fees and Public Records Act Fee Schedules to reflect current costs.
- Modify Water Service Regulations Section 12 – Non-registering and Unreadable Meters and Meter Protection to update and clarify District water service regulations.

## **DISCUSSION**

### **Water System Rates and Charges**

Increase rates and charges for the water system by 6.5 percent in FY20 and 6.25 percent in FY21.

The purpose of the rates and charges for the water system is to recover costs in the District's operating and capital budgets for the water system and to meet the Board's policy goals. The proposed increases address the District's needs as presented in its proposed biennial budget for



FY20 and FY21. Details of the proposed increases to the individual components of the water system rates and charges are shown below under **Water System Cost of Service and FY20 and FY21 Proposed Charges**. Details of the FY20 and FY21 budget objectives, operating budget, capital expenses, and debt expenses are available in the FY20 and FY21 Proposed Biennial Budget and Capital Project Summaries.

The proposed increases in water system rates and charges set forth in Schedule A – Rate Schedule for Water Service for FY20 and FY21 are lower than the projections made in FY17, when the FY18 and FY19 biennial budget was adopted. At that time, it was projected that water system rates and charges in FY20 and FY21 would need to increase by 7.0 percent each year. The proposed water system rates and charges are lower than originally projected two years ago due to actual revenues in FY18 and projected revenues for FY19 exceeding budgeted amounts, which reduced the amount of debt issued to fund the capital program, and projected higher non-rate revenues in FY20 and FY21.

District revenues are in large part dependent upon water usage which is projected to be about the same as the prior projections for water usage in FY19. The proposed charges are based on the assumption that water consumption will be 141 million gallons per day (MGD) in FY20 and 143 MGD in FY21. This is about two percent lower than the water consumption that had been projected for FY20 and FY21 at the time the FY18 and FY19 biennial budget was adopted. Despite the fact that the recent drought has ended and water use restrictions have been lifted, it is projected that customers will maintain many of their conservation habits.

Based on projected water consumption, rates and charges for the water system need to increase by 6.5 percent in FY20 and an additional 6.25 percent in FY21 to cover the expenditures identified in the proposed FY20 and FY21 operating and capital budgets, and to meet Board policy goals. Table 1 below illustrates the amount of revenue needed from the FY20 and FY21 increases in water system rates and charges to fund FY20 and FY21 expenditures. Between FY19 and FY21, operation and maintenance (O&M), debt service, and capital expenses are budgeted to increase to varying degrees. In total, expenses in FY20 are projected to be \$918.6 million, which is 18.9 percent higher than FY19. The District can access a variety of non-water system revenues, such as property taxes, lease revenues, water system reserves, and bond proceeds to pay for O&M and capital expenses. These revenues are projected to cover \$336.1 million of expenditures in FY21, leaving \$582.5 million to be paid for from revenues from the rates and charges of the water system. FY19 water system rates and charges are projected to generate \$516.7 million of the necessary \$582.5 million, leaving \$65.8 million, or 12.75 percent, of incremental expenditures to be addressed from increases in water system rates and charges. This 12.75 percent increase is proposed to be distributed over two years, with a 6.5 percent increase in FY20 and a 6.25 percent increase in FY21.

**Table 1 - Revenue Shortfalls (In Million\$) Addressed Through Rate Increase**

	<b>FY19</b>	<b>FY21</b>	<b>2-Yr Δ</b>
<b>Revenue Requirement</b>			
+ O&M expense	\$292.5	\$315.4	7.8%
+ Debt service expense	210.0	217.7	3.7%
+ Capital expense	269.8	385.5	42.9%
Total expenses =	772.3	918.6	18.9%
- Other revenues	-264.8	-336.1	26.9%
Revenue requirement =	\$507.5	\$582.5	14.8%
<b>Revenue Adjustment</b>			
+ Revenue requirement		\$582.5	
- Revenue from existing rates		-516.7	
Difference =		\$65.8	
<b>Total Rate Revenue Requirement Adjustment</b>		<b>12.75%</b>	

The details of the FY20 and FY21 budget objectives, operating budget, capital expenses, and debt expenses are contained in the FY20 and FY21 Proposed Biennial Budget and Capital Project Summaries. The proposed operating and capital budgets, combined with the decreased water consumption projections, contribute to the increased FY20 and FY21 water system's rates and charges in roughly the following proportions:

- Operations – additional funded positions, increases in labor and benefits, and increases in non-labor expenses drive approximately 35 percent of the additional revenue required in FY20 and FY21.
- Capital – increases in rate-funded capital and debt service drive approximately 65 percent of the additional revenue required in FY20 and FY21.

Retain the Drought Surcharge percentages calculated in the COS and implemented in FY16 as a contingency in the unlikely event of a water shortage in FY20 or FY21.

As part of long-term financial stability efforts, the District developed a staged system of Drought Surcharges to recover water shortage related costs, including without limitation reduced revenues due to mandatory conservation, increased rates for purchased water, administrative costs, and penalties or fines for consumption of water over state-mandated limits. Under this staged system of Drought Surcharges, the Drought Surcharge rises as the severity of the water shortage increases. The District does not anticipate a water shortage in FY20 or FY21 as a result of the high levels of water currently in storage due to recent storms and reduced customer demand. However, the Drought Surcharge percentages that were developed in the 2015 COS study and adopted and

implemented for FY16 will remain available as a contingency plan in the unanticipated event of a water shortage.

In its 2015 COS study, the District developed a detailed COS analysis to calculate the Drought Surcharges for the District's drought stages. The 2015 COS study calculated Drought Surcharges that would address the financial aspects of a limited or restricted water supply situation for each drought stage. The revenue requirement for each drought stage was developed and a Drought Surcharge was calculated to recover the revenue requirement based on the decreased water sales, costs of supplemental supply and increased customer service related costs during a drought. The District's COS study calculated Drought Surcharge percentages of up to 8 percent, 20 percent and 25 percent to be assessed on the potable Water Flow Charge in each billing period during Drought Stages 2, 3 and 4, respectively. In the FY16 and FY17 budget, the Board adopted the staged system of Drought Surcharges to recover water shortage-related costs. After declaring a Stage 4 drought, the District implemented a 25 percent Drought Surcharge on the potable Water Flow Charge for FY16 water bills. After the Board declared an end to the shortage emergency, the 25 percent Drought Surcharge was terminated at the start of FY17.

The District does not anticipate a water shortage in FY20 or FY21; however, the Drought Surcharge percentages that were developed in the 2015 COS study and adopted for FY16 and FY17 will continue to be available as a contingency plan in the unanticipated event of a drought, water shortage emergency, or state mandated reductions in potable water use. The District's Drought Surcharges are set forth in Schedule L – Drought Surcharge Rate Schedule for Water Service (see Chapter 5). Prior to implementing Drought Surcharges, the District will update drought related costs and develop and adopt surcharges consistent with the COS study and will not exceed the Drought Surcharge percentages listed in Schedule L. The District's Proposition 218 notice for FY20 and FY21 includes information regarding these surcharges so that they remain available to the Board to implement in the event the District is in a drought, water shortage or other situations requiring reductions in water use by its customers.

### **Water System Cost of Service Study and Proposed FY20 and FY21 Rates and Charges**

State law and District policy require that the District's rates and charges be based on COS and that they be proportional to the cost of providing service on a parcel basis. A COS study allocates operating and capital costs to customer classes based both on customer class usage characteristics and on facility design and operations. This nexus between usage and cost forms the financial and legal basis for setting utility rates and charges. Over time, both customer usage characteristics and costs can change and a COS study helps reconcile these changes with revenues under existing rates and charges. COS studies often result in recommended modifications to existing rates and charges.

The District retained Raftelis Financial Consultants (RFC) to perform COS studies for the water and wastewater systems' rates and charges, including a study of the proposed drought rate structure. The RFC study was completed in FY15 and indicated that the District's water system rates and charges are consistent with Proposition 218's cost of service requirements. The RFC study also recommended certain adjustments to the rates and charges, which have been incorporated into the proposed FY20 and FY21 water system rates and charges. For FY20 and FY21, the District updated the original COS study for the proposed and projected FY20 and FY21 expenditures, revenues, and water sales (see Appendix A). The adjustments ensure the rates and charges for the

water system represent the District's current costs of providing water service, and allocate such costs proportionally to customers.

Based on the rate models from the District's COS studies, water system rates and charges have five customer classes: single family residential, multi-family residential, all other (including non-residential, commercial, and industrial), private fire service, and nonpotable/recycled. Together, the rates and charges of the water system are structured to proportionately recover the costs of providing water service among the various customer classes. The District's rates and charges for the water system have five components: a Water Flow Charge, a Water Service Charge, an Elevation Surcharge, a Private Fire Service Charge, and a Drought Surcharge.

The Water Flow Charge is charged to all customers based on customer class, and recovers a portion of the District's fixed costs as well as the variable costs associated with provision of water. The Water Flow Charge is imposed per unit of water consumed per month, with each unit of water equaling 748 gallons. The Water Service Charge is a fixed charge upon all water customers, based on the size of the meter serving the property, and recovers the remaining portion of the District's fixed costs. The Elevation Surcharge applies only to properties within designated geographic pressure zones, and recovers the increased costs of pumping water to such areas. The Private Fire Service Charge applies only to properties with a private fire service connection, and is charged based on the size of the private fire connection serving the property to pay for the costs of maintaining adequate water pressure to serve the private fire service connection. Finally, the Drought Surcharge is only imposed upon the Board's declaration of a Stage 2, 3, or 4 drought, and recovers the increased costs associated with providing water under water shortage conditions.

#### Proposed FY20 and FY21 Water System Rates and Charges Subject to Proposition 218

Overall, the rates and charges for the water system are proposed to increase by 6.5 percent in FY20 and an additional 6.25 percent in FY21. Individual charges are rounded to the nearest whole cent after the increases are applied to the current charges. The impact on a customer's water bill of the proposed increases will differ slightly for each customer class and for individual customers within each customer class depending on water use and meter size. Tables 2 through 6 illustrate the impact of the proposed increases on specific charges for various categories of users. All these tables incorporate the proposed increases consistent with the COS study.

Table 2 illustrates the rates for various single family residential customers in FY19, FY20 and FY21 at varying levels of usage. The bottom row of the table shows the impact of the increases on the average single family residential customer. Note that the average customer is now using about 8 CCF per month, down from the previous historic average use of 10 CCF per month. The monthly water bill for FY19 based on the average use for single family residential customers is \$56.12 and would rise to \$59.74 in FY20, an increase of \$3.62 or 6.5 percent. In FY21 the monthly water bill would rise to \$63.47, an additional increase of \$3.73 or 6.2 percent.

The table shows the water bill impact from the proposed increases based on differing levels of usage. The user in the 25<sup>th</sup> percentile is among the lowest user of water at 4 CCF per month; only 25 percent of ratepayers use less. Users in the 50<sup>th</sup> percentile are the median users at 6 CCF of water; half of ratepayers use more and half use less. Ratepayers in the 75<sup>th</sup> percentile use 10 CCF of water per month; three quarters of ratepayers use less. Finally, ratepayers in the 95<sup>th</sup> percentile use 24 CCF per month; 95 percent of ratepayers use less. Monthly bills in FY20 for the range of

usage shown below range from \$42.23 to \$161.98 and reflect a 6.5 percent increase from the corresponding monthly bill in FY19. Monthly bills in FY21 range from \$44.87 to \$172.03 and reflect an increase of 6.25 percent over FY20 monthly bills. **Exhibit 1** shows a comparison of the proposed FY20 annual water bill for a typical EBMUD single family residential customer using 8 CCF per month with the water bill for other local water agencies.

**Table 2 - Single Family Residential Customer Monthly Water Bill Impacts – Including Proposed Water Service and Flow Charges**

Single Family Residential Water Charges on Water Bill								
	Use (CCF)	FY19 Bill	FY20 Bill	Increase from FY19	Percent Change	FY21 Bill	Increase from FY20	Percent Change
25 <sup>th</sup> Percentile	4	\$39.67	\$42.23	\$2.56	6.5%	\$44.87	\$2.64	6.3%
50 <sup>th</sup> Percentile (median use)	6	\$47.19	\$50.23	\$3.04	6.4%	\$53.37	\$3.14	6.3%
75 <sup>th</sup> Percentile	10	\$66.46	\$70.76	\$4.30	6.5%	\$75.17	\$4.41	6.2%
95 <sup>th</sup> Percentile	24	\$152.12	\$161.98	\$9.86	6.5%	\$172.03	\$10.05	6.2%
Average Single Family Residential Use*	8	\$56.12	\$59.74	\$3.62	6.5%	\$63.47	\$3.73	6.2%

\*8 CCF/mo represents recent average single family residential use. Previous comparisons used 10 CCF/mo, which represented historic average single family residential use prior to recent drought conditions.

Table 3 illustrates the FY20 and FY21 monthly bill impact due to increases for multi-family residential and other customers based on the size of the customer's water meter and monthly water usage in CCF.

**Table 3 - Other Customer Monthly Water Bill Impacts – Includes Proposed Water Service and Flow Charges**

Multi-Family Residential and Non-Residential Water Charges on Water Bill									
	Meter (Inches)	Use (CCF)	FY19 Bill	FY20 Bill	Increase from FY19	Percent Change	FY21 Bill	Increase from FY20	Percent Change
Multi-Family Residential 4 dwelling units	1	25	\$169.95	\$181.12	\$11.17	6.6%	\$192.35	\$11.23	6.2%
Multi-Family Residential 5+dwelling units	1	50	\$302.70	\$322.62	\$19.92	6.6%	\$342.60	\$19.98	6.2%
Commercial	1	50	\$301.70	\$321.12	\$19.42	6.4%	\$341.10	\$19.98	6.2%
Industrial	2	500	\$2,751.36	\$2,928.27	\$176.91	6.4%	\$3,110.35	\$182.08	6.2%



Table 4 illustrates the FY20 and FY21 monthly Water Service and Private Fire Service Charges by meter size. Table 5 illustrates the Proposed Flow Charge and Elevation Surcharge.

**Table 4 - Proposed Monthly Water Service Charges (Meter Size) and Private Fire Service Charges (\$/Meter Size)**

<b>Monthly Water Service and Private Fire Service Charges on Water Bill</b>					
	<b>FY19</b>	<b>FY20</b>	<b>Percent Change</b>	<b>FY21</b>	<b>Percent Change</b>
Private Fire Service Charge					
4"	\$127.85	\$136.16	6.5%	\$144.67	6.3%
6"	\$249.92	\$266.16	6.5%	\$282.80	6.3%
8"	\$396.39	\$422.16	6.5%	\$448.55	6.3%
Water Service Charge					
Single Family Residential 5/8" & 3/4"	\$24.63	\$26.23	6.5%	\$27.87	6.3%
Multi-Family Residential 2"	\$106.36	\$113.27	6.5%	\$120.35	6.3%
All Other 4"	\$320.13	\$340.94	6.5%	\$362.25	6.3%

**Table 5 - Proposed Monthly Water Flow Charge (Volume) and Elevation Surcharge (\$/CCF)**

<b>Water Flow and Elevation Charges on Monthly Water Bill</b>					
<b>Flow Charges (\$/CCF)</b>	<b>FY19</b>	<b>FY20</b>	<b>Percent Change</b>	<b>FY21</b>	<b>Percent Change</b>
Single Family Residential					
Tier 1 up to 7 CCF	\$3.76	\$4.00	6.4%	\$4.25	6.25%
Tier 2 over 7 and up to 16 CCF	\$5.17	\$5.51	6.6%	\$5.85	6.17%
Tier 3 over 16 CCF	\$6.83	\$7.27	6.4%	\$7.72	6.19%
Multi-Family Residential	\$5.31	\$5.66	6.6%	\$6.01	6.18%
All other accounts (commercial/industrial)	\$5.29	\$5.63	6.4%	\$5.98	6.22%
Nonpotable/Recycled Water	\$4.12	\$4.39	6.6%	\$4.66	6.15%
<b>Elevation Surcharge* (\$/CCF)</b>					
Pressure Zone 1	\$0.00	\$0.00	0.0%	\$0.00	0.0%
Pressure Zone 2	\$0.76	\$0.81	6.6%	\$0.86	6.17%
Pressure Zone 3	\$1.58	\$1.68	6.3%	\$1.79	6.55%

\*Elevation Surcharge is assessed to certain customers based on location. The Elevation Surcharge is applied to each unit of water delivered to properties in some pressure zones, and is calculated to recover the increased cost of power and facility costs required to pump water to locations 200 feet or more above sea level.

## Drought Surcharges

Table 6 below shows the current Drought Surcharge percentages on potable Water Flow Charges, as set forth in Schedule L – Drought Surcharge Rate Schedule for Water Service (see Chapter 5). The Drought Surcharge percentages are applied to each of the potable Water Flow Charges including the three single family residential tiers, multi-family, and all other Flow Charges. The Drought Surcharge percentages for each of the four drought stages are independent of each other; the percentage surcharges are not additive to each other. The Drought Surcharge does not apply to the Elevation Surcharge or Nonpotable/Recycle Water Flow Charge.

**Table 6 - Drought Surcharge Percentages on Potable Water Flow Charges**

	Maximum Applicable Drought Surcharge Percentage in 4 Stages			
	1	2	3	4
All potable water flow charges	0%	8%	20%	25%

In the unlikely event that a water shortage occurs, prior to implementing Drought Surcharges, the District will update the drought related costs and develop and adopt surcharges consistent with the COS study, not to exceed the Drought Surcharge percentages listed above. The District's Proposition 218 notice for FY20 and FY21 includes information regarding these Drought Surcharges that remain available as a contingency plan.

## RECOMMENDED REVISIONS TO OTHER WATER SYSTEM FEES AND CHARGES NOT SUBJECT TO PROPOSITION 218

In addition to the changes in the water system rates and charges described above, this report recommends revisions to other District water system fees and charges. These fees and charges are not subject to the requirements of Proposition 218. However, they are subject to Proposition 26 and in full compliance with its requirements. Proposition 26 governs local government rates and charges, and provides that any levy, charge, or exaction of any kind that is imposed by a local government is a "tax" requiring voter approval, unless it fits within its seven stated exceptions. If a rate/charge does not fall within an exception to Proposition 26's tax definition, then it will be deemed a tax that is subject to voter approval.

The District periodically reviews the fees and charges in the Schedules of Water System Charges to ensure that the fees and charges are consistent with legal requirements and reflect updated costs. Copies of the fees and charges recommended for revisions are shown under Chapter 5 of this report. For FY20, the following schedules of fees and charges are recommended to be updated to reflect the District's increased costs, including those related to salaries and benefits:

- Schedule B – Account Establishment Charge
- Schedule C – Charges for Special Services
- Schedule D – Water Service Installation Charges
- Schedule E – Private Fire Service Installation Charges
- Schedule F – Public Fire Hydrant Installation Charges
- Schedule G – Water Main Extension Charges

- Public Records Act Fee Schedule
- Real Property Use Application Fees
- Recreation Use Fees

#### Schedule B – Account Establishment Charge

The Account Establishment Charge recovers the District's costs for establishing a new customer account or transferring the account of a customer moving from one address to another. Based on the analysis of the District's current labor cost to set up a new customer account or to transfer an account for a customer moving from one address to another, the Account Establishment Charge is proposed to increase from \$56 to \$57 in FY20. Customers who use the EBMUD website and use the online process to set up a new account generate lower labor costs than those who call the District for the same service. Accordingly, the Account Establishment Charge is lower for customers who set up an account online, reflecting the District's labor cost savings. In FY20, the Account Establishment Charge for online customers is proposed to increase from \$40 to \$41 to reflect updated labor costs.

#### Schedule C – Charges for Special Services

Schedule C contains the charges for special customer services such as the meter testing program, backflow prevention program, lien program, public hydrant meters, and service interruptions. After a detailed review of the District's costs to provide each of these services, the following recommended changes are proposed for FY20.

##### *Meter Testing Charges*

The District is responsible for the maintenance and replacement of all water meters, and recovers those costs through the monthly Water Service Charge. When the District suspects or determines a water meter is not functioning properly, the District tests and/or replaces the malfunctioning meter. When a meter is tested at the sole request of the customer, the District bills the customer a Meter Testing Charge based on the size of the meter to recover the cost of performing this work. If the meter is found to be over-registering water consumption, the Meter Testing Charge is refunded. For FY20, the Meter Testing Charges are proposed to increase between 2.8 percent and 3.2 percent depending on meter size to reflecting the District's current costs for providing this service.

##### *Service Trip Charge*

The Service Trip Charge is proposed to increase from \$48 to \$49 in FY20 to reflect the District's updated labor costs. The after-hours Service Trip Charge is proposed to increase from \$66 to \$67 for FY20. Service Trip Charges recoup the cost of sending a Field Services Representative or other District staff to a service for payment extension, service interruption and restoration, and other similar account related visits. An additional task has been added to the list of field service tasks that trigger the Service Trip Charge for removal of unauthorized devices or equipment attached to District property in the meter box. New remote submetering devices have been introduced to the market to help customers manage their own water use and check for leaks. The District has become aware of an increase in the use of these electronic devices that customers have installed inside the District's meter box. On a few occasions, the District has had to remove a device for meter reading or equipment repairs.

### *Service Interruption Charges*

When a customer's bills remain unpaid after the District has made extensive efforts to work with the customer to collect the unpaid bills or to establish and maintain payment arrangements, the District discontinues water service to the customer. Initially, water service is shut off at the meter, which triggers a Service Trip Charge which is proposed to increase in FY20 from \$48 to \$49 to reflect District costs. After the customer pays the delinquent charges owed to the District, another Service Trip Charge is assessed to restore the service. If the customer requests service be restored after normal business hours, an after-hours Service Trip Charge is assessed instead of the normal Service Trip Charge. The after-hours Service Trip Charge is proposed to increase from \$66 to \$67 for FY20. If it is determined that the customer tampered with the water meter after the District has shut off water service, an S-Lock will be placed over the meter at an additional charge, and if there has been more than one previous occurrence of water theft, a Water Theft Penalty will be charged in accordance with the District's Water Theft Penalty Ordinance. The S-Lock charge is proposed to increase from \$61 to \$62 for FY20. If the customer is determined to have tampered with the S-Lock, the meter will be plugged at a proposed FY20 Plug Service Interruption Charge of \$422, an increase from the current charge of \$414 to reflect updated labor charges.

### *Lien Program Fees*

The Lien Program Fees have been amended to reflect the District's staff costs and the fees charged to the District by Alameda and Contra Costa Counties to record and remove the liens. The changes to the lien fees proposed for FY20 will range from a reduction of 7.0 percent to an increase of 28 percent depending on the specific fee.

### *Wasteful Use Charge and Flow-Restrictor Installation Charges*

If the District suspects that a customer is using water in a wasteful manner, District staff contacts the customer and investigates the customer's water use. If it is determined that the customer is violating the District's Water Service Regulations on water waste (Section 29), a Wasteful Use Charge will be charged to recover the cost of monitoring the customer's ongoing water use. The Wasteful Use Charge for FY20 is proposed to be \$49, an increase from the current charge of \$48 to reflect updated costs. If the customer continues to violate the Water Service Regulations Section 29, a flow restrictor may be installed at the customer's expense. The cost of installing the flow restrictor has been updated for FY20, increasing the Flow-Restrictor Installation Charge from \$119 to \$122 for small meters under 1-1/2 inches and from \$256 to \$262 for 1-1/2 and 2-inch meters.

### *Backflow Device Annual Certification and Violation Charges*

To ensure that the water system is not compromised by contaminants, pollutants or plumbing hazards, the District requires a backflow prevention device on some water service connections. A Backflow Device Annual Certification Charge is assessed to cover the administrative costs related to inspection and verification, and is proposed to be \$57 for FY20, an increase from the current rate of \$56. In addition, there is a charge for labor to complete any necessary surveys and inspections which is proposed to increase from \$128 to \$131 per hour. The District maintains a list of certified private companies that can perform the required backflow test. For a company to be included on the list of certified backflow testers, the District charges a Certified Tester Listing Charge. The Certified Tester Listing Charge for FY20 is proposed to be \$159, an increase from the current charge of \$156. If it is determined that a customer has violated the District's backflow prevention

requirements, the District charges a Backflow Device Violation Charge, which is proposed to increase from \$496 to \$506 in FY20, to recover the District's costs to shut off the water service and restore the service once the District verifies that the backflow requirements have been met.

#### *Intervening Water Service Agreement Fee*

The District has a program that automatically transfers a property's water service account to the landlord when a tenant who is the EBMUD account holder terminates service. This program allows for water service to continue uninterrupted while the property is vacant without the landlord having to open a new account and pay an Account Establishment Charge for that property. There is a one-time processing fee for the Intervening Water Service Agreement, to recover the administrative costs to set up the agreement. For FY20, the Processing Fee for Intervening Water Service Agreement is proposed to increase from \$58 to \$59 to reflect updated labor costs.

#### *Public Hydrant Meter Account Establishment and Site Visit Charges*

The hydrant meter program provides customers with a 3-inch hydrant meter that can be hooked up to a public fire hydrant to meter water use when temporary water service has been approved by the District. The Public Hydrant Meter Account Establishment and Renewal Charge to establish and annually renew the hydrant meter account is proposed to increase in FY20 from \$115 to \$118. The hydrant meter program requires customers to enter into an agreement through which customers agree to regularly self-report meter readings and periodically exchange their meters. When a customer does not follow the terms of the agreement, a Public Hydrant Meter Account Site Visit Charge is charged to recover the cost of investigation and site visits by a Field Services Representative or other District staff to recover the meter. For FY20, the Public Hydrant Meter Account Site Visit Charge is proposed to increase to \$235 from the current charge of \$230 to reflect the District's updated labor costs.

#### Schedule D – Water Service Installation Charges

Schedule D contains the installation charges for lateral and meter installations for standard services. As part of our comprehensive review of water fees and charges in 2018, the District analyzed the details of the cost analysis for each individual installation charge and updated the labor, equipment, materials, and overhead required for each installation. The current labor and benefit rates, equipment charges, and materials and handling costs were used in the analysis. The 2018 update found that the labor hours required to perform the installations has increased significantly from the prior analysis due to an increased effort for best management practices (BMPs), traffic control, and local permit requirements. In addition, the previous charges did not include cost of supervisory staff that manages the installation work.

Because of the large increases calculated in the 2018 update, the Board approved a three-year phased-in installation charge increase, beginning in FY19. The shortfall in revenue collected from the phase-in of the increases to the installation charges is funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values. By phasing in these large increases to the installation charges, the District will avoid the financial shock to applicants for new services that could negatively impact the increase in new construction and growth in water accounts. The recent growth in water accounts will provide more financial stability to the District in the future and will benefit all ratepayers. Service installation



charges for the second year of the three-year phase-in for FY20 are shown in the proposed Schedule D – Water Service Installation Charges (see Chapter 5) of this report. The proposed FY20 installation charges include increases for salaries and benefits, materials and equipment for 2019.

#### Schedule E – Private Fire Service Installation Charges

Schedule E contains the installation charges for private fire services that supply capacity for private fire sprinkler systems. As part of our comprehensive review of water fees and charges in 2018, the District analyzed the details of the cost analysis for Private Fire Service Installation Charges and updated the labor, equipment, materials, and overhead required for each installation.

Because of the large increases calculated in the 2018 update, the Board approved a three-year phased-in installation charge increase, beginning in FY19. The shortfall in revenue collected from the phase-in of the increases to the installation charges is funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values. The proposed Private Fire Service Installation Charges for the second year of the three-year phase-in for FY20 are shown in the proposed Schedule E – Private Fire Service Installations Charge (see Chapter 5) of this report. The proposed FY20 installation charges include increases for salaries and benefits, materials and equipment for 2019.

#### Schedule F – Public Fire Hydrant Installation Charges

Schedule F contains the installation charges for public fire hydrants. The Public Fire Hydrant Installation Charge is almost exclusively paid by developers as a requirement for new development areas or for projects in redevelopment areas. As part of our comprehensive review of water fees and charges in 2018, the District analyzed the details of the cost analysis for public fire hydrant installation charges and updated the labor, equipment, materials, and overhead required for each installation.

Because of the large increases calculated in the 2018 update, the Board approved a three-year phased-in installation charge increase, beginning in FY19. The shortfall in revenue collected from the phase-in of the increases to the installation charges is funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values. The proposed Public Fire Hydrant Installation Charges for the second year of the three-year phase-in for FY20 are shown in the proposed Schedule F – Public Fire Hydrant Installations Charges (see Chapter 5) of this report. The proposed FY20 installation charges include increases for salaries and benefits, materials and equipment for 2019.

#### Schedule G – Water Main Extension Charges

Schedule G contains the installation charges for water main extensions for both District installed and applicant installed main extensions. The District performs all the work for all water main extensions up to 1,000 feet. For main extensions greater than 1,000 feet, the District performs the engineering and design, survey and inspection work, and the applicant is responsible for installation of the pipeline. As part of our comprehensive review of water fees and charges in 2018, the District analyzed the details of the cost of recent main extensions.

Because of the large increases calculated in the update, the Board approved a three-year phased-in installation charge increase, beginning in FY19. The shortfall in revenue collected from the phase-in of the increases to the Water Main Extension Charges is funded from higher than

budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values. Water Main Extension Charges for the second year of the three-year phase-in for FY20 are shown in the proposed Schedule D – Water Service Installation Charges (see Chapter 5) of this report. The proposed FY20 charges include increases for salaries and benefits, materials and equipment for 2019.

#### Public Records Act Fee Schedule

The recommended revisions to the Public Records Act Fee Schedule cover the costs of duplication of District records in accordance with the Public Records Act. The recommended changes to the fee schedule include updating the cost of duplication and programming labor charges to reflect direct labor costs for the job classifications involved in providing the records. The labor costs for providing existing paper and electronic records are proposed to increase from \$0.56 per minute to \$0.59 per minute, and for records on tape, CDs, or DVDs from \$0.56 per minute to \$0.59 per minute. Additionally, the labor costs associated with providing records that do not already exist is proposed to increase from \$1.05 per minute to \$1.11 per minute.

#### Real Property Use Application Fees

The District may allow for use of its property by other public agencies or private entities after evaluating if the proposed use adversely impacts District operations, is compatible with District land management policies and practices, and if there are measurable benefits to the District. The Real Property Use Application Fees schedule recovers the cost of evaluating the applications based on the type of use being requested. For FY20 the following changes to Real Property Use Application Fees are proposed to reflect the District's current costs and a new fee has been added to recover the costs of issuing a long term encroachment permit on District property:

- Unsolicited Title Fee is proposed to increase from \$12,700 to \$13,000
- Other types of Easement Fees is proposed to increase from \$5,900 to \$6,100
- Other types of Quitclaim is proposed to increase from \$2,400 to \$2,500
- Telecommunication Lease Fee is proposed to increase from \$3,700 to \$3,800
- Property Entry and Rights of Entry Permits is proposed to increase from \$310 to \$330
- Temporary Construction Easement/Encroachment Permits on open land with no District facilities will increase from \$650 to \$660, and with District facilities is proposed to increase from \$2,300 to \$2,400
- Long Term Encroachment Permit fee of \$22,000 is proposed to be added to the schedule for FY20.

#### Recreation Use Fees

The District operates four upcountry recreation areas (Camanche Hills Hunting Preserve, Camanche North and South, and Pardee) and two local watershed recreation areas (Lafayette and San Pablo). These recreation areas provide access to the District's watershed to the general public while maintaining the integrity of the water supply. For those who choose to visit the recreation areas, the District has established a schedule of fees that generate revenue to support the operation of the recreation areas. The District uses several concessionaires to assist with the upcountry and the San Pablo recreation areas; Lafayette recreation area is operated by District

forces. The District also permits public access to extensive trail networks in the East Bay and Mokelumne watersheds. The schedule of Recreation Use Fees is proposed to and approved by the Board of Directors as part of the biennial rate setting process. Discounts are available to seniors, distinguished veterans, active and retired military personnel, and disabled visitors on select recreation use fees, consistent with long-standing Board policy objectives.

The Camanche Regional Park Advisory Board (CRPAB) was established by EBMUD's Board of Directors with Resolution 31778 in December 1986 to review and advise the District and the local counties on matters including operations, rules and fees at Camanche Recreation Area. The CRPAB replaced the former JPA Park Board, and is comprised of two county board appointed representatives each from Amador, Calaveras and San Joaquin Counties. The CRPAB meets in March, July and November of each year, and typically reviews and advises on the proposed two-year package of recreation rates and charges at the November and March meetings preceding EBMUD's biennial rates and charges process. The CRPAB met on March 21, 2019 and approved the Recreation Use Fees proposed for calendar years 2020 and 2021.

### *Camanche Hills Hunting Preserve*

The proposed update to the fee schedule for the Camanche Hills Hunting Preserve (CHHP) includes modifications to simplify the options for sporting clays shooting. In addition, the initiation and annual fees for family and corporate preserve licenses have proposed increases to reflect updated costs. The proposed initiation fee is proposed to increase from \$3,195 to \$3,495. The annual corporate maintenance fee is proposed to increase by \$100 to \$600. Archery range and course fees for pairs and groups will be eliminated.

### *Camanche North and South Recreation Areas*

There are proposed increases for calendar years 2020 and 2021 to 121 of the 141 rates and charges that are reviewed by the EBMUD Board. Fee increases are to help offset increasing labor costs for the concessionaire. The increased fees include vehicle entry/parking, dog, boat, fishing, campsite, towing, miscellaneous, decontamination, cottage, motel, resort rental, mobile home, and facility rentals. The proposed basic Recreation Use Fee increases average 5.5 percent in 2020 and 5.2 percent in 2021 at Camanche.

To prevent the infestation of quagga mussels, zebra mussels and other aquatic invasive species, the District has been performing boat inspections at all its boating reservoirs since 2008. In 2016, the District acquired a Watercraft Decontamination System (WDS) at Camanche Reservoir using grant funds from the California Department of Boating and Waterways. The WDS provides for the decontamination of boats that fail the inspection for risk of invasive species and allows for boat launch into Pardee and Camanche Reservoirs immediately after the boat goes through the decontamination process. The decontamination service is not a required service. Boat owners whose boats fail the inspection have the option of not launching their boat at Pardee/Camanche Reservoirs; using a different non-District recreational boating reservoir; or returning to Pardee/Camanche after they have followed the proper quarantine protocol. Boaters who voluntarily choose to use the decontamination services are charged a \$35 fee that covers the labor, materials and maintenance costs of the WDS. The decontamination service has proven to be a valuable service to boaters and the District with nearly 200 boaters choosing to avail themselves of this option in 2018. The decontamination fees are now being formalized in the proposed calendar year 2020 and 2021 Recreation Use Fees.

In recent years, the Calaveras Consolidated Fire and Jackson Valley Fire Protection District, the two local fire protection districts that provide emergency services to the Camanche Recreation Areas, contacted the District to request that the District make payments to the fire districts in order to maintain the current level of emergency services. In coordination with the Urban Parks Concessionaire, the concessionaire at Camanche Recreation Area, the District has agreed to raise recreation use fees at the Camanche Recreation Areas in order to make financial contributions to the Calaveras Consolidated Fire and Jackson Valley Fire Protection District of approximately \$25,000 per year. The proposed calendar year 2020 increase to the recreation use fees at Camanche incorporate the added cost of these payments to the local fire districts for continued provision of emergency services. The fee increase to maintain the emergency services is based on a fee increase of \$0.50/car/day.

#### *Pardee Recreation Area*

The Pardee concessionaire has proposed a few small to moderate increases to the seasonal fees in calendar year 2020. In calendar year 2021, an average increase of 4.9 percent is proposed to basic recreation fees including camping, boat launch, boat slip rental, boat storage, RV fees and facility rentals. Included in this average is a two-step 14 percent increase to seasonal RV fees, which is designed to align the fees with market value following significant upgrades to the Pardee Recreation Area.

#### *Lafayette Recreation Area*

The District proposes a few fee decreases and modifications at Lafayette Recreation Area. The fees for entry and parking for cars/motorcycles/smalls vans are proposed to decrease for annual (new or renewal) and senior/disabled (new or renewals and two years). Fees associated with the access card have been removed because access cards are no longer used and have been replaced with hang-tags.

#### *San Pablo Recreation Area*

The San Pablo concessionaire has proposed a few fee increases for entry and parking, dog, boat launch, fishing, group picnic, and gazebo. All three month season fees will be eliminated.

#### *Watershed Trails*

No changes are proposed for watershed trail permits.

### **Water Service Regulations**

Portions of Section 12 of the District's Regulations Governing Water Service require changes to clarify and update the District requirements for water service. These proposed changes to the Section 12 of the Water Service Regulations document the prohibition against customers attaching any device or equipment to District property in the meter box without prior District approval.

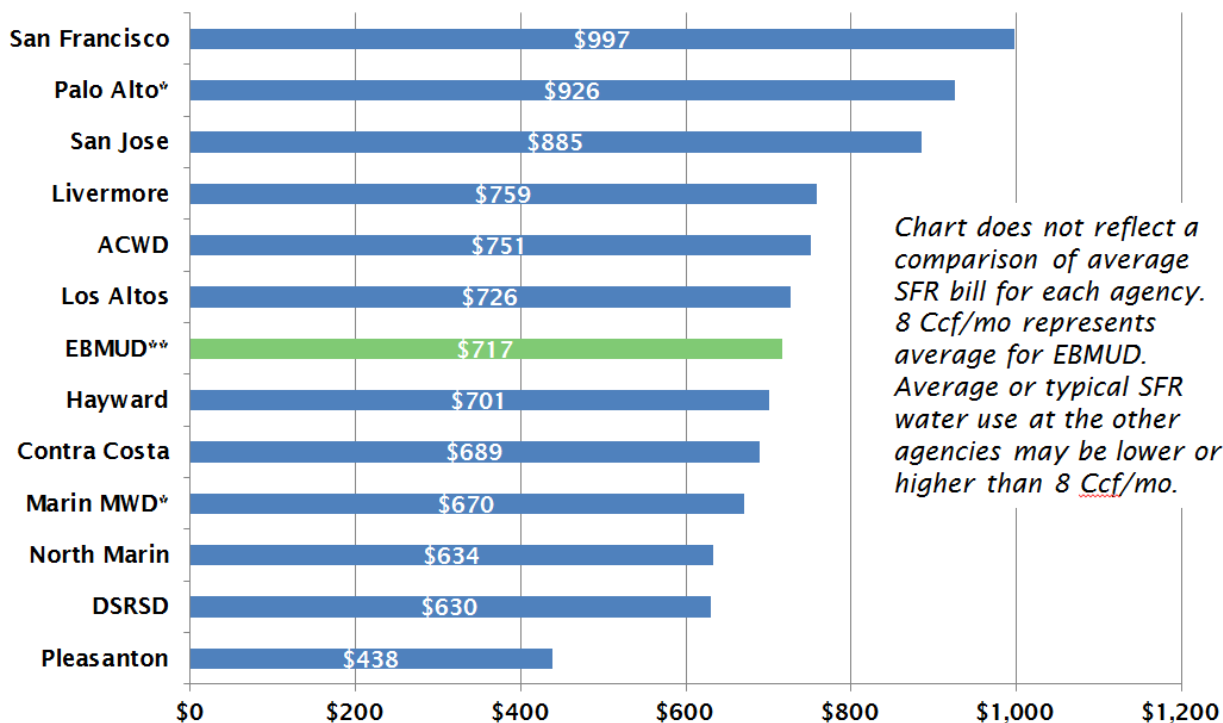
Section 12 – Non-registering and Unreadable Meters and Meter Protection

This regulation has been revised to clarify that customers shall not attach any device or equipment to District property in the meter box without prior District authorization. This regulation also requires that customers shall refrain from taking any action or constructing any equipment, structures or facilities on District property that may interfere with or impede District's ability to operate and maintain the facilities necessary to provide water service to the premises, including the meter, lateral, water main and appurtenances.



## Exhibit 1

## COMPARATIVE RESIDENTIAL WATER CHARGES – 8 Ccf/mo Annual Charge for SFR – July 2019



\*FY19 rates, possible rate increases for July 2019

\*\*Proposed FY20 rates

## 2. Water System Capacity Charges



## **Chapter 2 – Water System Capacity Charges/ Water Demand Mitigation Fees**

### **INTRODUCTION**

The District has an ongoing need to construct both water supply and water distribution system improvements to assure that there will be reliable and secure water service for each new or upsized connection to the District's system. The District's System Capacity Charge (SCC) was first established in 1983 as a means of assessing applicants an appropriate share of the costs of water distribution capital improvements within the SCC regions of the District. In 1986, an appropriate share of the costs of future water supply (FWS) improvements was added to the SCC.

All applicants for water service are required to pay the SCC when the installation of a new service or upsizing of an existing connection is needed. The SCC is applied on a regional basis (See Exhibit 1 for map), and the SCC charge is updated annually to reflect construction cost escalation for facilities that have already been built or increased cost estimates for facilities yet to be constructed and financed.

In FY08, the Board adopted the recommendations of the SCC Study performed by a rate consultant. The current SCC rates are based on updates to calculations from that study, the details of which are contained in Exhibit 2. The SCC consists of three components:

1. A System-wide Buy-In Component, which is calculated to recover a portion of the cost of existing facilities that serve the system as a whole;
2. A Regional Buy-In Component, which is calculated to recover a portion of the costs of existing facilities that serve one of the three SCC Regions (notably treatment plant and distribution facilities); and
3. A Future Water Supply Component, which is calculated to recover a portion of the costs of FWS projects that are allocated to new and upsized connections.

The District also has a Standard Participation Charge (SPC), a District-wide connection charge that is applicable to only a few remaining contracts for service entered into prior to 1983 that was first established in 1978. The SPC was designed to recover the District-wide average cost of distribution facilities constructed to serve new connections and was superseded by the SCC in 1983. A FWS Component was added to the SPC in 1986. The SPC charge is calculated to recover the latest Water Supply Management Plan costs and will continue to be less than the SCC charge in most regions. Customers eligible for service under the SPC regulations can pay for service under the more favorable of either the SPC or SCC terms and conditions.

### **RECOMMENDATIONS**

1. Modify the FY19 Schedule J – System Capacity Charge (SCC) to clarify when the standard SCC rate tables can and cannot be used for non-residential service connections for meters less than two inches.

2. Maintain the current SCC rates listed in Schedule J, which were adopted by the Board on June 12, 2018.
3. Maintain the current SPC rates listed in Schedule H, which were adopted by the Board on June 12, 2018. The SPC reflects the allowable cost for facilities necessary to serve applicants who had separate facility agreements with the District prior to July 1, 1983.
4. Maintain the current rates listed in Schedule N for Water Demand Mitigation Fees for “The Wendt Ranch,” “The Meadows,” “The Wiedemann Ranch Development,” the “Camino Tassajara Integrated Project” and the “Gale Ranch Phase II” projects, which were adopted by the Board on June 12, 2018.

The changes recommended to Schedule J will be effective on July 1, 2019.

These rates set forth in Schedules J, H, and N are not subject to the requirements of California Constitution article XIII D, section 6 (i.e., Proposition 218). However, they are subject to California Constitution article XIII C, section 1(e) (i.e., Proposition 26), and California Government Code section 66013, and are in full compliance with their requirements.

## DISCUSSION

For FY08, with the assistance from a rate consultant, the District revised its approach to the SCC and established the system-wide and regional buy-in components. Pursuant to the methodology outlined in the consultant report, the current SCC was updated in 2018 for the Engineering News Record Construction Cost Index escalation to reflect increasing costs to reproduce existing plant assets needed to serve prospective customers. The asset values and rate calculations for the current capacity charges listed in Schedules J, H and N are documented in the Report and Recommendation of the General Manager Revisions to the Water and Wastewater System Schedule of Rates and Charges, Capacity Charges, and Other Fees Not Subject to Proposition 218, and Regulations for Fiscal Year 2019, dated May 8, 2018.

For FY20, the Board has decided to maintain the current SCC rates set forth in Schedule J pending a complete review of the SCC in 2019 and 2020.

### Clarification of SCC for Non-Residential Connections for Meter Sizes 1-1/2 Inches and Under

The District has determined the average daily water consumption values for meters up through 1-1/2 inches within each SCC region and established SCCs based on those averages. Non-residential applicants requesting meter sizes up to 1-1/2 inches are assessed an SCC based on the meter size and SCC region in accordance with Schedule J – System Capacity Charge Section A.1.

In some instances, the applicant’s intended use of the service connection is inconsistent with the average daily water consumption values and other assumptions used to establish the SCC charges for meter sizes up to 1-1/2 inches. Continuous water use operations would be an example of a use that is inconsistent and not intended by the meter size listed in A.1. The proposed changes to the schedule clarify that the District reserves the right to request additional water use information from the applicant requesting a meter size 1-1/2 inches or smaller. If it is determined that the applicant’s annual water use is inconsistent with water use assumptions used to establish the SCC for meter sizes 1-1/2 inches or smaller, then the applicant’s SCC will be based on the expected water use as outlined in Section 3 (SCC for Larger Meters) regardless of the actual meter size installed.



**3. Wastewater System  
Rates, Charges and Fees**



## Chapter 3 – Wastewater System Rates, Charges and Fees

### INTRODUCTION

The District updates the wastewater system's rates, charges and fees biennially in conjunction with the development of its budget. The charges are designed to recover the costs identified in the proposed operating and capital budgets and to meet Board policy goals. Wastewater system charges for wastewater treatment that are collected on the water bill include the Service Charge, Strength Charge, and Flow Charge. Other wastewater charges include special fees collected to fund the San Francisco Bay Pollution Prevention Program (SF Bay Pollution Prevention Fee) and the Wet Weather Facilities Charge (WWFC). The District completed a cost of service (COS) study in May 2019 to ensure that all of the District's charges are appropriately and equitably established and consistent with California law, including Proposition 218. The proposed FY20 rates and charges for the wastewater system have been modified to include the COS study adjustments as well as an overall increase to support the revenue requirements and capital and operating budgets for FY20 which results in some components of the wastewater system charges decreasing and others increasing. Overall the FY20 proposed rates will generate 4.0 percent more revenue for the District in FY20 than the current FY19 rates. For FY21, an additional 4.0 percent increase to the proposed FY20 rates is necessary to meet the FY21 revenue requirement. Illustrations of the varying impacts of the COS changes and overall FY20 and FY21 proposed rate increases are presented in this chapter.

Details of the COS adjustments and the FY20 and FY21 rate calculations from the District's May 2019 COS study are shown in Appendix A. They are also addressed in the General Manager's March 21, 2019 memorandum to the Board which discusses the proposed FY20 and FY21 wastewater rates and charges that are subject to Proposition 218 (California Constitution article XIII D, section 6). The rates and charges for the wastewater system will be effective on bills issued on or after July 1, 2019 for FY20, and on or after July 1, 2020 for FY21.

### RECOMMENDATIONS

The recommendations in this section cover wastewater system charges including Treatment Charges for Service, Strength and Flow, WWFC, SF Bay Pollution Prevention Fee, Permit Fees, Testing Fees, Resource Recovery Fees, Interceptor Connection Fees, and Other Fees.

Recommended changes to the rates, charges and fees for the wastewater system are:

*Wastewater Treatment Charges, Wet Weather Facilities Charge and SF Bay Pollution Prevention Fee (Subject to Proposition 218):*

- Modify the wastewater system charges for FY20 to include the COS study adjustments and overall increase for FY20 which result in some wastewater rates and charges decreasing and others increasing, as shown in Schedule A – Wastewater Department Rates for Treatment Service.

- Increase the rates proposed for FY20 wastewater system charges (Schedule A) an additional 4.0 percent for FY21. The proposed FY20 and FY21 wastewater rate increases support the District's proposed FY20 and FY21 operating and capital expenditures and meets Board policy goals.
- For the wastewater treatment charges collected on the EBMUD water bill, the impact of the combined FY20 and FY21 wastewater rate to the average single family residential (SFR) customer is an increase of \$1.07 per month or about 4.9 percent compared to the current FY19 bill.
- For the WWFC collected on the property tax bill, the impact of the combined FY20 and FY21 increases for the typical SFR customer is an increase of \$11.96 per year or about 11.5 percent compared to the current FY19 charge, as shown in Schedule B – Wastewater Department Wet Weather Facilities Charge.
- Adopt the FY20 and FY21 Wastewater Treatment Rates and Charges as shown in Wastewater System Schedule A – Rates for Treatment Service (see Chapter 5).
- Adopt the FY20 and FY21 Wastewater System Schedule B – Wet Weather Facilities Charge (see Chapter 5).
- Retain the existing SF Bay Pollution Prevention Fee of \$0.20 and \$5.48 per month for residential and non-residential customers respectively, as shown in Schedule D – Wastewater Department Other Fees (see Chapter 5).

*Wastewater Fees and Charges Not Subject to Proposition 218:*

- Increase the Wastewater Discharge Permit, Limited Term Discharge Permit and Estimation Permit Fees by approximately 4.0 percent in FY20 and by approximately 4.0 percent in FY21 as shown in Schedule C – Wastewater Department Industrial Permit Fees (see Chapter 5).
- Increase the Monitoring Fee and Violations Follow-Up Fees by approximately 4.0 percent in FY20 and by approximately 4.0 percent in FY21 as shown in Schedule D – Wastewater Department Other Fees (see Chapter 5).
- Increase the Private Sewer Lateral Compliance Fees by 4.0 to 15 percent in FY20 and by 0.0 to 5.0 percent in FY21 as shown in Schedule D – Wastewater Department Other Fees (see Chapter 5).
- Update the Laboratory Test Charges for both increases and decreases to reflect the updated testing costs as shown in Schedule E – Wastewater Department Testing Fees (see Chapter 5).
- Increase the FY20 fees and rates for the Resource Recovery Material Treatment to reflect increased costs and to provide financial incentive to direct more material deliveries to non-peak hours as shown in Schedule F – Wastewater Department Rates for Resource Recovery Material Treatment (see Chapter 5).

- Increase the FY20 fee for review, coordination and construction inspection for connections made to the interceptors to reflect actual costs as shown in Schedule H – Wastewater Department Wastewater Interceptor Connection Review, Coordination and Inspection Fee (see Chapter 5).

## DISCUSSION

### Wastewater Treatment Charges and Wet Weather Facilities Charge

Update wastewater system charges for COS adjustments and increase rate revenue by 4.0 percent in FY20 and 4.0 percent in FY21.

Wastewater system charges cover expenditures in the District's operating and capital budgets and meet the Board's policy goals. The proposed increases address the District's needs as presented in its proposed biennial budget for FY20 and FY21. In 2019, the District conducted a COS study of the wastewater system to ensure that wastewater charges align with the cost to treat wastewater from residential and non-residential customers. Details of the increases in individual charges are shown below under **Wastewater System Cost of Service and FY20 and FY21 Proposed Charges**. Details of the FY20 and FY21 budget objectives, operating budget, capital expenses, and debt expenses are available in the FY20 and FY21 Proposed Biennial Budget and Capital Project Summaries.

The overall wastewater rate increases for FY20 and FY21 will be exactly as previously projected for the wastewater system, but individual components of the wastewater system charges are recommended to be adjusted to reflect the recommendations in the 2019 COS study. The average SFR bill for wastewater treatment based on the average use of 6 hundred cubic feet (CCF) will increase by approximately \$0.20 per month in FY20 and an additional \$0.87 per month in FY21. Wastewater customers also pay a WWFC collected on the property tax bill. Depending on lot size, in FY20 this charge will increase between \$7.50 to \$26.76 per year, and in FY21 between \$4.46 to \$15.90 per year.

As a result of the COS study, some wastewater rates and charges would decrease and others would increase in FY20. For FY21, wastewater rates and charges would increase an additional 4.0 percent. With the proposed FY20 and FY21 changes to the wastewater system charges, revenue collected from all wastewater system charges would increase by 4.0 percent in FY20 and an additional 4.0 percent in FY21 from what would be collected under the current FY19 charges. The required revenues collected from the proposed FY20 and FY21 wastewater system charges are developed from the proposed FY20 and FY21 operating and capital budgets and to meet the Board's financial policy goals.

Table 1 illustrates the amount of revenue needed from the FY20 and FY21 increases to the wastewater system charges to fund FY21 expenditures. Between FY19 and FY21, operation and maintenance (O&M), debt service, and capital expenses are budgeted to increase to varying degrees. In total, expenses in FY21 are projected to be \$154.4 million, 6.8 percent higher than FY19. The District has access to a variety of non-wastewater system charge revenues such as bond proceeds, property taxes, and reserves to pay for O&M and capital expenses. These revenues are projected to cover \$45.0 million of expenditures in FY21, leaving \$109.4 million to be paid for from revenues from wastewater system charges. FY19 wastewater system charges are



projected to generate \$101.3 million of the necessary \$109.4 million, leaving \$8.1 million, or 8.0 percent, of incremental expenditures to be addressed from increases in the wastewater system charges. This 8.0 percent increase is proposed to be distributed over two years, with a 4.0 percent increase in FY20 and a 4.0 percent increase in FY21, consistent with the projections made when the FY18 and FY19 budget was adopted.

**Table 1 - Revenue Shortfalls (In Million\$) Addressed Through Rate Increase**

	<b>FY19</b>	<b>FY21</b>	<b>2-Yr Δ</b>
<b>Revenue Requirement</b>			
+ O&M expense	\$73.1	\$78.6	7.5%
+ Debt service expense	31.9	29.8	-6.6%
+ Capital expense	39.6	46.0	16.2%
Total expenses =	144.6	154.4	6.8%
- Other revenues	-44.0	-45.0	2.3%
Revenue requirement =	\$100.6	\$109.4	8.7%
<b>Revenue Adjustment</b>			
+ Revenue requirement		\$109.4	
- Revenue from existing rates		-101.3	
Difference =		\$8.1	
<b>Total Rate Revenue Requirement Adjustment</b>		<b>8%</b>	

### **Wastewater System Cost of Service Study and FY20 and FY21 Proposed Charges**

State law and District policy require that the District's property-related rates and charges, including most components of the wastewater system's rates and charges, be based on the cost of providing service. A COS study allocates operating and capital costs to each type of customer based on both the customer's wastewater discharge characteristics and the wastewater facility design and operations. This nexus between wastewater discharge and cost forms the financial and legal basis for setting utility rates and charges. Over time, both customer wastewater discharge characteristics and costs can change and a COS study helps reconcile these changes with revenues under existing rates and charges. COS studies often result in recommended modifications to existing rates and charges.

The District retained Raftelis Financial Consultants (RFC) to perform a COS study for the wastewater system. The RFC study was completed in May 2019 and indicated that the District's charges were generally in line with Proposition 218's cost of service principles, but the study also recommended some adjustments. The recommended adjustments were incorporated into the proposed FY20 and FY21 wastewater system charges. Details of the COS adjustments and the FY20 and FY21 rate calculations from the District's May 2019 COS study are shown in Appendix A. The District believes that its established and proposed rates for wastewater service comply with the substantive standards of Proposition 218 (California Constitution article XIII D, section 6) and do

not exceed the proportional cost of providing wastewater service on a parcel basis at each given level of usage.

The COS study developed detailed operating and capital cost allocations for the treatment processes at the Main Wastewater Treatment Plant (MWWTP), interceptors and wet weather facilities and evaluated alternative methods of measuring wastewater strength. Annual operating and capital costs funded by wastewater system rates and charges were allocated to wastewater treatment categories of flow, chemical oxygen demand (COD), and total suspended solids (TSS). The flow, COD, and TSS costs were then assigned to various customer classes in proportion to their loadings in compliance with Proposition 218. The billed strength loadings assumptions for residential and non-residential customers were validated with an analysis of measurements at the MWWTP.

In addition, based on the COS study a decision has been made to use COD instead of the chemical oxygen demand filtered (COD<sub>f</sub>) as a measure of waste strength, to be more consistent with other larger agencies and because the District's customer base no longer has many high strength industrial customers where the distinction is relevant.

The WWFC funds capital expenses for the inflow and infiltration (I&I) facilities required to handle the wet weather flows that enter the wastewater system through the local collection systems and sewer connections. The recommendations from the COS study results in slight changes to the residential and non-residential wastewater treatment and wet weather charges.

Key findings of the wastewater COS study are summarized below:

#### *Wastewater System Treatment Charges*

- Lower influent strength measured at the treatment plant confirms lower strength for residential customers, as well as non-residential customers. The result is a decrease in the residential treatment charge and a slight shift in the proportion of costs to non-residential uses with a corresponding increase in non-residential customer charges.
- The wastewater monthly cap of 9 CCF for SFR was reviewed and confirmed – usage above 9 CCF is considered to be largely irrigation usage and thus does not enter the wastewater system.
- Wastewater system treatment charges continue to be billed based on volume of flow (in \$/CCF). The strength of the flow is also considered and is measured in pounds of total suspended solids (\$/pound TSS) and pounds of COD (\$/pound COD), instead of COD<sub>f</sub> in order to be more consistent with other utilities.

#### *Wet Weather Facilities Charge*

- The COS analysis indicates adjustments to the WWFC are needed to reflect current and updated costs of the program. The result is a slight increase in the I&I costs assigned to the WWFC.

Based on the COS study, the District will retain its existing wastewater customer classes and rate structure. Wastewater service fees have three customer classes: residential, multi-family

residential, and non-residential. Non-residential customers are further classified based on the type of business operated, which are grouped together into Business Classification Codes (BCC) based on common characteristics of wastewater contributed to the system, including flow and strength. Together, the rates for the components of the wastewater service fees are structured to proportionately recover the costs of providing wastewater services among the various customer classes. The rates for the wastewater fees have five components: a Service Charge, a Flow Charge, a Strength Charge, a SF Bay Pollution Prevention Fee, and a WWFC.

#### Proposed FY20 and FY21 Wastewater System Rates and Charges Subject to Proposition 218

As a result of implementing the recommendations from the COS study for the proposed rates and charges for the wastewater system, some wastewater rates and charges in FY20 would decrease and others would increase. For FY21, wastewater rates and charges would increase an additional 4.0 percent. With the proposed FY20 and FY21 changes to the wastewater system rates and charges, revenue collected from all wastewater system rates and charges would increase by 4.0 percent in FY20, and an additional 4.0 percent in FY21 from what would be collected under the current FY19 charges. The impact of the proposed changes to the FY20 and FY21 wastewater system rates and charges on customer bills will depend on the type of customer and the volume of wastewater discharge. For the typical SFR homeowner who pays both the wastewater treatment charges collected on the water bill and the Wet Weather Facilities Charge collected on the property tax bill, the total increase for wastewater system rates and charges is 2.7 percent for FY20, and 4.0 percent for FY21.

Individual charges proposed for FY20 and FY21 are rounded to the nearest whole cent after the increases are applied to the current service charges. The impact on a customer's bill of the proposed increases will differ slightly for each customer class and for individual customers within each customer class depending on the respective monthly wastewater flow. Tables 2 through 4 illustrate the impact of the proposed increases on specific charges for various categories of users. Six CCF per month represents the average indoor water use for residential customers. All these tables incorporate the proposed increases consistent with the 2019 COS study.

Table 2 shows the customer impacts of the proposed FY20 and FY21 charges for wastewater treatment.

**Table 2 - Customers' Monthly Wastewater Treatment Bill Impacts - Includes Service, Flow and Strength Charges and SF Bay Pollution Prevention Fees**

Monthly Wastewater Charges on Water Bill									
	Meter (Inches)	Use (CCF)	FY19 Bill	FY20 Bill	Increase from FY19	Percent Change	FY21 Bill	Increase from FY20	Percent Change
Average Single Family Residential	5/8	6	\$21.95	\$22.15	\$0.20	0.9%	\$23.02	\$0.87	3.9%
Single Family Residential	5/8	9	\$25.55	\$25.96	\$0.41	1.6%	\$26.98	\$1.02	3.9%
Multi-Family Residential 4 dwelling units	1	25	\$70.64	\$68.81	\$(1.83)	-2.6%	\$71.50	\$2.69	3.9%
Multi-Family Residential 5+ dwelling units	1	50	\$143.62	\$149.52	\$5.90	4.1%	\$155.30	\$5.78	3.9%
Commercial	1	50	\$148.10	\$154.00	\$5.90	4.0%	\$159.78	\$5.78	3.8%
Industrial	2	500	\$8,006.60	\$9,037.50	\$1,030.90	12.9%	\$9,387.78	\$350.28	3.9%

The unit rates listed in Table 3 are used to calculate the Strength Charge and Flow Charge for residential and non-residential customers based on the billable constituents in their wastewater discharge. The unit rates are based upon an allocation of costs to billable constituents for flow, COD and TSS which are used to determine the unit cost for each billable constituent. The unit rate increases listed in Table 3 combine the results of the COS study with the overall rate increases for FY20 and FY21. Due to the proposed FY20 switch to COD from CODf, there is not a current COD unit rate for FY19.

**Table 3 - Proposed Wastewater Treatment Unit Rates for Residential and Non-Residential Customers**

Wastewater Treatment Unit Rates					
Unit Rates	FY19	FY20	Percent Change	FY21	Percent Change
Service Charge (\$/account)	\$6.12	\$7.02	14.7%	\$7.30	4.0%
Flow (\$/CCF)	\$1.196	\$1.266	5.9%	\$1.317	4.0%
Strength - COD (\$/pound)	N/A	\$0.129	N/A	\$0.134	3.9%
Strength -Total Suspended Solids (\$/pound)	\$0.517	\$0.530	2.5%	\$0.551	4.0%

### *Residential Wastewater Charges*

The residential wastewater charges on the water bill are composed of the treatment charges and a separate SF Bay Pollution Prevention Fee. Residential customers include single family customers and multi-family customers with up to four dwelling units per premise.

For the wastewater treatment, unit rates are applied to residential discharge characteristics to calculate the fixed residential Strength Charge. Residential customers also pay the Service Charge and a Flow Charge that varies with water use to a maximum of 9 CCF per month per dwelling unit. The 9 CCF per month per dwelling unit maximum flow charges only applies to residential customers. Under the proposed increase, the average wastewater charges on the residential customer bill will increase \$0.20 per month in FY20 from \$21.95 to \$22.15 (0.9 percent). For FY21, the average wastewater bill will increase \$0.87 per month from \$22.15 to \$23.02 (3.9 percent). The monthly charges include the SF Bay Pollution Prevention Fee (described below), which remains at \$0.20 per month for FY20 and FY21 for residential customers. In addition to the wastewater system charges collected on the water bill, wastewater customers also pay a WWFC (described below) that varies with lot size and is collected on the property tax bill.

**Exhibit 1** compares the estimated annual residential wastewater collection and treatment service charges with comparable charges of other agencies. The total estimated average District charge for FY20, including the SF Bay Pollution Prevention Fee and WWFC, is \$377 per year for treatment and wet weather. It should be noted that in Exhibit 1 the average city charge for wastewater collection service is added to the District's wastewater treatment charges in order to calculate an average total charge for residential wastewater service. The total residential service charge is then compared to similar service charges for other agencies and communities in the Bay Area.

### *Non-residential Wastewater Charges*

Non-residential customers are further classified based on the type of business operated, and assigned into Business Classification Codes (BCC) based on common characteristics of wastewater contributed to the system, including flow and strength. Non-residential users are assigned typical waste strengths by BCC for COD and TSS. The unit rates are applied to the assigned strengths for each BCC to determine individual non-residential combined flow and strength charges (\$ per CCF).

The proposed FY20 and FY21 non-residential combined flow and strength charges for each BCC rate are shown on Schedule A – Wastewater Department Rates for Treatment Service. These charges are based on the FY20 and FY21 proposed unit rates for flow and strength as determined by the 2019 COS study plus the overall 4.0 percent increases to support FY20 and FY21 revenue requirements and capital and operating budgets. The non-residential combined flow and strength charges have been rounded to the nearest whole cents (\$ per CCF). After the adjustments from the 2019 COS study and the overall 4.0 percent increase, the FY20 non-residential combined flow and strength charges are proposed to increase between 3.7 percent to 14.5 percent, depending on the BCC. In FY21, non-residential combined flow and strength charges are proposed to be increased by 4.0 percent, but due to rounding of the charges to the whole cent, the resulting increases range from 3.8 percent to 4.7 percent when compared to FY20 charges.

In addition to the wastewater system charges collected on the water bill, wastewater customers also pay a WWFC collected on the property tax bill depending on lot size (described below). For



customers who do not receive a property tax bill (tax-exempt entities) the charge is collected on the water service bill.

Non-residential users also pay the proposed Service Charge of \$7.02 in FY20 and \$7.30 in FY21 on their monthly water service bill. The SF Bay Pollution Prevention Fee of \$5.48 for FY20 and FY21 is also included on the monthly water service bill for non-residential customers.

### *Wet Weather Facilities Charge*

The WWFC is a fixed charge that is imposed on the property itself. The WWFC funds capital expenses for the I&I facilities (wet weather facilities, interceptors, pumping stations and storage basins) that are required to handle the wet weather flows that enter the wastewater system through the local wastewater collection systems and sewer connections. The volume of wet weather flows that enter the wastewater system from each property is proportional to the size of the collection system needed to serve each property. Properties with larger lots require more linear feet of collection system which presents more opportunity for storm water and ground water to enter through defects in the collection system. The volume of wet weather flows in the collection system has no direct relationship to a customer's monthly water use; nor is it dependent on whether the wastewater discharge is from a residential or non-residential customer. For these reasons, lot size rather than water use is used as basis of the WWFC. The structure of WWFC is based on the rationale that larger lots contribute proportionally more to the wet weather flows than smaller lots. Accordingly, the WWFC is structured into three generalized lot sizes (or bins): 0 to 5,000 square feet (sq. ft.), 5,001 to 10,000 sq. ft., and over 10,001 sq. ft. The WWFC is based on median lot size for each of these bins.

The I&I capital facilities are designed to handle wet weather flows that are in excess of the normal wastewater discharges from wastewater customers. Because the WWFC is based on the size of the property and is unrelated to water or wastewater usage at the property, the District collects the WWFC on the property tax bill for all parcels that have connections to the local wastewater collection systems within the District's wastewater service area. The WWFC for public agencies that are exempt from property taxes is collected through the District's billing process. As part of the FY20 and FY21 Proposition 218 rates approval process, the Board will adopt a separate resolution establishing the collection of the FY20 and FY21 WWFC on the property tax bill for Alameda and Contra Costa counties. In addition, prior to the submittal of the FY20 and FY21 WWFC filings with Alameda and Contra Costa counties, the complete listing of the WWFC by parcel number will be filed with the Board.

The WWFC was reviewed as part of the 2019 COS study. With adjustment for the 2019 COS study and the proposed overall 4.0 percent FY20 wastewater rate increase, the WWFC will increase 7.2 percent in FY20 when compared to the FY19 charge. The proposed increase for FY21 is 4.0 percent.

Table 4 shows the proposed 7.2 percent increase in FY20 and proposed 4.0 percent increase in FY21 for the WWFC for each of the three lot size categories.

**Table 4 - Proposed Wet Weather Facilities Charge - (\$/Lot Size)**

Wet Weather Facilities Charge on Property Tax Bill							
Lot Size	FY19 Bill	FY20 Bill	Increase from FY19	Percent Change	FY21 Bill	Increase from FY20	Percent Change
Small Lot 0 - 5,000 sq. ft.	\$103.74	\$111.24	\$7.50	7.2%	\$115.70	\$4.46	4.0%
Medium Lot 5,001 - 10,000 sq. ft.	\$162.06	\$173.78	\$11.72	7.2%	\$180.74	\$6.96	4.0%
Large Lot >10,000 sq. ft.	\$370.44	\$397.20	\$26.76	7.2%	\$413.10	\$15.90	4.0%

**Wastewater Pollution Prevention Programs and Pretreatment Fees**

The District must undertake a variety of activities to successfully operate the Pretreatment Program and Pollution Prevention Program required by the United States Environmental Protection Agency (EPA) and the State of California (through the Regional Water Quality Control Board (RWQCB)).

Pretreatment Program activities include:

- Establishing discharge permit and monitoring requirements for industrial and commercial users
- Conducting inspections of industrial and commercial facilities
- Sampling industrial and commercial users' waste streams
- Reviewing industrial and commercial user reports
- Determining industrial and commercial user compliance status
- Initiating enforcement actions
- Reporting progress to the EPA and RWQCB

SF Bay Pollution Prevention Program activities include:

*For non-residential customers*

- Identifying and monitoring pollutants of concern
- Developing pollution prevention strategies to reduce pollutants of concern from targeted commercial businesses
- Managing the federally-mandated Dental Amalgam program for dental dischargers
- Developing a permitting program for the emerging commercial businesses with potential pollutants of concern (e.g., cannabis growing and processing)
- Developing pollution prevention control strategies
- Conducting targeted outreach for identified business types including developing and distributing best management practices information and pollution prevention literature
- Coordinating with other wastewater agencies to obtain efficiencies in program development and production of outreach materials

- Providing pollution prevention information for businesses on the District's website

*For residential customers*

- Targeting outreach to reduce residential discharges of pollutants of concern by creating public advertising campaigns and attending public events, providing in-person education, and outreach to residents and community groups
- Developing collaborative efforts with other wastewater agencies to obtain economies of scale and other efficiencies
- Establishing strategic partnerships with local environmental organizations such as Save The Bay, Baykeeper, and Environmental Working Group
- Conducting research to identify possible control strategies for residential sources of emerging pollutants of concern
- Developing and implementing product stewardship activities
- Providing opportunities for residential customers to dispose of targeted pollutants in an environmentally responsible manner
- Providing pollution prevention information for residents on the District's website

To effectively implement and ensure compliance with the Federal and State pretreatment program regulations, the District implements a permitting, monitoring, and enforcement response system approved by the EPA. The EPA requires that the District provide sufficient budget and staff for program implementation. Sufficient resources and qualified personnel are funded primarily by fees that are applied to industrial and commercial users. Each year, the District's Pretreatment and Pollution Prevention Program budget and source of funding is submitted to the EPA and RWQCB.

In response to continuing changes in the National Pretreatment Program and to meet requirements of the District's MWWTP National Pollutant Discharge Elimination System Permit, the District must continue to implement a robust Pretreatment Program and Pollution Prevention Program. Funds for the Pollution Prevention Program are generated by the SF Bay Pollution Prevention Fees from residential and non-residential customers. Funds to operate the Pretreatment Programs are generated from fees for Wastewater Discharge Permits, Monitoring and Testing, and Violation Follow-up activities.

SF Bay Pollution Prevention Fees

The Pollution Prevention Program, required by the RWQCB, develops and implements strategies to minimize and monitor pollutants from both residential and non-residential sources. The fee applies to accounts in the District's wastewater service area to cover costs for program implementation. As shown on Schedule D – Wastewater Department Other Fees (see Chapter 5), the SF Bay Pollution Prevention Fee for non-residential customers will remain \$5.48 per month for FY20 and FY21 to fund the pollution prevention activities that target pollutants from non-residential customers. The fee for residential customers will remain \$0.20 per month for FY20 and FY21 to fund the pollution prevention activities that target pollutants from residential customers. The SF Bay Pollution Prevention Fees are collected on the water bill in addition to the wastewater service charge and have not increased since 2008.

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**Proposed FY20 and FY21 Wastewater System Rates and Charges NOT Subject to Proposition 218****Pretreatment Program****Wastewater Department Industrial Permit Fees**

There are three types of Wastewater Permits: 1) Wastewater Discharge Permit, 2) Estimation Permit, and 3) Limited Term Discharge Permit. Each has a fee to recover costs.

1. The Wastewater Discharge Permit establishes compliance reporting requirements, site-specific discharge limitations, industry self-monitoring requirements, and may include billing conditions for unique wastewater strength and flow. Wastewater Discharge Permits are extremely detailed and include specific provisions required by the EPA and the State. Staff must review permit application documents, develop permit requirements, review compliance reports, perform onsite inspections, revise permit conditions, update billing to incorporate rate or regulatory changes, provide information to industrial users and maintain electronic and hard copy data files. The renewal frequency of the Wastewater Discharge Permits is typically 5 years with an annual permit fee. The proposed increase reflects actual District staff costs. For FY20, the annual Wastewater Discharge Permit fee is recommended to be \$2,810, an increase of \$110 over the FY19 fee. For FY21 the annual permit fee is recommended to be \$2,920, an increase of \$110 over the FY20 fee as shown on Schedule C – Wastewater Department Industrial Permit Fees (see Chapter 5).
2. The Estimation Permit establishes billing conditions when wastewater volumes cannot be determined by District water meters due to significant non-sewer use, such as irrigation. Estimation Permits are optional and issued at the request of a discharger when wastewater flow is significantly less than metered water consumption. In issuing these permits, staff must review permit application documents, develop permit requirements, review compliance reports, revise permits to incorporate rate or regulatory changes, provide information to industrial users, and maintain electronic and hard copy data files. The proposed increase reflects actual District staff costs. For FY20, the Estimation Permit fee is recommended to be \$1,060, an increase of \$45 over the FY19 fee. For FY21 the permit fee is recommended to be \$1,110, an increase of \$50 over the FY20 fee as shown on Schedule C – Wastewater Department Industrial Permit Fees (see Chapter 5).
3. Limited Term Discharge Permits are issued for special wastewater discharge conditions not included in the District's permit and fee structure. Typical uses of the limited term permit would be for construction dewatering or remediation projects. The permit fee covers the cost of labor required to review the application, issue the permit, including establishing pretreatment conditions, and monitoring discharge conditions. The treatment cost is not included in the permit fee and is charged from Schedule A – Wastewater Department Rates for Treatment Service based on the type of discharge. For example, construction dewatering discharges would be charged under Groundwater Remediation. After a review of the District's costs to issue and administer the Limited Term Discharge Permits, the District proposes to increase the Limited Term Discharge Permit fee from \$2,500 per year to \$2,570 in FY20 and to \$2,670 in FY21, as shown on Schedule C – Wastewater Department Industrial Permit Fees (see Chapter 5).

## Monitoring Fees

For some Wastewater Discharge Permits issued to industrial users, the District requires monitoring and testing of the discharge. The Monitoring Fee recovers the cost of labor and equipment to perform field inspections, collect and coordinate samples for lab testing, install and maintain field monitoring equipment, and prepare inspection reports. Staff recommends that the current fee of \$1,430 be increased to \$1,490 in FY20 and to \$1,550 in FY21 as shown on Schedule D – Wastewater Department Other Fees (see Chapter 5). These increases reflect the actual staff costs to perform the monitoring activities.

## Violation Follow-up Fees

Wastewater permit holders are required to follow the conditions listed in their permits. If the District determines that the permit holder has violated the conditions of their permit, a series of violation actions are taken with accompanying fees.

A stage 1 violation follow-up fee consists of follow-up actions in response to reporting or required action violations that do not include a discharge violation. These violations can usually be resolved without sampling. A stage 1 violation follow-up fee is charged to conduct this follow-up activity. Staff must identify or review the violation, provide formal notification to the violators, determine compliance status, prepare billing documentation, and monitor correction activities. Staff recommends that the current fee of \$670 be increased to \$700 in FY20 to reflect actual costs. For FY21, the proposed fee is \$730.

A stage 2 violation follow-up fee is required for wastewater discharge violations or any violation follow-up that requires sampling. Staff must identify or review the violation, provide formal notification to the violator, prepare billing documentation, conduct a follow-up inspection and sample the wastewater discharge, and determine ongoing compliance status. Staff recommends that the current fee of \$1,410 be increased to \$1,490 for FY20 to reflect actual costs. For FY21, the fee is proposed is \$1,550.

A stage 3 violation follow-up fee is required when enforcement orders are issued. Staff must identify or review the violation, provide formal notification to the violator, prepare billing documentation, conduct a follow-up inspection, sample the wastewater discharge, prepare and administer enforcement orders, and determine ongoing compliance status. Staff recommends that the current fee of \$2,950 be increased to \$3,070 for FY20 to reflect actual costs. For FY21, the fee is proposed to be \$3,190. The proposed violation follow-up fees are shown on Schedule D – Wastewater Department Other Fees (see Chapter 5).

## Private Sewer Lateral Compliance Fees

The District has been operating under a Consent Decree with the EPA, State Water Resources Control Board (SWRCB), the RWQCB and the District's satellite collection system agencies since September 2014. As part of the Consent Decree, the District is required to implement a Regional Private Sewer Lateral (PSL) Ordinance. The ordinance requires property owners to obtain a compliance certificate from the District when they hit one of three triggers: transferring title to property (e.g., buying/selling a home), performing remodeling or construction work valued at greater than \$100,000, or increasing or decreasing water meter size. The District has been implementing this program since August 2011, having been under a prior regulatory order.



The current fee for the compliance certificate is \$250 and was last increased in FY18. To recover the District's costs for the inspection and to issue the compliance certificate, the compliance certificate fee is proposed to increase to \$260 for FY20 and to \$270 in FY21. The charge for a time extension certificate is also proposed to increase in FY20 from \$100 to \$110 to reflect the District's costs. The fees for rescheduling, extra lateral or additional testing, and off-hours verification testing are also proposed to increase 5 to 10 percent for FY20, and the fee for off-hours verification testing is proposed to increase an additional 5 percent in FY21. For clarity and consistency with other violation-related cost of service based fees, the PSL non-compliance initial and monthly fees will be renamed PSL Violation Follow-Up – Initial Fee and PSL Violation Follow-up – Monthly Fee. The PSL Violation Follow-up – Initial Fee is proposed to increase from \$350 to \$370 for FY20 and to \$380 for FY21 to reflect actual costs. The PSL Violation Follow-up – Monthly Fee is proposed to increase from \$87 to \$100 for FY20 to reflect actual costs. The proposed PSL compliance fees are shown on Schedule D – Wastewater Department Other Fees (see Chapter 5).

Table 5 shows the proposed permit fee changes for FY20 and FY21.

**Table 5 - Summary of Proposed Permit Fee Changes**

Description	FY19 Fee	Proposed FY20		Proposed FY21	
		Fee	\$ Incr	Fee	\$ Incr
Wastewater Discharge Permit	\$2,700	\$2,810	\$110	\$2,920	\$110
Estimation Permit	\$1,015	\$1,060	\$45	\$1,110	\$50
Limited Term Discharge Permit	\$2,500	\$2,570	\$70	\$2,670	\$100
Monitoring Fee (per event if required)	\$1,430	\$1,490	\$60	\$1,550	\$60
Violation Follow-Up Stage 1	\$670	\$700	\$30	\$730	\$30
Violation Follow-Up Stage 2	\$1,410	\$1,490	\$80	\$1,550	\$60
Violation Follow-Up Stage 3	\$2,950	\$3,070	\$120	\$3,190	\$120
Private Sewer Lateral Compliance Fees - Compliance Certificate	\$250	\$260	\$10	\$270	\$10
Private Sewer Lateral Compliance Fees - Time Extension Certificate	\$100	\$110	\$10	\$110	-
Private Sewer Lateral Compliance Fees - Inspection Reschedule	\$73	\$80	\$7	\$80	-
Private Sewer Lateral Compliance Fees - Extra Lateral or Additional	\$66	\$70	\$4	\$70	-
Private Sewer Lateral Compliance Fees - Off-Hours	\$200	\$210	\$10	\$220	\$10
Private Sewer Lateral Compliance Fees – Violation Follow-Up – Initial Fee	\$350	\$370	\$20	\$380	\$10
Private Sewer Lateral Compliance Fees – Violation Follow-Up – Monthly Fee	\$87	\$100	\$13	\$100	-

## **Laboratory Testing Charges**

The District may require laboratory testing and analysis of samples as part of a discharge permit or other action. The Testing Fees recover the cost of labor and equipment to perform the laboratory testing and analysis. Based on the updated cost to perform the laboratory testing, the charges for some tests have been reduced and some have been increased. In addition, testing for individual metals (arsenic, cadmium, chromium, copper, iron, lead, nickel, silver, and zinc) has been combined for FY20 into the ICP Metals Scan test because the EPA methodology requires that the ICP Metals Scan process that tests for the entire group of metals be used. Beginning FY20, the ICP Metals Scan charge of \$224 will be charged for any metals test which was previously charged \$70 for each individual metals test. The proposed FY20 laboratory testing charges are shown on Schedule E – Wastewater Department Testing Fees (see Chapter 5) and reflect changes in laboratory costs and elimination of the individual metals tests.

## **Resource Recovery Program**

The Resource Recovery program accepts delivery of trucked wastes to use excess treatment capacity at the MWWTP and generate tip fee revenue for the District. This program provides an environmentally sound disposal alternative to the community while maintaining fiscal responsibility to the ratepayers by fully utilizing treatment assets. Based on the District's experience in operating the Resource Recovery program and the knowledge of customer's waste streams, the District proposes to increase the FY20 treatment rates for Brine, Sludge and Solid Organic Materials in FY20. The treatment rates for these waste streams have not been increased since FY14 or earlier.

The permit fee is proposed to be renamed the Annual Administrative Fee to reflect that the fee covers the administrative costs of accepting a customer's waste material. For FY20, the Annual Administrative Fee is proposed to increase from \$300 to \$350 per year. The higher volumes of trucked waste delivered during peak delivery times has resulted in gas production spikes that periodically exceed the capacity of on-site power generation. In order to incentivize trucked waste delivery during off peak periods, the proposed FY20 rates for Liquid Organic Material, Protein Material and Fats, Oil and Grease (FOG) have been modified from a fixed rate to an "up to" rate. The "up to" rate might be used during peak delivery periods and lower rates could be used for off-peak. The rate for Liquid Organic Material would change from \$0.04 per gallon to up to \$0.06 per gallon. The rate for Protein Material would change from \$0.08 per gallon to up to \$0.10 per gallon. The rate for FOG would change from \$0.08 per gallon to up to \$0.12 per gallon. The updated resource recovery rates and fees for FY20 are shown in the Schedule F – Wastewater Department Rates for Resource Recovery Material Treatment (see Chapter 5).

## **Wastewater Interceptor Connection Review and Inspection Fee**

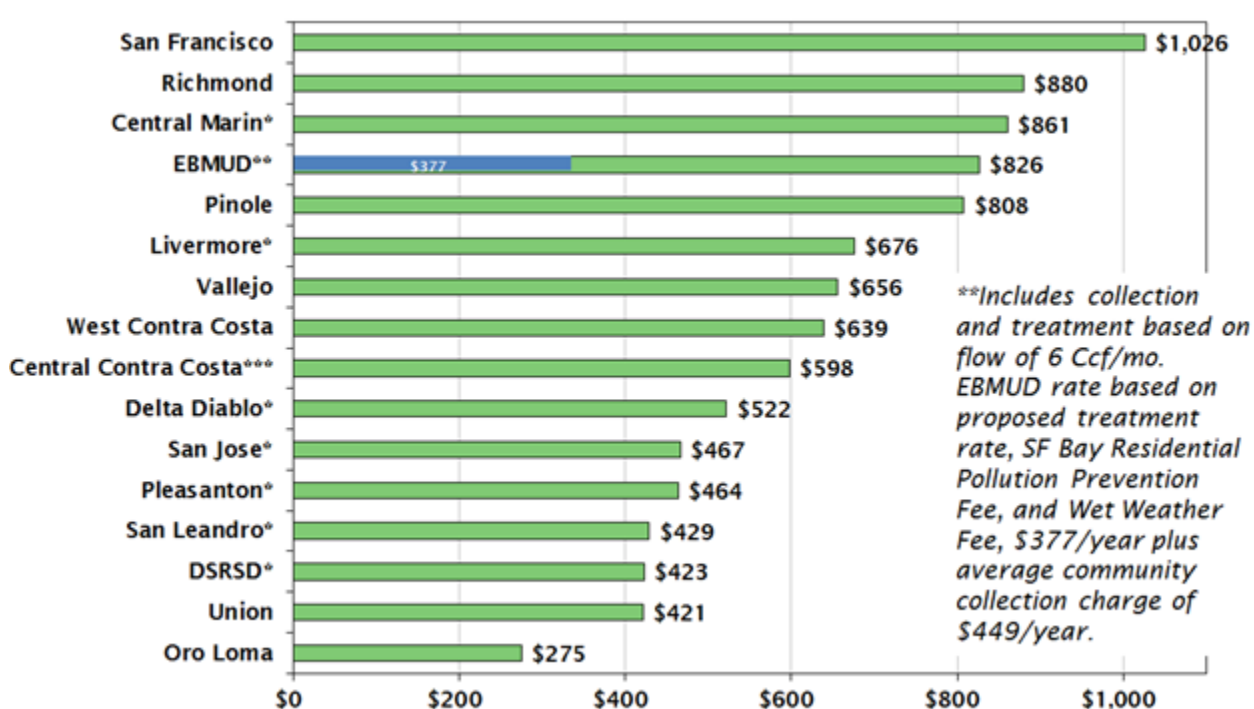
This fee was established in 2005 to recover the District's staff time required for plan review, project coordination and construction inspection of requests made by cities to modify their interceptor connections. Only cities and the Stege Sanitary District can apply for either new connections or larger connections to the District's interceptors. These projects are designed, constructed and funded by the applicants. When an applicant makes a request for a new or modified interceptor connection, District staff must review the engineering design and evaluate any potential operational or maintenance impacts of the work. Once approved, the District must coordinate and inspect the construction work of the applicant.

The current fee is \$1,750 for review and coordination plus \$2,300 for inspection for a total of \$4,050 and has not increased since 2005 when the fee was first established. Based on an analysis of the District's actual costs to perform this work, the proposed fee for FY20 is \$11,500 for review, coordination, and inspection with a lower fee of \$9,400 for each additional connection submitted under the same project with the same design and pipe sizes. The proposed FY20 fees are shown on Schedule H – Wastewater Department Interceptor Connection Review, Coordination and Inspection Fee (see Chapter 5).

## Exhibit 1

## COMPARATIVE RESIDENTIAL WASTEWATER CHARGES

### Annual Charge for SFR – July 2019



\*FY19 rates, possible rate increases for July 2019

\*\*\*Proposed FY20 rates



#### 4. Wastewater Capacity Fees



## Chapter 4 – Wastewater Capacity Fees

### INTRODUCTION

The Wastewater Capacity Fee (WCF) was implemented in 1987 to recover costs of providing wastewater treatment capacity for new or expanded system use. The WCF is based on a “buy-in” or an equity approach, whereby new users buy-in to a wastewater system that has adequate capacity to serve both existing demands and new growth. The wastewater system capacity is expressed in terms of wastewater flow volume (flow) and strength factors including Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS).

The WCF applies to all dischargers who increase wastewater volume or strength. For example, an additional capacity fee may be required to be paid if a property is developed and connects to the wastewater system, changes use or is redeveloped and increases the volume or strength of the wastewater it discharges, or a flow review has been completed by the District that demonstrates that the volume and/or strength of the wastewater discharged from a non-residential property has significantly increased or is greater than anticipated at the time a WCF was first paid.

The WCF is calculated based on the anticipated flow contributions multiplied by the wastewater strength measured or assigned for each classification of customer and the unit capacity rates for flow and strength factors. For non-residential customers, the District may conduct a review of the actual flow and strength within 24 months of the business being fully established and discharging, to verify the estimated demand for wastewater capacity. The review may result in additional capacity fees if the actual flow and strength exceeds the original estimate.

These rates are not subject to the requirements of California Constitution article XIII D, section 6 (i.e., Proposition 218). However, they are subject to California Constitution article XIII C, section 1(e) (i.e., Proposition 26), and California Government Code section 66013, and are in full compliance with their requirements.

### RECOMMENDATIONS

- Adopt the findings in the 2019 Wastewater Capacity Fee study based on the equity buy-in methodology and an updated analysis of value of the wastewater capital assets.
- Implement the WCF study recommendations to streamline the process of determining the non-residential WCF.
- Adopt Schedule G for the Wastewater Department Capacity Fees based on the 2019 WCF study for FY20.

If adopted, the changes and updates recommended for the WCF will be effective on July 1, 2019.

### DISCUSSION

For the FY20 rate update, the District hired a financial rate consultant to conduct two comprehensive wastewater studies, a cost of service (COS) study of wastewater treatment service and a capacity fee study on the WCF. The equity buy-in methodology was used in determining the

updated WCF. This methodology is appropriate in instances where there is excess capacity available to serve new connections, as is the case with the District.

The concept of the equity buy-in methodology is that new connections to the system pay the same amount as existing connections have already contributed to the system. The total system value is then calculated and divided by the current loadings at treatment plant to determine unit rates for flow (\$ per hundred cubic feet (CCF)), COD (\$ per pound (lbs)), and TSS (\$ per lbs). Additionally, the consultant evaluated several approaches for streamlining the process of determining non-residential WCFs. The approach that has been selected is similar to the Water System Capacity Charge (SCC) process for new customers.

#### Wastewater Capacity Fee Study

As part of the buy-in methodology, the WCF study calculated the value of the existing capital facilities using replacement cost less depreciation for each capital asset. In addition, the wastewater cash reserve balance was included in the total value of the wastewater system for the buy-in methodology because these reserves have been built up over time by existing rate customers and will be used to repair or replace aging infrastructure. The outstanding principal on the existing wastewater debt has been subtracted from the total. Table 1 shows the total system value of \$702 million.

**Table 1 - Total System Value**

<b>Total System Value</b>	
Wastewater System Capital Assets Value	\$1,047,651,236
Reserve Balance	\$74,175,000
Less Total Outstanding Debt	\$420,207,400
<b>Total System Value</b>	<b>\$701,618,836</b>

The WCF study developed an allocation of the total system value to the flow, COD and TSS components of the WCF based the allocations developed for the wastewater COS study (see Table 2).

**Table 2 - Total System Value Allocation**

<b>% Allocation</b>		<b>Cost Allocation</b>
Flow	40%	\$281,986,612
COD	21%	\$149,763,582
TSS	38%	\$269,868,642
<b>Total</b>	<b>100%</b>	<b>\$701,618,836</b>

Table 3 shows the total flow, COD and TSS loadings to the treatment plant, which was used to calculate the updated FY19 unit rates in Table 4. The proposed FY20 unit rates includes a 3.027 percent escalation for the Engineering News Record Cost Index applied to the FY19 unit rates to reflect an increase in the total system value used in the calculation of the WCF for FY20.

**Table 3 - Wastewater System Capacity**

Annual Treatment Plant Loadings	
Flow (CCF)	20,983,276
COD (lbs)	106,264,585
TSS (lbs)	41,790,303

**Table 4 - WCF Updated FY19 Unit Rates and Proposed FY20 Unit Rates**

	System Value (A)	Plant Loadings (B)	Updated FY19 Unit Rates (C)=(A)/(B)	Proposed FY20 Unit Rates	Current FY19 Unit Rates
Flow	\$281,986,612	20,983,276	\$13.44 per CCF per yr	<b>\$13.85 per CCF per yr</b>	\$15.99 per CCF per yr
COD	\$149,763,582	106,264,585	\$1.41 per lbs per yr	<b>\$1.45 per lbs per yr</b>	\$1.31 per lbs per yr
TSS	\$269,868,642	41,790,303	\$6.46 per lbs per yr	<b>\$6.66 per lbs per yr</b>	\$6.33 per lbs per yr

#### Residential Wastewater Capacity Fee

The WCF is assessed on a per dwelling unit basis for all residential connections including single family residential, 2 to 4 dwelling units multi-family residential, and 5 dwelling units and greater multi-family residential. The proposed FY20 WCF is calculated using the District's baseline residential indoor water use of 84 CCF per year and COD loadings of 374 lbs per year and TSS loadings of 157 lbs per year determined from the recent wastewater COS study on wastewater treatment service. The proposed residential WCF for FY20 is \$2,750 per dwelling unit, an increase of 5.4 percent over the current fee of \$2,610.

#### Non-Residential Wastewater Capacity Fee

An objective of the WCF study was to streamline the process of determining the non-residential WCF. Currently, staff completes detailed analysis of the estimated annual wastewater flow for each non-residential applicant using various parameters of the proposed facilities and operations. To streamline the process, the WCF study proposes a process similar to the Water System Capacity Charge (SCC) where non-residential applicants using meter sizes up to 1-1/2 inches will be assessed a capacity fee based on the meter size. For the WCF, in addition to the meter size, the WCF will be based on a strength category of low, medium, or high as assigned by the District. For applicants using meters sized greater than 1-1/2 inches, staff will complete an analysis of the



estimated annual wastewater flow for the proposed facilities and operations, which is similar to the process for the water system SCC.

The WCF study analyzed the annual water use for all non-residential customers and found that for meter sizes 1-1/2 inches and under, the average annual non-residential water use by meter size could be used as the estimate of the annual wastewater flow used in the calculation of the WCF for new non-residential applicants. Table 5 shows the average annual water use assigned to each meter size for the WCF.

**Table 5 - Annual Wastewater Flow by Meter Size**

<b>Meter Size</b>	<b>Annual Wastewater Flow</b>
5/8 inch	132 CCF
3/4 and 1 inch	347 CCF
1-1/2 inch	676 CCF

To create the strength categories for the non-residential WCF, each non-residential Business Classification Code (BCC) was placed into one of three strength categories: Low, Medium or High. Placement into these categories was determined by combining the assumed strengths for COD and TSS from the COS analysis. Table 6 shows the BCCs that are in each of the strength categories. Weighted average strengths for COD and TSS were then determined for each strength category using actual FY17 flows into the MWWTP, as shown in Table 7.

**Table 6 - Low, Medium and High WCF Strength Categories**

<b>Low Strength</b>		<b>Medium Strength</b>		<b>High Strength</b>	
<b>BCC</b>	<b>Description</b>	<b>BCC</b>	<b>Description</b>	<b>BCC</b>	<b>Description</b>
4500	Air Transportation	2088	Beverage Manufacturing & Bottling	2050	Bakeries (including Pastries)
7542	Automobile Washing and Polishing	2840	Cleaning and Sanitation Products	2020	Dairy Product Processing
7215	Coin Operated Laundromats	7210	Commercial Laundries	3410	Drum and Barrel Manufacturing
3200	Earthenware Manufacturing	2830	Drug Manufacturing	7218	Industrial Laundries
8060	Hospitals	5812	Food Service Establishments	3110	Leather Tanning and Finishing
7000	Hotels, Motels with Food Service	2030	Fruit and Vegetable Canning	2010	Meat Products
7300	Laboratories	2040	Grain Mills	2850	Paint Manufacturing
3470	Metal Coating	2893	Ink and Pigment Manufacturing	2077	Rendering Tallow
3400	Metal Products Fabricating	2810	Inorganic Chemicals Manufacturing	2090	Specialty Foods Manufacturing
3300	Primary Metals Manufacturing	2600	Pulp and Paper Products	2060	Sugar Processing
8200	Schools	2011	Slaughterhouses		
2820	Synthetic Material Manufacturing All Other Business Classification Codes (includes dischargers of only segregated domestic wastes from sanitary conveniences)				

**Table 7 - Low, Medium and High Strength Categories COD and TSS Concentrations**

	<b>Low Strength</b>	<b>Medium Strength</b>	<b>High Strength</b>
<b>Weighted Average COD Strength (mg/l)</b>	690	1,958	8,259
<b>Weighted Average TSS Strength (mg/l)</b>	262	749	820

The weighted average strengths by category and the flow by meter size were used to calculate the WCF for non-residential applicants using meter sizes up to 1-1/2 inches (see Table 8). The WCF will be calculated on a case by case basis for non-residential applicants with meter sizes greater than 1-1/2 inches using the WCF rates shown in Table 9.

**Table 8 - Proposed FY20 WCF for Non-Residential up to 1-1/2 Inch Meter Size**

<b>Meter Size</b>	<b>Low Strength</b>	<b>Medium Strength</b>	<b>High Strength</b>
5/8 inch	<b>\$4,090</b>	<b>\$8,280</b>	<b>\$16,210</b>
3/4 & 1 inch	<b>10,760</b>	<b>21,750</b>	<b>42,610</b>
1-1/2 inch	<b>20,960</b>	<b>42,390</b>	<b>83,020</b>

**Table 9 - Proposed FY20 WCF Rates for Non-Residential greater than 1-1/2 Inch Meter Size**

<b>WCF Rate \$ per annual CCF</b>		
<b>Low Strength</b>	<b>Medium Strength</b>	<b>High Strength</b>
<b>\$31.01</b>	<b>\$62.70</b>	<b>\$122.81</b>

#### WCF Credit for Replacing or Expanding Service

Per the District's policy, customers will receive a credit based on the WCF previously paid for service at the property. For FY20, the procedures for determining the WCF credit will be updated to be consistent with the proposed changes to the non-residential WCF process. The value of the WCF credit will be determined using the flow and strength assumed in the original WCF and updated using the current WCF schedule (for flow and strength). For properties on which no WCF was paid, customers will be granted a credit for the existing use. For existing meters 1-1/2 inches and smaller, the WCF credit will be calculated based on the current WCF schedule for the existing meter size and strength. For existing meters over 1-1/2 inches, the WCF credit will be calculated based on the most recent 10 years of usage and strength for the existing meter, provided that this value is not less than the value indicated in the schedule for the 1-1/2 inch meter. If the account is subject to an Estimation Permit, the usage credit will consider the diversion of water use from the sanitary sewer.

The updated Schedule G – Wastewater Department Capacity Fees is included in Chapter 5 of this report.







## **RECOMMENDED SCHEDULES OF RATES, CHARGES AND FEES**

**FY20**

### Water System

Schedule A – Rate Schedule for Water Service

Schedule B – Account Establishment Charge

Schedule C – Charges for Special Services

Schedule D – Water Service Installation Charges

Schedule E – Private Fire Service Installation Charges

Schedule F – Public Fire Hydrant Installation Charges

Schedule G – Water Main Extension Charges

Schedule J – System Capacity Charge

Schedule L – Drought Surcharge Rate Schedule for Water Service

Public Records Act Fee Schedule and District Publications Fees

Real Property Use Application Fees

Recreation Use Fees for Calendar Years 2020 and 2021

Regulations Section 12 – Non-registering and Unreadable Meters and Meter Protection

### Wastewater System

Schedule A – Rates for Treatment Service

Schedule B – Wet Weather Facilities Charge

Schedule C – Industrial Permit Fees

Schedule D – Other Fees

Schedule E – Testing Fees

Schedule F – Rates for Resource Recovery Material Treatment

Schedule G – Capacity Fees

Schedule H – Interceptor Connection Review, Coordination and Inspection Fee



**Schedule A**

**Rate Schedule for Water Service**

**FY20**





## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/18~~ 07/01/19

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### A. ONE MONTH BILLING

Bills for all metered services shall consist of:

FIRST – A WATER SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch	<del>\$24.63</del>	<u>\$26.23</u>
1 inch	<del>37.20</del>	<u>39.62</u>
1-1/2 inch	<del>68.65</del>	<u>73.11</u>
2 inch	<del>106.36</del>	<u>113.27</u>
3 inch	<del>206.96</del>	<u>220.41</u>
4 inch	<del>320.13</del>	<u>340.94</u>
6 inch	<del>634.43</del>	<u>675.67</u>
8 inch	<del>1,011.64</del>	<u>1,077.40</u>
10 inch	<del>1,451.69</del>	<u>1,546.05</u>
12 inch	<del>2,017.52</del>	<u>2,148.66</u>
14 inch	<del>2,583.30</del>	<u>2,751.21</u>
16 inch	<del>3,274.84</del>	<u>3,487.70</u>
18 inch	<del>3,966.36</del>	<u>4,224.17</u>

The service charge for a special type of meter or for a battery of meters installed on one service in lieu of one meter will be based on the size of a single standard meter of equivalent capacity as determined by the District.

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.



## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/18~~ 07/01/19

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on one month meter readings for all water delivered per unit of water (1 unit = 100 cu. ft. = 748 gallons):

<u>Potable Water Service</u>	WATER FLOW CHARGE PER <u>UNIT</u> <del>100 CU. FT.</del>	
Single Family Residential Accounts:		
For the first 172 gpd	<del>\$3.76</del>	<u>\$4.00</u>
For all water used in excess of 172 gpd, up to 393 gpd	<del>5.17</del>	<u>5.51</u>
For all water used in excess of 393 gpd	<del>6.83</del>	<u>7.27</u>
Multiple Family Residential Accounts:		
For all water used	<del>5.31</del>	<u>5.66</u>
All Other Water Use:		
For all water used	<del>5.29</del>	<u>5.63</u>

All individually metered multi-family dwelling units or individually metered mobile home residential units that receive District service shall be billed at the single family residential rate.

<u>Nonpotable/Recycled Water Service</u>	WATER FLOW CHARGE PER <u>UNIT</u> <del>100 CU. CT.</del>	
For all water used	<del>\$4.12</del>	<u>\$4.39</u>





## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/18~~ 07/01/19

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### B. TWO MONTH BILLING

Bills for all metered services shall consist of:

FIRST – A WATER SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch	<del>\$49.26</del>	<u>\$52.46</u>
1 inch	<del>74.40</del>	<u>79.24</u>
1-1/2 inch	<del>137.30</del>	<u>146.22</u>
2 inch	<del>212.72</del>	<u>226.54</u>
3 inch	<del>413.92</del>	<u>440.82</u>
4 inch	<del>640.26</del>	<u>681.88</u>
6 inch	<del>1,268.86</del>	<u>1,351.34</u>
8 inch	<del>2,023.28</del>	<u>2,154.80</u>
10 inch	<del>2,903.38</del>	<u>3,092.10</u>
12 inch	<del>4,035.04</del>	<u>4,297.32</u>
14 inch	<del>5,166.60</del>	<u>5,502.42</u>
16 inch	<del>6,549.68</del>	<u>6,975.40</u>
18 inch	<del>7,932.72</del>	<u>8,448.34</u>

The water service charge for a special type of meter or for a battery of meters installed on one service in lieu of one meter will be based on the size of a single standard meter of equivalent capacity as determined by the District.

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.



## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/18~~ 07/01/19

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on two month meter readings for all water delivered per unit of water (1 unit = 100 cu. ft. = 748 gallons):

<u>Potable Water Service</u>	WATER FLOW CHARGE PER <u>UNIT</u> <del>100 CU. FT.</del>	
Single Family Residential Accounts:		
For the first 172 gpd	<del>\$3.76</del>	<u>\$4.00</u>
For all water used in excess of 172 gpd, up to 393 gpd	<del>5.17</del>	<u>5.51</u>
For all water used in excess of 393 gpd	<del>6.83</del>	<u>7.27</u>
Multiple Family Residential Accounts:		
For all water used	<del>5.34</del>	<u>5.66</u>
All Other Water Use:		
For all water used	<del>5.29</del>	<u>5.63</u>

All individually metered multi-family dwelling units or individually metered mobile home residential units that receive District service shall be billed at the single family residential rate.

<u>Nonpotable/Recycled Water Service</u>	WATER FLOW CHARGE PER <u>UNIT</u> <del>100 CU. CT.</del>	
For all water used	<del>\$4.12</del>	<u>\$4.39</u>

### C. EXCEPTIONS TO TWO MONTH BILLING

Except as provided below, customer accounts shall be subject to bi-monthly meter reading and customer billing schedules

- Accounts for which the average monthly bill is estimated to exceed \$1,500; such accounts will be billed monthly.
- Accounts for which there are reasonable and justifiable customer requests for monthly billing.
- Accounts for which the average monthly bill is estimated to be between \$100 and \$1,500, and the customer service manager recommends monthly billing based on an evaluation of credit and/or collection problems.



## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/18~~ 07/01/19

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### D. PRIVATE FIRE SERVICES

Effective July 1, 2005, the rates for Private Fire Services shall consist of:

FIRST – A MONTHLY SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch	<del>\$13.11</del>	<u>\$13.96</u>
1 inch	<del>18.01</del>	<u>19.18</u>
1-1/2 inch	<del>30.20</del>	<u>32.16</u>
2 inch	<del>44.84</del>	<u>47.75</u>
3 inch	<del>83.92</del>	<u>89.37</u>
4 inch	<del>127.85</del>	<u>136.16</u>
6 inch	<del>249.92</del>	<u>266.16</u>
8 inch	<del>396.39</del>	<u>422.16</u>
10 inch	<del>567.27</del>	<u>604.14</u>
12 inch	<del>786.97</del>	<u>838.12</u>
14 inch	<del>1,006.69</del>	<u>1,072.12</u>
16 inch	<del>1,275.25</del>	<u>1,358.14</u>
18 inch	<del>1,543.78</del>	<u>1,644.13</u>

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on two-month meter readings for all water delivered per unit~~100 cu. ft.~~:

There shall be no charge for water through such services extinguishing accidental fires, but any water lost through leakage or used in violation of the District's Regulations shall be paid at the rate for general use and may be subject to a penalty as may be established by the District.



## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/18~~ 07/01/19

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### E. ELEVATION SURCHARGE

<del>Elevation Designator</del>	AMOUNT PER <u>UNIT</u> <del>100 CU.</del> <del>FT.</del>	
<u>Pressure Zone 1: Elevation Designator</u> 0 and 1	\$0.00	
<u>Pressure Zone 2: Elevation Designator</u> 2 through 5	<del>0.76</del>	<u>0.81</u>
<u>Pressure Zone 3: Elevation Designator</u> 6 and greater	<del>1.58</del>	<u>1.68</u>

The elevation surcharge is determined by the pressure zone in which the service connection is located. Pressure zones are identified by designations that include an elevation designator.

## **Schedule B**

### **Account Establishment Charge**

**FY20**







## SCHEDULE B – ACCOUNT ESTABLISHMENT CHARGE

EFFECTIVE ~~07/01/18~~ 07/01/19

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The charge for establishing a new account or the transfer of an account for a customer moving from one address to another is ~~\$56.00~~ \$57.00 with the following exceptions:

- Customers in the Customer Assistance Program shall be charged \$28.00.
- Landlords requiring temporary water service for a period not to exceed 60 days shall be charged \$28.00, with the balance of the account establishment charge billed for water service that exceeds 60 days.
- There will be no transfer fee to change the name of an account when the responsible party is a landlord who has signed an intervening water service agreement.
- There will be no transfer fee to change the name of an account when the same person or entity is to remain responsible.
- Upon completion of the on-line account establishment system, the charge for establishing a new account or the transfer of an account moving from one address to another on EBMUD's website over the Internet for a single family residence customer is ~~\$40.00~~ \$41.00.



**Schedule C**

**Charges for Special Services**

**FY20**





## SCHEDULE C – CHARGES FOR SPECIAL SERVICES

EFFECTIVE ~~07/01/18~~ 07/01/19

### A. METER TESTING

Charges for meter testing will be in accordance with the following schedule:

<u>SIZE OF METER</u>	<u>TESTING CHARGES</u>
5/8", 3/4", and 1"	<del>\$63.00</del> <u>\$65.00</u>
1-1/2" and 2"	<del>\$63.00</del> <u>\$65.00</u> On Site <del>\$141.00</del> <u>\$145.00</u> Pull/Test
3" and larger	<del>\$282.00</del> <u>\$291.00</u> On Site Actual Cost Pull and Test

### B. SERVICE INTERRUPTION

The charge for shutting off water service due to non-payment of a water bill is ~~\$48.00~~ \$49.00

The charge for restoring service after payment has been received during regular office hours is ~~\$48.00~~ \$49.00

The charge for restoring service between 5 p.m. and 8 a.m. or on Saturday, Sunday or on a holiday is ~~\$66.00~~ \$67.00

An additional charge to lock or plug the meter due to non-payment or unauthorized water use is

S-Lock	<del>\$61.00</del> <u>\$62.00</u>
Plug	<del>\$414.00</del> <u>\$422.00</u>

A service trip charge of ~~\$48.00~~ \$49.00 shall be paid in the event of the following occurrences in the field: 1) ~~payment collection~~; 2) payment extension; and ~~3~~ 2) any additional field stops to shut off service beyond the initial service interruption, including EBMUD locking the meter if the customer self-restores water service prior to making payment. (See Section M.)

### C. RETURNED PAYMENT CHARGE

A charge of \$26.00 shall be paid for each check or electronic transaction received as payment to the District that is returned unpaid from a financial institution.

### D. PROCESSING FEES FOR DELINQUENT CHARGE COLLECTION THROUGH LIENS AND PROPERTY TAX BILLS ON MULTI-FAMILY RESIDENTIAL ACCOUNTS

For multi-family residential accounts, the District may place liens on parcels with unpaid charges and collect unpaid amounts on parcels' property tax bills. Multi-family residential accounts are any residential accounts where a water meter serves two or more dwelling units.



## SCHEDULE C – CHARGES FOR SPECIAL SERVICES

EFFECTIVE ~~07/01/18~~ 07/01/19

- 
- |  |  |
|--|--|
| 1. Lien Filing Fee   | \$ <del>110</del> <u>141</u> per lien <u>(in Alameda County)</u><br><br><u>\$117 per lien (in Contra Costa County)</u>   |
| 2. Lien Removal Fee  | \$ <del>108</del> <u>103</u> (in Alameda County) and<br>\$ <del>104</del> <u>94</u> (in Contra Costa County) for first<br>lien removed<br><br>\$ <del>50</del> <u>51</u> (in Alameda County) and \$ <del>43</del> <u>42</u> (in<br>Contra Costa County) for each additional<br>lien removed at the same time |
| 3. Property Tax Transfer Fee Unpaid<br>Charges with Liens Recorded | \$21 plus county auditor's fee (1.7% of<br>collected amount for Alameda County; \$3<br>per parcel for Contra Costa County)   |

### E. PROHIBITED WATER USE CHARGE

A charge of \$~~48.00~~49.00 shall be paid to cover the monitoring costs incurred by the District if, after written notification, excessive or prohibited water use is not curtailed.

### F. FLOW-RESTRICTOR INSTALLATION

The charge for District installation of a flow-restricting device on any service that continues excessive water use, after written notification, will be in accordance with the following schedule:

1. On services two-inches and smaller –

5/8" and 3/4"	\$ <del>119.00</del> <u>122.00</u>
1"	\$ <del>119.00</del> <u>122.00</u>
1-1/2"	\$ <del>256.00</del> <u>262.00</u>
2"	\$ <del>256.00</del> <u>262.00</u>
2. All others –

The charges for installing flow-restricting devices on water services, other than those in the above schedule, shall be the actual cost of installing the device, as determined by the District, including engineering, equipment, material, labor and related overhead expenses.

### G. NOTICE OF PROHIBITED WATER USE AND FLOW-RESTRICTOR CHARGES

For the purposes of Sections E and F above, written notification shall:





## SCHEDULE C – CHARGES FOR SPECIAL SERVICES

EFFECTIVE ~~07/01/18~~ 07/01/19

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1. Specify the date by which excessive or prohibited water use must be curtailed to avoid further enforcement action; and
2. Be sent by certified mail (return receipt requested) or by other written means which would be sufficient for obtaining personal service in a legal proceeding.

### H. RESCINDED 12/10/96

### I. BACKFLOW DEVICE ANNUAL CERTIFICATION CHARGE

Where it is probable that a pollutant, contaminant, system or plumbing hazard may be created by a water user, or where the water system is unstable and cross-connections may be installed or reinstalled, an approved backflow prevention device of the proper type is required for all premises except for conforming single-family premises at the customer's expense. See Section 26 of the District's Regulations Governing Water Service.

1. The charge for administering the Backflow Program Certification for all specified accounts (annually) ~~\$56.00~~ 57.00
2. The charge for District staff to conduct a *Change of Responsible Party* or *Change of Use Survey* or to respond to a commercial customer's request for a backflow/cross connection survey, an initial or follow-up backflow inspection ~~\$128.00~~ 131.00/hr.
3. The charge for backflow testers to be placed on the District's list of certified testers ~~\$156.00~~ 159.00

### J. BACKFLOW DEVICE VIOLATION

For those customers where the service has been terminated for failure to meet the District's Backflow Program requirements, a charge will be made to cover the District's costs pursuant to the termination and restoration of service ~~\$496.00~~ 506.00

### K. LATE PAYMENT PENALTY AND INTEREST

For those customers with outstanding overdue balances exceeding \$10 at billing, a charge equivalent to 1.5% of the overdue balance (minimum charge \$1) will be made to recover foregone interest on District money, and the District's costs to process overdue accounts. Customers in the Customer Assistance Program shall be exempt from the late payment penalty and interest.

### L. PROCESSING FEE FOR INTERVENING WATER SERVICE AGREEMENT

The charge for the District to process an intervening water service agreement for a participating landlord in the District's automated landlord sign-on service is ~~\$58.00~~ 59.00

Requests to modify intervening water service agreement property account information must be submitted in writing and can be dropped off, mailed or faxed to a District business office.



## SCHEDULE C – CHARGES FOR SPECIAL SERVICES

EFFECTIVE ~~07/01/18~~ 07/01/19

The charge for each written request to modify the original intervening water service agreement by adding to or deleting property account information from the original agreement is ~~\$58.00~~ \$59.00

### M. SERVICE TRIP CHARGE

The charge for District staff to perform special services for customers is ~~\$48.00~~ \$49.00

The charge shall be applied for, but is not limited to the following:

- ~~1. Payment collection in the field;~~
- ~~2.1.~~ 1. Payment extension in the field;
- ~~3.2.~~ 2. Additional field stops beyond the initial service interruption to shut off service due to non-payment, including a field stop to lock the meter if the customer self-restores water service prior to making payment;
- ~~4.3.~~ 3. Follow-up site visits to customers who have not complied after the District's notification to correct an obstructed meter condition or to remove unauthorized devices or equipment attached to District property in the meter box; and
- ~~5.4.~~ 4. Field inspections conducted at the customer's request.

### N. PUBLIC HYDRANT METER ACCOUNT ESTABLISHMENT CHARGES

Customers can request a 3-inch hydrant meter that can be hooked up to a public fire hydrant to measure water use at a property site. Customers are required to: 1) provide hydrant meter readings every two months, within two weeks of the meter read due date; 2) return hydrant meter equipment within one month following a meter use period; and 3) renew the hydrant meter permit and exchange the hydrant meter equipment within 11 months from the date of issuance, if continued use is desired.

The charge to establish water service for a hydrant meter is ~~\$115.00~~ \$118.00

The charge to renew a hydrant meter account at the end of a 12-month period is ~~\$115.00~~ \$118.00

If a field stop is required to establish a new account, a ~~\$230~~ \$235 site visit charge shall be paid in addition to the ~~\$115~~ \$118 account establishment charge. (See Section O.)

### O. PUBLIC HYDRANT METER ACCOUNT SITE VISIT CHARGE

The charge for a Field Services Representative to conduct a hydrant meter site visit to perform special services for customers is ~~\$230.00~~ \$235.00

The charge shall be applied for, but is not limited to the following:

1. Reading hydrant meters for which the two-month reading was not submitted by the customer;
2. Retrieving hydrant meter equipment from a customer site;
3. Delivering hydrant meter equipment to a customer; and
4. Establishing or renewing a hydrant meter account in the field.

**Schedule D**

**Water Service Installation Charges**

**FY20**





## SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/18~~ 07/01/19

### A. INSTALLING A SERVICE

The charge for installing a water service, other than a private fire service, will be in accordance with the following schedule:

#### 1. FOUR INCHES AND SMALLER

##### a. Regular Services (1 meter per lateral)

LATERAL SIZE	INSTALLED IN PAVED CONDITIONS	INSTALLED IN UNPAVED CONDITIONS
1" Lateral with 1" and under meter	<del>\$7,100</del> <u>8,140</u>	<del>\$2,336</del> <u>3,594</u>
1-1/2" Lateral with 1- 1/2" and under meter	<del>9,650</del> <u>12,247</u>	<del>5,126</del> <u>6,958</u>
2" Lateral with 2" and under meter	<del>9,650</del> <u>12,247</u>	<del>5,126</del> <u>6,958</u>
3" Lateral with 3" and under meter	<del>28,748</del> <u>31,534</u>	<del>23,818</del> <u>23,922</u>
4" Lateral with 4" and under meter	<del>28,748</del> <u>31,534</u>	<del>23,818</del> <u>23,922</u>

Cost to install services with 6" laterals and larger will be calculated on an actual cost basis.

##### b. Branch Services (2 or more meters per lateral)

METER SIZE	# OF METERS	INSTALLED IN PAVED CONDITIONS	INSTALLED IN UNPAVED CONDITIONS
5/8" Meters	2	<del>\$7,534</del> <u>8,559</u>	<del>\$3,965</del> <u>4,598</u>
	3	<del>9,437</del> <u>12,170</u>	<del>5,313</del> <u>7,054</u>
	4	<del>9,746</del> <u>12,526</u>	<del>5,623</del> <u>7,400</u>
	5	<del>10,670</del> <u>13,189</u>	<del>6,145</del> <u>7,851</u>
	6	<del>10,978</del> <u>13,544</u>	<del>6,454</del> <u>8,196</u>
	7	<del>11,287</del> <u>13,900</u>	<del>6,762</del> <u>8,541</u>
	8	<del>11,595</del> <u>14,255</u>	<del>7,071</del> <u>8,886</u>
1" Meters	2	<del>9,274</del> <u>11,916</u>	<del>5,152</del> <u>6,783</u>
	3	<del>9,659</del> <u>12,309</u>	<del>5,536</del> <u>7,045</u>
	4	<del>10,041</del> <u>12,701</u>	<del>5,917</del> <u>7,426</u>

<sup>1</sup>Requires steel pipes



## SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/18~~ 07/01/19

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### c. Adjustment for Applicant Assisted Service Installations

Applicants requesting installation of at least 15 service laterals may choose to provide their own trenching and backfilling and be eligible to receive a refund of up to ~~\$517.00~~ \$532.00 per service lateral installed provided that the applicant:

- (i) pays the appropriate charges for each service as specified in sections (a) or (b) above.
- (ii) clears the construction site of obstructing materials and equipment.
- (iii) excavates a minimum of 15 service laterals ahead of District crews.
- (iv) hauls sand and select backfill to the construction site for use by District crews in supporting the service lateral and for applicant backfilling of trenches.
- (v) backfills and compacts the trenches after District crews have installed and properly secured the service lateral.
- (vi) reimburses the District for (1) unproductive crew standby due to applicant's failure to prepare the site or excavate trenches in advance; (2) District costs to repair damage done by applicant's trenching operation.

### 2. ALL OTHERS

The charge for installing all water services other than those in the above schedule shall be the actual cost of installing the service, as determined by the District, including engineering, equipment, material, labor and related overhead expenses.

### B. COST OF INCREASING METER SIZE (Up to available capacity on existing lateral)

<u>1" Tap and Lateral</u>	(Additional charge of \$600 if concrete replacement required) <del>\$870</del> <u>1,001</u>
<u>1-1/2" Tap and Lateral</u>	(Additional charge of \$600 if concrete replacement required)
Up to 1-1/2"	<del>\$870</del> <u>1,001</u>
<u>2" Tap and Lateral</u>	(Additional charge of \$600 if concrete replacement required)
Up to 2"	<del>\$1,172</del> <u>1,207</u>
<u>4" Tap and Lateral</u>	(Additional charge of \$600 if concrete replacement required)
Up to 2"	<del>\$1,172</del> <u>1,207</u>
<u>4" Tap and Lateral</u>	(Additional charge of \$600 if concrete replacement required)
Up to 4"	<del>\$6,221</del> <u>6,453</u>





## SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/18~~ 07/01/19

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### C. COST OF REDUCING METER SIZE (Additional charge of \$600 if concrete replacement required)

1", 1-1/2" and  
2" Laterals to smaller meter ~~\$853~~ 916

3" and 4"  
Laterals to smaller meter ~~2,503~~ 2,816

### D. RELOCATING AN EXISTING SERVICE

1. To relocate an existing service perpendicular to the curb line or a distance not exceeding five feet parallel to the curb line, a charge will be ~~\$2,292~~ 2,342.
2. To relocate an existing service a distance exceeding five feet parallel to the curb line, a charge will be made in accordance with Section A – Installing a Service plus the cost of eliminating old service connection.

### E. RESETTling OR REPLACING A METER

There will be a charge equivalent to 5% of the water service installation charge for resetting a meter on an existing service connection.

There will be a charge equivalent to 5% of the water service installation charge for replacing a meter when applicants lose or damage meters when constructing new developments.

### F. CONVERSION OF INDIVIDUAL SERVICE TO BRANCH SERVICE

(Multi-metering, when feasible)

Branch Conversion ~~\$2,674~~ 2,745 for two meter conversion, ~~\$381~~ 397 for each additional meter  
(Additional charge of \$600 if concrete replacement is required)

### G. SERVICE ELIMINATIONS

3/4" to 2" ~~\$1,739~~ 2,053 (Additional charge of \$600 if concrete replacement required)

3" to 12" ~~3,879~~ 3,980 (Additional charge of \$600 if concrete replacement required)

### H. INSTALLATION OR OTHER WORK UNDER UNUSUAL CONDITIONS

The above charges apply to installation charges for water services four inches and smaller except where there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the charge will be based on the District's actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.



## **Schedule E**

# **Private Fire Service Installation Charges**

**FY20**





## SCHEDULE E – PRIVATE FIRE SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/18~~ 07/01/19

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### A. INSTALLING A PRIVATE FIRE SERVICE

The charge for installing a private fire service will be in accordance with the following schedule:

SIZE	INSTALLED IN PAVED CONDITIONS	INSTALLED IN UNPAVED CONDITIONS
4"	\$ <del>22,536</del> <u>25,242</u>	\$ <del>17,844</del> <u>17,649</u>
6"	<del>23,786</del> <u>26,506</u>	<del>19,043</del> <u>18,907</u>
8"	<del>29,699</del> <u>29,344</u>	<del>19,043</del> <u>18,907</u>

Cost to install 2" and smaller is shown in Schedule D – Water Service Installation Charges, Section A.1 – Installing a Service, Four Inches and Smaller.

Cost to install 10" and larger will be calculated on an actual cost basis.

### B. INSTALLATION UNDER UNUSUAL CONDITIONS

The above charges apply to all installation charges for private fire services except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the charge will be based on the District's actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.





## **Schedule F**

# **Public Fire Hydrant Installation Charges**

**FY20**





## SCHEDULE F – PUBLIC FIRE HYDRANT INSTALLATION CHARGES

EFFECTIVE ~~07/01/18~~ 07/01/19

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The following charges will be made for the installation, removal or relocation of a fire hydrant.

### A. HYDRANT INSTALLATION BY THE DISTRICT

The charge for installation of a fire hydrant by the District on an existing main or on/with new mains is ~~\$19,034~~ \$24,030 in pavement and ~~\$12,722~~ \$13,879 in dirt.

For hydrants installed by applicant on/with new mains installed by the Applicant see Section B below.

### B. HYDRANT INSTALLATIONS BY APPLICANT ON APPLICANT-INSTALLED MAIN EXTENSIONS

1. Basic charge for materials and handling for 6-inch fire hydrant ~~\$3,731.00~~ \$3,918
2. Material charge for services laterals ~~\$21.00~~ \$22.00 per foot

NOTE: Applicants will not be permitted to install a fire hydrant on an existing main.

### C. HYDRANT REMOVAL

1. The charge to remove a hydrant located in concrete sidewalk ~~\$3,879.00~~ \$3,980
2. The charge to remove a hydrant located in dirt ~~\$2,395.00~~ \$2,457

### D. RELOCATION OF A FIRE HYDRANT

The charge for the relocation of a hydrant will be the charge for the hydrant removal (Section C) plus the charge for the installation of a new hydrant (Section A).

### E. SETBACK/OFFSET OF A FIRE HYDRANT

Where the relocation of a fire hydrant does not require a new connection to the main, the charge is \$9,303. There is an additional charge of \$600 for concrete replacement.

### F. REPLACEMENT OF A HYDRANT BODY

To replace an existing hydrant with a MODEL-64 hydrant body or equivalent on a wet barrel, above ground shutoff type hydrant, the replacement charge is ~~\$1,761.00~~ \$1,834

### G. INSTALLATION UNDER UNUSUAL CONDITIONS

The above charges apply to all installation charges for fire hydrant installations except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the charge will be based on the District's actual cost of all engineering, material, equipment, labor and related expenses incidental to the installation.



## **Schedule G**

### **Water Main Extension Charges**

**FY20**







## SCHEDULE G – WATER MAIN EXTENSION CHARGES

EFFECTIVE ~~07/01/18~~ 07/01/19

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### A. DISTRICT-INSTALLED MAINS

The charge for District-installed main extensions up to 1,000 feet shall be based on the standard charges as specified below.

1. Charge for engineering, inspection, pipeline materials and appurtenances, and installation of the required mains by the District in dirt streets and in paved streets, excluding fire hydrants and water service connections (which are covered by Schedules D, E, and F) consists of:

- a. Basic installation charge of ~~\$4,019.00~~ 4.107  
plus,

Linear foot charge, for combined length of main extension and fire hydrant lateral of 0 to 1,000 feet:

In dirt streets

2-inch PVC pipe	<del>\$141.00</del> <u>174.00</u> per foot
2-inch Copper pipe	<del>164.00</del> <u>203.00</u> per foot
6-inch/8-inch PVC or HDPE pipe	<del>217.00</del> <u>272.00</u> per foot
6-inch/8-inch Steel pipe	<del>255.00</del> <u>315.00</u> per foot
12-inch HDPE pipe	<del>279.00</del> <u>370.00</u> per foot
12-inch Steel pipe	<del>324.00</del> <u>416.00</u> per foot

In paved streets

2-inch PVC pipe	<del>\$231.00</del> <u>286.00</u> per foot
2-inch Copper pipe	<del>254.00</del> <u>314.00</u> per foot
6-inch/8-inch PVC or HDPE pipe	<del>311.00</del> <u>380.00</u> per foot
6-inch/8-inch Steel pipe	<del>344.00</del> <u>421.00</u> per foot
12-inch HDPE pipe	<del>369.00</del> <u>477.00</u> per foot
12-inch Steel pipe	<del>414.00</del> <u>523.00</u> per foot

- b. The above charges apply to all District-installed mains except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including hydraulic analysis, property rights evaluation, site conditions or contaminated soil. In such cases, the additional charge will be based on the District's actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.

### B. APPLICANT-INSTALLED MAINS

The charge for Applicant-installed main extensions over 1,000 feet shall be based on the following standard charges:

1. Charge for engineering, inspection, and certain pipeline materials, designated below for the installation of the required water mains by the applicant, excluding fire hydrants and water service connections (which are covered by Schedules D, E, and F) consists of:



## SCHEDULE G – WATER MAIN EXTENSION CHARGES

EFFECTIVE ~~07/01/18~~ 07/01/19

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- a. Basic installation charge of ~~\$4,019.00~~ 4,107 plus

Linear foot charge of:

- |                                  |  |
|----------------------------------|--|
| 6-inch/8-inch diameter pipe      | <del>\$41.00</del> <u>49.00</u> per foot |
| 12-inch diameter pipe            | <del>\$47.00</del> <u>57.00</u> per foot |
| 16-inch and larger diameter pipe | See B, 3 below                           |

- b. The charge to the applicant for District-supplied pipe and fittings (which include valves, valve pot covers, blowoffs, and minor appurtenances as identified by District-furnished drawings and specifications) will be the District's cost for these materials including tax and shipping.
- c. The above charges apply to all Applicant-installed mains except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the additional charge will be based on the District's actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.

In all cases the District will supply valves, valve pot covers, blowoffs, and minor appurtenances as identified by District-furnished drawings and specifications.

2. Credits (where applicable) when pipe to be installed by the applicant is required by the District to be larger than the pipe size needed to serve the applicant or when applicant installs District improvements in conjunction with applicant-installed main extensions will be based on a District engineering cost estimate.

3. Charges for Pipe Greater than 12-Inches

Charges for Applicant-installed mains greater than 12-inches will be based on a District engineering cost estimate.

**Schedule J**

**System Capacity Charge**

**FY20**





## SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/13/18~~ 07/01/19

### A. SCC FOR STANDARD SERVICE<sup>1</sup>

The SCC is calculated based on the applicant's projected average annual demand.

1. Non-Residential Service Connections SCC<sup>2</sup> for meters up to 1-1/2 inches (dollars per connection)

METER SIZE (INCHES)	REGION <sup>3</sup>		
	1	2	3
5/8	\$25,850	\$46,590	\$43,140
3/4	38,780	69,890	64,710
1	64,760	116,720	108,070
1-1/2	129,520	233,440	216,140

The District reserves the right to request additional information, including specific water use information from the applicant. The District reserves the right to determine the appropriate meter size to serve the applicant's projected demand needs and assess the SCC using this Section (A)(1). If the District determines that the applicant's projected average annual demand exceeds 3,200 gallons per day (gpd) for non-residential service connections or that a meter larger than 1-1/2 inches is required to meet the applicant's projected demand needs, this Section (A)(1) no longer applies. For projected average annual demand exceeding 3,200 gpd for non-residential service connections and/or meters larger than 1-1/2 inches, Section(A)(3) shall be used to determine the SCC based on the applicant's projected average annual demand and the unit charges set forth therein. The District's decision regarding the applicable SCC shall be final.

For service connections with ~~larger~~ meters larger than 1-1/2 inch see Section 3 below.

2. Single Family Service Connections ~~(SCC)~~<sup>22</sup> with typical use demand patterns that can be served by meters up to 1-1/2 inches (dollars per connection)

METER SIZE (INCHES)	REGION <sup>3</sup>		
	1	2	3
3/4	\$18,100	\$31,350	\$40,040
1	30,230	52,350	66,870
1-1/2	60,460	104,700	133,740

The District reserves the right to request additional information, including specific water use information, from the applicant. The District reserves the right to determine the appropriate meter size to serve the applicants projected demand needs and



## SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/13/18~~ 07/01/19

assess the SCC using this Section (A)(2).

For service connections with larger meters or greater than 1,940 gpd projected average annual demand for single family residential service. Section(A)(3) shall be used to determine the SCC based on the applicant's projected average annual demand and the unit charges set forth therein. The District's decision regarding the applicable SCC shall be final. ~~see Section 3 below.~~

<sup>1</sup>This charge covers the cost of System-wide Facilities Buy-in, Regional Facilities Buy-in and Future Water Supply.

<sup>2</sup>The SCC charged to the applicant will be based on the water meter size required to meet the indoor needs (excluding private fire service needs) and outdoor watering needs of the premises as determined solely by the District based on the plumbing code, the District's review, and water industry standards. The meter(s) that is installed may be larger than the meter size that is used to determine ~~charged in~~ the applicable SCC fee if the service is combined with a private fire service or if a separate irrigation meter is required (See Sections D – Combined Standard and Fire Service and I – Required Separate Irrigation Meter for Single Family Premises).

### <sup>3</sup>REGION GENERAL DESCRIPTION

- 1 Central Area (gravity zones West-of-Hills)  
El Sobrante and North (pumped zones)
- 2 South of El Sobrante to vicinity of Highway 24 (pumped zone)  
South from vicinity of Highway 24 (pumped zones)  
Castro Valley Area (pumped zones)  
North Oakland Hill Area (pumped zones, formerly 4A)
- 3 Orinda-Moraga-Lafayette Area (pumped zones)  
San Ramon Valley and Walnut Creek (pumped and gravity zones)

### 3. SCC for Larger Meters

The SCC for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the same unit charge and criteria as apply to the SCC for smaller meters. The SCC will be calculated based on the unit charges for each of the four components listed below:

Component	Unit Charge (\$/100 gpd)
Post-2000 (Add'l Regions 3C & 3D only)	SCC Region Specific
Regional Facilities Buy-in	SCC Region Specific
System-wide Facilities Buy-in	\$2,185
Future Water Supply <sup>4</sup>	2,099



## SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/13/18~~ 07/01/19

The unit charges for the components that are specific to a SCC Region are:

Region	Post-2000 Component	Regional Facilities Buy-In Component
1	n/a	\$2,179
2	n/a	4,424
3	n/a	2,619
3C	\$7,099	1,965
3D	7,099	1,965

In no instance will the SCC for a meter larger than 1-1/2 inches be less than the 1-1/2 inch price from the appropriate Section 1 or 2, above.

The SCC will be determined by multiplying the sum of the unit charge of the four components by the water use information furnished by the applicant, rounded to three significant places.

If the District has determined, based on water use information furnished by the applicant, that a meter size larger than 1-1/2 inches is required to meet the applicant's projected demand needs or if the projected average annual demand exceeds 3,200 gpd (non-residential) or 1,940 gpd (single family residential) ~~a meter larger than 1-1/2 inches is appropriate~~, the SCC shall be calculated pursuant to this subdivision ~~shall apply~~ irrespective of the arrangement of water metering or meter size at the premises.

<sup>4</sup>The Future Water Supply component for Region 3C is based on 1993 agreement (see Section B1).

#### 4. SCC for Standard Service to Multi-Family Premises

The System Capacity Charge for water service at multi-family premises shall be as listed below. For purposes of this Schedule J, "multi-family premises" shall mean premises with two or more attached or separate residential dwelling units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service.

Multi-Family Premises Dollars per Dwelling Unit (DU)			
REGION <sup>5</sup>			
	1	2	3
For each Dwelling Unit	\$10,530	\$14,630	\$13,740

The above SCC shall apply regardless of the arrangement of water metering or meter size at the premises; however, the District may limit the size and number of service connections to a combined capacity appropriate to the anticipated water use at the premises. No additional SCC shall be applicable for separate meters installed to provide irrigation for landscaping on the premises in the immediate area contiguous to the





## SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

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dwelling unit structures, provided such landscaped area is to be used exclusively by the residents. All other rates and charges shall be based on actual number and size of meters and does not apply to the requirements listed below.

An SCC shall be applicable for separate meters installed to serve other water uses in the vicinity of the multi-family premises, such as irrigation of open space areas, parks, roadway medians, golf courses, community clubhouse and recreational facilities, and areas designated for public use. The SCC shall be based on meter size as provided under A.1 above. If these other water uses are included in the water service connection to the multi-family premises, the District shall, for purposes of determining the applicable SCC, determine the equivalent meter size for these uses based on plumbing code and water industry standards, as if there were a separate service connection.

<sup>5</sup>Same regions as described in A.2.

### B. SEPARATE SCC FOR STANDARD SERVICE FOR ADDITIONAL REGIONS<sup>6</sup>

The System Capacity Charge for non-residential and single family residential water service at premises other than multi-family premises shall be as follows (dollars per connection):

1. Non-residential water service at premises other than multi-family premises shall be as follows (dollars per connections)

METER SIZE (INCHES)	ADDITIONAL REGION <sup>7</sup>	
	3C <sup>8</sup>	3-D
5/8	n/a	\$103,450
3/4	n/a	155,180
1	n/a	259,150
1-1/2	n/a	518,300

For service connections with larger meters see Section 3 below.

2. Single-family service connections shall be as follows (dollars per connections)

METER SIZE (INCHES)	ADDITIONAL REGION <sup>7</sup>	
	3C <sup>8</sup>	3-D
3/4	\$91,930	\$103,450
1	153,520	172,760
1-1/2	307,040	345,520

For service connections with larger meters see Section 3 below.



## SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

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<sup>6</sup>This charge covers the cost of System-wide Facilities Buy-In, Regional Facilities Buy-In and Future Water Supply. The Additional Regions are low-density, residential in nature. It is not anticipated that meters larger than 3/4-inch (excluding fire flow requirements) will be installed in these Regions.

<sup>7</sup> ADDITIONAL REGION	GENERAL DESCRIPTION
3-C	South of Norris Canyon Road (pumped zones)
3-D	South of Norris Canyon Road outside Wiedemann Ranch (pumped zone)

<sup>8</sup>The Future Water Supply component of the SCC for Region 3C is set by the July 20, 1993 Wiedemann Agreement, indexed to the U.S. City Average of the Consumer Price Index and used by EBMUD to fund conservation programs. The total Future Water Supply component of the SCC for the common areas in Region 3C shall be paid as a condition for the issuance of the first water meter for the common area. The SCC for non-residential services (e.g., common area irrigation) shall be uniquely calculated in accordance with the Wiedemann Agreement.

### 3. SCC for Larger Meters

The SCC for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the same cost components and criteria as apply to the SCC for smaller meters. (See Section A.3)

### 4. Separate SCC for Standard Service to Multi-Family Premises

The SCC for water service at multi-family premises shall be as listed below. For purposes of this Schedule J, “multi-family premises” shall mean premises with two or more attached or separate residential dwelling units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service.

Multi-Family Premises		
Dollars per Dwelling Unit		
ADDITIONAL REGIONS <sup>9</sup>		
	3-C	3-D
For each Dwelling Unit	\$35,470	\$36,310

The above SCC shall apply regardless of the arrangement of water metering or meter size at the premises; however, the District may limit the size and number of service connections to a combined capacity appropriate to the anticipated water use at the premises. No additional SCC shall be applicable for separate meters installed to provide irrigation for landscaping on the premises in the immediate area contiguous to the dwelling unit structures, provided such landscaped area is to be used exclusively by the residents. All other rates and charges shall be based on actual number and size of meters and do not apply to the requirements listed below.

An SCC shall be applicable for separate meters installed to serve other water uses in the vicinity of the multi-family premises, such as irrigation of open space areas, parks, roadway medians, golf courses, community clubhouse and recreational facilities, and



## SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/13/18~~ 07/01/19

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areas designated for public use. The SCC shall be based on meter size as provided under B.1 above. If these other water uses are included in the water service connection to the multi-family premises, the District shall, for purposes of determining the applicable SCC, determine the equivalent meter size for these uses based on plumbing code and water industry standards, as if there were a separate service connection.

<sup>9</sup>Same regions as described in B.1.

### **C. LOW-PRESSURE SERVICE**

Where a larger meter is installed because of low-pressure conditions, the applicable System Capacity Charge shall be determined on the basis of the size of the meter which would be required for a standard service as determined by the District based on plumbing code and water industry standards. All other rates and charges shall be based on actual meter size.

### **D. COMBINATION STANDARD AND FIRE SERVICE**

Where a meter is installed to provide both standard service and a supply to a private fire protection system, at other than multi-family premises, the applicable System Capacity Charge shall be based on the meter size required for standard service exclusive of the capacity for supplying the fire protection system as determined by the District based on plumbing code, fire protection code and water industry standards. The installation charges shown in Schedule D and all other rates and charges pertaining to the service shall be based on the actual size of the meter that is installed.

### **E. FIRE SERVICES AND STANDBY SERVICES**

For fire services and standby services (additional service connections for security of supply), there shall be no System Capacity Charges.

### **F. ADDITIONAL WATER USE ON PREMISES RECEIVING SERVICE**

The System Capacity Charge applicable to enlargement of an existing service at other than multi-family premises shall be based on the difference in SCC for the new service size and the existing service size.

If additional dwelling units are constructed on premises subsequent to the installation of service and payment of an SCC under B.1, then the SCC applicable to each additional dwelling unit shall be immediately due and payable.

### **G. CREDIT FOR EXISTING SERVICES**

Where one or more new services will replace one or more existing or prior services to a premises where an SCC was paid to initiate the water service, a credit will be given toward the new SCC based on the customer classification, meter size or water use information that was used to calculate the initial SCC payment (see Section A – SCC for Standard Service). For instances where the existing or prior services were installed prior to 1983 and no SCC was paid, the SCC credit for meter sizes under 2" will be based on Sections A.1 and A.2 –



## SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/13/18~~ 07/01/19

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SCC for Standard Service. For existing or prior services with meter sizes 2" and greater where no SCC was paid, the annual average of the past ten years of water consumption will be used to determine the SCC credit, but in no instance will the credit be less than that of a 1.5" meter size for the customer classification listed in Sections A.1 and A.2 – SCC for Standard Service. No SCC credit will be given unless prior service to the premises is verified. If the SCC is paid with the service connection to be completed by meter installation at a later date, and existing service(s) are to remain in service until that time, the applicable credit for the existing service(s) will be in the form of a refund when the existing services are removed. The SCC credit cannot be applied to a standby meter, fire service meter, or in the case of a combination standard and fire service meter, the portion of the meter oversized for the private fire protection system. Where the initial SCC payment was made under Schedule J Section I – Required Separate Irrigation Meter for Single Family Premises, the SCC credit cannot be applied to the separate irrigation meter without a SCC credit on the residential meter. The SCC credit for an existing service can only be applied to the premises where the existing service is located. "Premises" is defined in Section 1 of the District's Regulations Governing Water Service.

For a common area meters installed under the July 20, 1993 Wiedemann Agreement, credit toward a new SCC for these meters will be based on the actual SCC payment for each meter installed, not based on the size of the existing meter.

### **H. TEMPORARY CONSTRUCTION SERVICE**

A System Capacity Charge paid on a temporary construction service will be refunded if said service is removed within a 1-year period after installation.

### **I. REQUIRED SEPARATE IRRIGATION METER FOR SINGLE FAMILY PREMISES**

If an irrigation meter is required for a single-family premises because the landscape exceeds the threshold for a dedicated irrigation meter in Section 31 of the Regulations, two meters will be installed – one for the indoor and private fire service (if applicable) needs of the building and a separate meter dedicated for irrigation. One single-family premises SCC shall be applicable based on the hydraulic capacity needed to serve the irrigation and indoor needs. The hydraulic capacity of the installed meter or meters will be equal to or exceed the hydraulic of the meter size that was charged in the SCC fee. The installation charges shown in Schedule D and all other rates and charges pertaining to the service(s) based on the actual size of the meter(s) that are installed shall apply.



## SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/13/18~~ 07/01/19

### J. NONPOTABLE WATER SERVICE

#### 1. Nonpotable Water Service Connections (dollars per connection)

METER SIZE (INCHES)	REGION		
	1	2	3
5/8	\$8,400	\$11,230	\$13,120
3/4	12,590	16,840	19,680
1	21,030	28,130	32,860
1-1/2	42,060	56,260	65,720

All SCC for nonpotable water service connections with meters larger than 1-1/2 inches shall be determined by applying the Future Water Supply Component unit charge to the defined projected water demand approved by the District. The SCC will not be less than the 1-1/2 inch meter charge from Section J.1 above.

### K. DUAL STANDARD SERVICES

An SCC shall be applicable for separate meters installed to provide dual (potable and nonpotable) standard service, based on the meter size(s) for each service.

### L. ADJUSTMENT OF SCC FOR WATER-CONSERVING LANDSCAPING ON PUBLICLY OWNED PROPERTY

To further encourage water conservation, the SCC for a water service connection exclusively for irrigation of landscaping on property owned by a public agency may be reduced or not required based on long-term water service needs after an initial planting establishment period of not more than three years (the "initial period"); provided that (1) the landscape plan incorporates drought-tolerant and other low-water-use planting materials on a major part of the landscaped area, and (2) the long-term water need would result in replacement of the initial water meter with a smaller meter or water service would be discontinued and removed at the end of the initial period, as solely determined by the District.

A public agency applying for water service under such conditions shall submit a written request to the District prior to the time of payment of the SCC. The request shall set forth in detail the facts supporting an adjustment of the SCC, shall include information and plans clearly describing the planting materials and irrigation system, and shall include data and calculations clearly demonstrating the estimated initial and long-term water needs.

If the District determines that the SCC can be based on a smaller meter or discontinuation of service after the initial period, the public agency shall enter into a water service agreement which provided for (1) payment of the reduced SCC prior to installation of service; (2) verification of the long-term need at the end of the period; and (3) payment of the additional SCC required if the initial meter is not to be replaced, or the replacement meter is larger than



## SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/13/18~~ 07/01/19

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initially determined, or water service is not discontinued and removed. If additional SCC payment is required, it shall be based on the charges in effect at the time of initial SCC payment, and shall be due and payable within 30 days of written notice from the District. The agreement shall be binding upon all subsequent owners of the property and shall be recorded.

Installation charges for the service connection shall be based on the meter size initially installed.

The above-mentioned SCC adjustments do not apply to nonpotable water service accounts.





## **Schedule L**

# **Drought Surcharge Rate Schedule for Water Service**

**FY20**





## SCHEDULE L – DROUGHT SURCHARGE RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE 07/12/17

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The rates for the Water Flow Charge shown in Schedule A may be increased up to the following maximum percentages during the specified declared drought stage.

**A TEMPORARY SURCHARGE FOR POTABLE WATER DELIVERED based on one month or two months of meter readings for all water delivered as a percentage of the total Water Flow Charge on customer bills:**

DROUGHT SURCHARGES ON TOTAL WATER FLOW CHARGE FOR WATER DELIVERED				
	Maximum Applicable Drought Surcharge Percentage <sup>1</sup> in 4 Stages			
	Stage 1	Stage 2	Stage 3	Stage 4
All potable water flow charges	0%	8%	20%	25%

<sup>1</sup>Drought surcharge percentage increase will be applied to the applicable rate of the customer's potable Water Flow Charge from Schedule A – Rate Schedule for Water Service. Prior to implementing the drought surcharges, the District will update drought related costs and develop surcharges based on the updated cost of service. Any surcharges that are imposed will be consistent with the District's staged system of drought surcharges and will not exceed the drought surcharge percentages listed in this Schedule.



# **Public Records Act Fee Schedule and District Publications Fees**

**FY20**





## PUBLIC RECORDS ACT FEE SCHEDULE

EFFECTIVE ~~07/12/17~~ 07/01/19

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### **INTRODUCTION**

The following ~~f~~Fee ~~s~~Schedule has been established by the District to cover the costs for duplicating District documents, drawings, maps, recordings, and other records, as required by the Public Records Act.

The District offers access to its records upon receipt of a request that reasonably describes an identifiable record. Any questions or requests concerning District documents should be addressed to the Secretary of the District, East Bay Municipal Utility District, P.O. Box 24055, Oakland, California 94623-1055, or by calling (510) 287-0404.

### **CHARGES**

Pursuant to the Public Records Act, the District may recover the “direct cost of duplication” for disclosable public records, unless a different charge is provided by statute. The direct cost of duplication generally covers two types of expenses – materials & equipment costs and labor costs.

- Materials & Equipment costs generally include the capital cost of the equipment, the maintenance contract, paper supplies, and other necessary expenses that must be incurred in order to make the equipment operational.
- Labor costs ordinarily include the pro rata salary ~~and benefits~~ of the clerical or technical employee operating the equipment.

The total cost for providing copies is a combination of materials, labor for actual duplication time, equipment usage, and postage, if applicable. The direct cost of duplication may vary depending on the size and type of media requested and the kind of reproduction equipment required.

Photocopies of non-District materials ~~housed in the District Library or in other areas~~ are charged at the same rate as District documents.

Prices quoted in this fee schedule are subject to change. An estimate of cost will be provided upon request.

Any records sent outside for duplication will be billed the actual cost of duplication by the outside vendor.

### **PAYMENT**

For requests estimated to cost over \$100 in duplication fees, a deposit in the amount of the estimated fee will be required before duplication.

For all requests, payment in advance is required before release of records. Acceptable methods of payment include cash or check (payable to East Bay Municipal Utility District).





## PUBLIC RECORDS ACT FEE SCHEDULE

EFFECTIVE ~~07/12/17~~ 07/01/19

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### **INSPECTION/DELIVERY/PICK UP**

The requestor is entitled to inspect records and/or obtain copies of records during normal business hours (8:00 a.m. to 4:30 p.m., Monday through Friday).

If the requestor wishes records to be delivered, copies will be sent first class mail unless the requestor makes other arrangements for pick up or delivery with the Secretary's Office. Postage will be charged for copies mailed to the requestor.

Federal Express service is available if the requestor supplies a Federal Express account number.

### **LEGAL COMPLIANCE OBLIGATIONS**

Responsibility for adherence to copyright law rests with the individual requesting copies.

### **CATEGORIES**

This ~~F~~fee ~~S~~schedule covers the following categories of document types or formats:

- I. Paper Based Records
  - A. General Business Documents & Engineering Drawings
  - B. Printed Maps
  - C. Bid Documents for Publicly Bid Projects
- II. Electronically Stored or Generated Records
  - A. Records that already exist
  - B. Records that do not already exist
  - ~~C. Audio Cassette Tapes~~
  - ~~D~~C. Compact Disks (CDs)
  - ~~E~~D. Digital Versatile Disks (DVDs)

Fees for document types/requests not covered herein will be provided upon request.



## PUBLIC RECORDS ACT FEE SCHEDULE

EFFECTIVE ~~07/12/17~~ 07/01/19

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### I. PAPER BASED RECORDS

#### A. GENERAL BUSINESS DOCUMENTS & ENGINEERING DRAWINGS

The fees charged for reproducing general business documents and engineering drawings, and printed maps photocopied onto regular paper in the sizes indicated below are based on the actual cost of duplication by District.

**Fee = Labor Cost** (\$~~0.56~~0.59 per minute duplicating time)  
**+ Materials & Equipment Cost** (e.g., cost per sheet or media)  
**+ Postage** (if applicable)

- **Labor Costs:** Labor costs for duplication time is charge at the rate of \$~~0.56~~0.59 per minute. Labor costs are based on the labor rate of a clerical employee and is charged only for the actual time spent on duplication.
- **Material & Equipment:** The duplicating cost per sheet or media type is based on the actual cost of materials and equipment needed to reproduce documents. As detailed below, fees will vary depending on the type and size of documents and the method used for duplication.

##### 1) Regular copies

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8-1/2 x 11	\$0.09/page
11 x 17	0.17/page

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##### 2) Color copies

Requests for color copies may be sent to an outside vendor and charged back to the requestor.

##### 3) Facsimile copies within the continental U.S.

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8-1/2 x 11	\$0.50/page
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## PUBLIC RECORDS ACT FEE SCHEDULE

EFFECTIVE ~~07/12/17~~ 07/01/19

### 4) Engineering drawings

Size	Bond	Vellum
8-1/2 x 11	\$0.09	N/A
11 x 17	0.17	N/A
17 width	0.33	N/A
22 width	0.66	\$1.77
28 x 38	0.96	N/A

For sizes larger than those indicated in this chart, Engineering Records will determine the cost.

Drawings having a width greater than 36 inches cannot be reproduced on District equipment and must be sent out for commercial copying. These charges will be billed to the requestor.

### B. PRINTED MAPS

The fees in this section apply to the duplication of existing hard copy B-maps. The fee listed is the cost per map for duplication by the District's print shop. All other pre-printed map sizes require special formatting and the cost for duplication by an outside vendor will be determined upon request.

<b>B-maps</b> 250' scale (11 x 17) includes Map View prints	\$0.99/map
<b>Map Book Covers</b>	\$38.64/cover

### C. BID DOCUMENTS FOR PUBLICLY BID PROJECTS

Copies of plans and specifications for publicly bid construction projects are available through the District's Specifications, Cost Estimating, and Engineering Standard Records (ESR) Section at a per set cost established as each project is issued for bid. The fee will be based on the cost for duplication at the District's print shop or an outside copy service and postage, if applicable.

Pre-paid documents will be sent first class mail unless the requestor makes other arrangements for document pickup or delivery with the Specification's Clerk. Federal Express service is available if the requestor supplies a Federal Express account number.

Contract documents are also available for viewing and downloading ~~online at~~ from EBMUD's public website: [www.ebmud.com](http://www.ebmud.com); via the "Business Center Opportunities" and ~~"Construction Bid Opportunities"~~ Link.



## PUBLIC RECORDS ACT FEE SCHEDULE

EFFECTIVE ~~07/12/17~~ 07/01/19

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Copies of CD-ROM versions of contract documents in Adobe Acrobat format are available free of charge from the Specifications Clerk at 510-287-1040.

Copies of historic contract documents can be provided in accordance with the provisions of item 1: General Business Documents.

### II. ELECTRONICALLY STORED OR GENERATED DATA

The fees in this section apply to records stored electronically.

In general, there are two types of electronic records: (a) records that already exist on the system and merely require printing; and (b) records that do not currently exist and require data compilation, extraction, or programming to produce. A different fee rate applies to each of these types of records.

#### A. RECORDS THAT ALREADY EXIST

When a ~~requester~~requestor seeks a record that already exists on the system (i.e., a record merely needs to be retrieved and printed, and does not require data compilation, extraction, or programming to produce), the following fee applies:

**Fee = Labor Cost** (~~\$0.56~~\$0.59 per minute duplicating time)  
**+ Materials & Equipment Cost**  
**+ Postage** (if applicable)

Materials & Equipment costs vary with the types/formats of records requested as specified below:

##### 1) Digital copies – PDF Files of B-maps

Cost of Media	
CD	\$3.05
DVD	6.35
Electronic Transfer	N/C



## PUBLIC RECORDS ACT FEE SCHEDULE

EFFECTIVE ~~07/12/17~~ 07/01/19

### 2) Maps on Demand

Size	Bond	Vellum*	Bond Color
8-1/2 x 11	\$0.10	\$0.19	\$0.38
11 x 17	0.19	0.36	0.73
17 x 22	0.33	0.60	2.05
22 x 34	0.49	0.84	3.38
28 x 38	0.66	1.10	5.02

\*These costs reflect color plots produced only from existing files.

### 3) Other Electronic Records

Description	Charge per Unit
8-1/2 x 11 (PC Printer)	\$0.09/page
CD	3.05 each
DVD	6.35 each

## B. RECORDS THAT DO NOT ALREADY EXIST

When a requestor seeks records that do not currently exist on the system and require data compilation, extraction, or programming to produce, the requestor shall pay the cost to construct a new record, and the cost of programming and computer services necessary to produce a copy of the record. However, the District is under no obligation to provide records that do not already exist. Accordingly, the applicable fee is:

**Fee = Labor Cost** (\$~~1.05~~ 1.11 per minute production time)  
**+ Materials & Equipment Cost** (rates specified in Section II.A)  
**+ Postage** (if applicable)

Labor cost is based on the "average technical labor" rate and is charged only for the actual time spent producing the record.

This fee also applies when the request requires producing a record outside of the regularly scheduled interval.

**NOTE – we no longer use cassette tapes.**



## PUBLIC RECORDS ACT FEE SCHEDULE

EFFECTIVE ~~07/12/17~~ 07/01/19

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### ~~C. AUDIO CASSETTE TAPES~~

~~Regular meetings of the Board of Directors are recorded on audiotape. Copies of recordings of Regular meetings of the Board of Directors are available upon request and can be provided on compact disc or digital versatile disc.~~ tapes are available upon request.

~~Fee = Labor Cost (\$0.56 per minute duplicating time)  
—— Cost per tape (90-minute cassette tape = \$1.68/tape)  
—— + Postage (if applicable)~~

### DC. COMPACT DISCS (CDs)

Fee = Labor Cost (\$~~0.56~~ 0.59 per minute duplicating time)  
Cost per disc (CD-R Disc, Write-Once, 700 MB, 80 Minute, 52X = \$3.05/disc)  
+ Postage (if applicable)

### ED. DIGITAL VERSATILE DISCS (DVDs)

Fee = Labor Cost (\$~~0.56~~ 0.59 per minute duplicating time)  
Cost per disc (DVD+R, 16X, Single Sided, 4.7 GB/120 Minutes = \$6.355/disc)  
+ Postage (if applicable)



## PUBLIC RECORDS ACT FEE SCHEDULE

EFFECTIVE ~~07/12/17~~ 07/01/19

### DISTRICT PUBLICATION FEES

**Fee = Cost of publication** (see below)  
**+ Sales tax**  
**+ Postage** (if applicable)

Municipal Utility District Act	\$5.15
Rules and Regulations (Customer Service Book)	\$8.12
Water Conserving Plants and Landscape for the Bay Area (Water Conservation Section)	
1 – 4 copies (EBMUD pickup)	\$12.00
1 – 4 copies (mailed)	\$15.00
5 or more copies	\$11.00
Its Name Was MUD	\$18.00

#### ~~Educational Materials (Outside of District's Service Area)~~

<del>Teacher's Guides</del>	
<del>    1 – 50 copies</del>	<del>\$2.00 each</del>
<del>    51 – 1,500 copies</del>	<del>\$1.75 each</del>
<del>Student Workbooks</del>	
<del>    1 – 5,000 copies</del>	<del>\$0.50 each</del>
<del>    5,001 – 50,000 copies</del>	<del>\$0.43 each</del>
<del>Captain Hydro Posters</del>	
<del>    1 – 1,000 copies</del>	<del>\$0.70 each</del>
<del>    1,001 and up</del>	<del>\$0.50 each</del>

#### Plants and Landscapes for Summer Dry Climates of the San Francisco Bay Region

<del>Soft cover</del>	<del>\$34.95 each</del>
<del>    District customer and employee</del>	<del>\$24.95 each</del>
Hardcover	\$49.95 each
District customer <u>s</u> and employee <u>s</u>	\$29.95 each
Wholesalers	up to 60% discount
Vendors	up to 50% discount



# **Real Property Use Application Fees**

**FY20**





## REAL PROPERTY USE APPLICATION FEES

EFFECTIVE ~~07/01/18~~ 07/01/19

TYPE OF USE	APPLICATION FEE
<b>Fee Title</b> ( <i>Outright purchase of District property</i> ) Properties for Sale Unsolicited	\$2,200.00 <del>12,700.00</del> <u>13,000</u>
<b>Easement</b> ( <i>Rights for permanent use of District property, such as access, utilities, etc.</i> ) Utility Type Other	2,200.00 <del>5,900.00</del> <u>6,100</u>
<b>Quitclaim</b> ( <i>Removal of District's right, title and interest to property</i> ) Pipe Abandonment Other	1,100.00 <del>2,400.00</del> <u>2,500</u>
<b>Revocable License</b> ( <i>Permission to use District property for periods exceeding one year, subject to revocation. For such uses as utility road crossings of aqueduct properties</i> )	<del>1,700.00</del> <u>1,800.00</u>
<b>Lease</b> ( <i>The right to occupy and use District land for a specified time period</i> )	2,200.00
<b>Telecommunication Lease</b> ( <i>Long-term lease for PCS, cellular and/or radio uses</i> )	<del>3,700.00</del> <u>3,800.00</u>
<b>Information-Only</b> ( <i>Request for information requiring research of District records. Information-only applicants will be charged a fee only if the estimated research time exceeds one hour</i> )	140.00/hr
<b>Processing and Review of Watershed Land Use Proposals</b> ( <i>Request for District to perform a formal evaluation of watershed land use proposal</i> )	140.00/hr (plus all other District costs)
<b>Property Entry Permits, Rights of Entry Permits</b> ( <i>Permission for temporary access onto District</i> )	<del>310.00</del> <u>330.00</u>
<b>Limited Land Use Permit</b> ( <i>Allows landscaping, gardening or other minor surface use of District property, subject to annual renewal</i> )	120.00
<b>Temporary Construction Easement/Encroachment Permit</b> ( <i>Permission for temporary access onto District</i> ) Open Land, No District Facilities With District Facilities	<del>650.00</del> <u>660.00</u> <del>2,300.00</del> <u>2,400.00</u>
<b>Survey Costs if needed</b> ( <i>Application use fees listed above do not include survey costs if needed</i> )	150.00/hr



## REAL PROPERTY USE APPLICATION FEES

EFFECTIVE ~~07/01/18~~ 07/01/19

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<u>TYPE OF USE (Continued)</u>	<u>APPLICATION FEE</u>
<u>Long Term Encroachment Permit</u>	<u>\$22,000.00</u>

**Recreation Use Fees**  
**Calendar Years 2020 and 2021**





## RECREATION USE FEES FOR 2020 & 2021

January – December 2020<sup>1</sup>

January – December 2021<sup>1</sup>

EFFECTIVE 01/01/20

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The following fees apply to use of the District's recreation facilities at Camanche Hills Hunting Preserve, Camanche Reservoir, Lafayette Reservoir, Pardee Reservoir, San Pablo Reservoir and on the District's Watershed Trail System.

All other (not included in this schedule) charges and fees for merchandise and services provided to the public in connection with the public uses of the recreation areas and facilities thereat shall be determined by the concessionaire or the District and shall be reasonable and consistent with charges for similar merchandise and services at similar locations.

General Discount Program – Discounts from fees listed may be offered in order to attract new customers and/or improve revenues. General discounts will be applied for specified time frames and apply fairly and uniformly. General discounts must be approved by the Director of Water and Natural Resources Department in advance.

District employees, retirees and immediate family receive free vehicle entry and boat launch, and a camping discount equal to the car entry fee (limit one per day).

Volunteer Discount Program – Free one-year Trail Use Permit and 50% discount on vehicle entry/parking and boat launch for those who contribute an annual minimum of 20 hours of volunteer work while participating in a District Volunteer Program.

Distinguished Veteran Discount Program – Holders of the California State Parks Distinguished Veteran Pass receive free day use and boat launch at all District recreation areas.

Fishing Access Permits are required for persons 16 yearss of age or older. Up to four children 15 years and under and accompanied by a person who possesses a valid CA fishing license and daily fishing access permit, may fish under that fishing access permit subject to the daily possession limit of the permit holder. Every accompanied child, over the allowed number of four, must have individual fishing access permits. Each child not accompanied by a fishing access permit holding adult must obtain his/her own fishing access permit.

No Fishing Access Permit is required on the two annual California Department of Fish and Wildlife Free Fishing Days.

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<sup>1</sup>Fee years are by calendar year for all locations except the Camanche Hills Hunting Preserve where fees are implemented earlier for the hunting year October 1- September 30.



**RECREATION USE FEES FOR 2020 & 2021**

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

**CAMANCHE HILLS HUNTING PRESERVE**Current  
CY19Proposed  
CY20Proposed  
CY21**PRESERVE LICENSE (QUANTITY PRICE BREAK)****PRESERVE LICENSE:**

Initiation Fee (Family)	<del>\$3,195.00</del>	<u>\$3,495.00</u>	\$3,495.00
Initiation Fee (Corporate)	<del>3,195.00</del>	<u>\$3,495.00</u>	\$3,495.00
Annual Maintenance (Family)	300.00	300.00	300.00
Annual Maintenance (Corporate)	<del>500.00</del>	<u>600.00</u>	600.00

**LICENSED GUIDE GOOSE HUNT (PER PERSON/HUNT)**

200.00	200.00	200.00
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**BIRD PROCESSING: (PRICE PER EACH)**

Pheasant	4.00	4.00	4.00
Chukar	4.00	4.00	4.00
20-bird card (pheasant and chukar) for 20	70.00	70.00	70.00
Duck	4.50	4.50	4.50
Goose	10.00	10.00	10.00
Smoking (all birds)	<del>5.00</del>	<u>6.00</u>	6.00

**DOG RENTAL**

Half Day	75.00	75.00	75.00
Full Day	140.00	140.00	140.00
Special Hunt	140.00	140.00	140.00

**SPORTING CLAYS**

Full Round Course (100 targets)	40.00	40.00	40.00
Half Round Course (50 targets)	22.00	22.00	22.00
25 targets (5-Stand/Grouse bunker)	9.00	9.00	9.00
5 targets (Skeet/trap)	6.00	6.00	6.00

**ARCHERY RANGE AND COURSE**

7 Station 3-D Target Course			
Per person	10.00	10.00	10.00
Per pair	<del>18.00</del>	<del>18.00</del>	<del>18.00</del>
Per group (max 4)	<del>34.00</del>	<del>34.00</del>	<del>34.00</del>

**FISHING ACCESS TO RABBIT CREEK ARM OF CAMANCHE LAKE AND FARM PONDS LOCATED ON CHHP RECREATIONAL AREA**

Public Fishing Access	10.00	10.00	10.00
CHHP Members Access	5.00	5.00	5.00

**FISHING ACCESS TO RABBIT CREEK ARM OF CAMANCHE LAKE**

Public Fishing Access: Bow for Carp	10.00	10.00	10.00
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## RECREATION USE FEES FOR 2020 & 2021

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

### **CAMANCHE HILLS HUNTING PRESERVE (continued)**

	<u>Current CY19</u>	<u>Proposed CY20</u>	<u>Proposed CY21</u>
<u>RV Parking Area</u>			
Nightly	\$6.00	\$6.00	\$6.00
Clubhouse Rental (daily)	500.00	500.00	500.00
Kitchen Rental (daily)	500.00	500.00	500.00
Grounds (daily)	500.00	500.00	500.00

### **Camanche Hills Hunting Preserve Discounts, Special Programs and Limitations**

Pricing for planted bird hunting will be reviewed and approved by the Director of Water and Natural Resources.

Free bird hunting and sporting clays shooting is offered to the communications media, based on the availability of birds and sporting clays course.

Free use of the facilities is offered to non-profit hunting organizations for family, disabled and junior hunting functions.

A ~~T~~target ~~S~~shooting (sporting clay, trap, 5-stand and bunkers) discount of 15% is offered to Senior, Disabled, and active or retired military visitors.

A ~~T~~target ~~S~~shooting discount of 50% is offered to Distinguished Veteran Pass holders.

A ~~D~~driven ~~P~~pheasant ~~S~~shoot discount of 15% is offered to Senior, Disabled, active or retired military, and Distinguished Veteran Pass holders.

An RV ~~P~~parking discount of 50% is offered to Senior, Disabled and Distinguished Veteran Pass holders.

Daily field trial events are permitted on a limited basis. Fees range from \$0 for qualified non-profit organizations to a maximum of \$200.00.

EBMUD employees and retirees, concession employees and Tri-County (Amador, Calaveras and San Joaquin) Public Safety Personnel receive a 20% discount on food purchases and a 10% discount on sporting clays.

Discounts and incentives are separate and cannot be combined for a larger discount or incentive.

**RECREATION USE FEES FOR 2020 & 2021**

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

**CAMANCHE RESERVOIR – NORTH SHORE  
AND SOUTH SHORE RECREATION AREAS**Current  
CY19Proposed  
CY20Proposed  
CY21**VEHICLE ENTRY/PARKING****CAR/MOTORCYCLE/SMALL VAN**

Daily	<del>\$13.50</del>	<u>\$14.50</u>	<u>\$15.00</u>
Daily, after 3:00pm weekdays except Memorial Day, Independence Day, and Labor Day	<del>10.50</del>	<u>11.50</u>	<u>12.00</u>
Daily (Off-season)	<del>9.00</del>	<u>10.00</u>	<u>10.50</u>
Nightly (non-camping)	<del>13.50</del>	<u>14.50</u>	<u>15.00</u>
Annual (12 consecutive months)	<del>175.00</del>	<u>195.00</u>	<u>205.00</u>
Combined Car/Boat Daily	<del>17.00</del>	<u>17.50</u>	17.50
Combined Car and Boat 5 Use Card (Off- season)	<del>65.00</del>	<u>67.50</u>	67.50
Combined Car and Boat 5 Use Card, after 3:00 p.m. weekdays	<del>40.00</del>	<u>42.50</u>	42.50
Annual Marina Overnight/Day Use (12 consecutive months)	<del>225.00</del>	<u>240.00</u>	240.00

**VEHICLE ENTRY/PARKING LARGE VANS  
AND BUSES**

Large Vans – 10-20 Passengers	<del>19.00</del>	<u>22.00</u>	<u>23.00</u>
Buses – 21+ Passengers	<del>36.00</del>	<u>42.00</u>	<u>44.00</u>

**DOG**

Daily ( <u>Fee charged each day in park</u> )	<del>5.50</del>	<u>5.75</u>	<u>6.00</u>
Annual (12 consecutive months concurrent with Annual Parking Pass)	<del>35.00</del>	<u>45.00</u>	<u>50.00</u>

**BOAT LAUNCH**

Daily ( <u>Fee charged each day in park</u> )	<del>12.00</del>	<u>12.50</u>	<u>13.00</u>
Daily (Off-season) ( <u>Fee charged each day in park</u> )	<del>9.00</del>	<u>9.50</u>	<u>10.00</u>
Night ( <u>Fee charged each day in park</u> )	<del>12.00</del>	<u>12.50</u>	<u>13.00</u>
Annual (12 consecutive months)	<del>165.00</del>	<u>170.00</u>	<u>175.00</u>
Senior/Disabled/Formal POW/Disabled Veteran Annual (12 consecutive months)	<del>82.50</del>	<u>85.00</u>	<u>87.50</u>

**BOAT MOORING (Buoy)**

Nightly	16.00	16.00	16.00
Weekly	90.00	90.00	90.00
Monthly: under 30 feet	285.00	285.00	285.00
30 feet & larger	340.00	340.00	340.00
Annual (12 consecutive months):			
under 30 feet	<del>1,550.00</del>	<u>1,675.00</u>	<u>N/A</u>
30 feet & larger	<del>2,050.00</del>	<u>2,225.00</u>	<u>2,400.00</u>

**RECREATION USE FEES FOR 2020 & 2021**

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

**CAMANCHE RESERVOIR – NORTH SHORE  
AND SOUTH SHORE RECREATION AREAS  
(continued)**

	<u>Current CY19</u>	<u>Proposed CY20</u>	<u>Proposed CY21</u>
<b>BOAT SLIP OPEN (Excluding park entry)</b>			
Daily	<del>\$30.00</del>	<u>\$33.00</u>	<u>\$36.00</u>
Weekly	<del>150.00</del>	<u>160.00</u>	<u>170.00</u>
Monthly	<del>350.00</del>	<u>375.00</u>	<u>400.00</u>
Annual (12 consecutive months)	<del>1,650.00</del>	<u>1,750.00</u>	<u>1,775.00</u>
8 Months	<del>1,350.00</del>	<u>1,450.00</u>	<u>1,475.00</u>
Key Security Deposit	10.00	10.00	10.00
<b>BOAT SLIP COVERED – 24' Length Maximum</b>			
Daily	<del>45.00</del>	<u>48.00</u>	<u>51.00</u>
Weekly	<del>190.00</del>	<u>200.00</u>	<u>210.00</u>
Monthly	<del>525.00</del>	<u>550.00</u>	<u>575.00</u>
Annual (12 consecutive months)	<del>2,100.00</del>	<u>2,200.00</u>	<u>2,300.00</u>
Key Security Deposit	50.00	50.00	50.00
<b>BOAT SLIP COVERED – (over 24' Length Excluding park entry)</b>			
Daily	50.00	50.00	50.00
Weekly	<del>250.00</del>	<u>260.00</u>	<u>275.00</u>
Monthly	<del>625.00</del>	<u>650.00</u>	<u>675.00</u>
Annual (12 consecutive months)	<del>2,600.00</del>	<u>2,750.00</u>	<u>2,900.00</u>
Key Security Deposit	50.00	50.00	50.00
<b>RV/TRAILER/BOAT STORAGE (Excluding park entry)</b>			
Weekly	<del>55.00</del>	<u>60.00</u>	<u>65.00</u>
Monthly	<del>130.00</del>	<u>140.00</u>	<u>150.00</u>
12 Months, consecutive	<del>750.00</del>	<u>800.00</u>	<u>825.00</u>
Monthly – 30' Length Maximum (Concurrent with Mooring/Slip Rental)	<del>60.00</del>	<u>65.00</u>	<u>70.00</u>
Monthly – Over 30' (Concurrent with Mooring/Slip Rental)	<del>90.00</del>	<u>95.00</u>	<u>100.00</u>
Annual – 30' Length Maximum (Concurrent with Mooring/Slip Rental) (12 consecutive months)	<del>320.00</del>	<u>340.00</u>	<u>350.00</u>
Annual – Over 30' (Concurrent with Mooring/Slip Rental) (12 consecutive months)	<del>450.00</del>	<u>470.00</u>	<u>480.00</u>
Annual – concurrent with Mobile Home Space rent (12 consecutive months)	425.00	425.00	425.00
Annual – concurrent with Mobile Home Space rent (<28', 1 boat only, dry #3) (12 consecutive months)	175.00	175.00	175.00

**RECREATION USE FEES FOR 2020 & 2021**

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

**CAMANCHE RESERVOIR – NORTH SHORE  
AND SOUTH SHORE RECREATION AREAS  
(continued)**Current  
CY19Proposed  
CY20Proposed  
CY21**FISHING ACCESS PERMIT**

Daily	<del>\$6.50</del>	<u>\$7.00</u>	<u>\$7.25</u>
Annual	<del>140.00</del>	<u>145.00</u>	<u>150.00</u>

**CAMPSITE (w/vehicle parking)**

Nightly	<del>32.00</del>	<u>35.50</u>	<u>37.50</u>
Nightly (Off-season – <del>Friday thru Sunday</del> <del>nights</del> )	<del>17.00</del>	<u>24.00</u>	<u>24.00</u>
<del>Midweek (Monday thru Thursday night)</del>	<del>8.50</del>		
Second Car Parking	<del>15.00</del>	<u>16.00</u>	<u>17.00</u>
Weekly	<del>165.00</del>	<u>173.50</u>	<u>178.50</u>
Second Car Weekly	<del>75.00</del>	<u>80.00</u>	<u>85.00</u>
14 nights	<del>300.00</del>	<u>332.00</u>	<u>357.00</u>
5 Use Card (Off-season)	<del>85.00</del>	<u>92.50</u>	<u>97.50</u>
Camping Reservation Fee	<del>11.00</del>	<u>11.75</u>	<u>12.00</u>

**LAKESIDE PREMIUM CAMPSITES**

Nightly	<del>40.00</del>	<u>42.50</u>	<u>45.50</u>
Nightly (Off-season – Friday thru Sunday nights)	<del>18.00</del>	<u>19.50</u>	<u>20.50</u>
Midweek (Monday thru Thursday night)	<del>9.00</del>	<u>10.00</u>	<u>10.50</u>
Second Car Parking	<del>15.00</del>	<u>15.50</u>	<u>16.00</u>
Weekly	<del>195.00</del>	<u>203.50</u>	<u>213.50</u>
Second Car Weekly	<del>80.00</del>	<u>85.00</u>	<u>90.00</u>
14 nights	<del>360.00</del>	<u>377.00</u>	<u>382.00</u>
5 Use Card (Off-season)	<del>85.00</del>	<u>92.50</u>	<u>102.50</u>

**CAMPSITES WITH TENT ~~YURT~~  
STRUCTURES**

8 person nightly	<del>85.00</del>	<u>85.50</u>	85.50
16 person nightly	<del>150.00</del>	<u>151.00</u>	151.00
8 person weekly	<del>425.00</del>	<u>428.50</u>	428.50
16 person weekly	<del>655.00</del>	<u>662.00</u>	662.00

**CAMPSITE (WALK-IN/BICYCLE PARKING –  
8 PERSON/BIKE MAX)**

Nightly	<del>25.00</del>	<u>25.50</u>	25.50
Weekly	<del>135.00</del>	<u>138.50</u>	138.50
14 nights	<del>255.00</del>	<u>262.00</u>	262.00

**RECREATION USE FEES FOR 2020 & 2021**

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

**CAMANCHE RESERVOIR – NORTH SHORE  
AND SOUTH SHORE RECREATION AREAS  
(continued)**Current  
CY19Proposed  
CY20Proposed  
CY21**GROUP CAMP (Nightly)**

12-Person Limit	<del>\$110.00</del>	<u>\$116.00</u>	<u>\$121.00</u>
16-Person Limit	<del>135.00</del>	<u>141.00</u>	<u>146.00</u>
24-Person Limit	<del>160.00</del>	<u>166.50</u>	<u>171.50</u>
32-Person Limit	<del>210.00</del>	<u>222.00</u>	<u>227.00</u>
64-Person Limit	<del>375.00</del>	<u>404.00</u>	<u>429.00</u>
72-Person Limit	<del>425.00</del>	<u>455.00</u>	<u>480.00</u>

**GROUP CAMP (Nightly, off-season)**

12-Person Limit	<del>55.00</del>	<u>61.00</u>	<u>66.00</u>
16-Person Limit	<del>60.00</del>	<u>66.00</u>	<u>71.00</u>
24-Person Limit	<del>65.00</del>	<u>71.50</u>	<u>76.50</u>
32-Person Limit	<del>70.00</del>	<u>77.00</u>	<u>82.00</u>
64-Person Limit	<del>145.00</del>	<u>154.00</u>	<u>159.00</u>
72-Person Limit	<del>170.00</del>	<u>190.00</u>	<u>205.00</u>

**EQUESTRIAN – TURKEY HILL – 2 HORSES  
PER SINGLE SITE – “NO OFF-SEASON  
DISCOUNTS”**

General Assembly Area	<del>90.00</del>	<u>95.00</u>	<u>100.00</u>
Turkey Hill Single	<del>57.00</del>	<u>60.50</u>	<u>65.50</u>
Turkey Hill Double	<del>115.00</del>	<u>121.00</u>	<u>126.00</u>
Turkey Hill Triple	<del>135.00</del>	<u>141.50</u>	<u>151.50</u>
Turkey Hill Quad	<del>185.00</del>	<u>192.00</u>	<u>202.00</u>
Entire Turkey Hill (includes assembly area)	<del>650.00</del>	<u>690.00</u>	<u>730.00</u>

**RV SITE**

Nightly	<del>52.00</del>	<u>54.50</u>	<u>56.50</u>
Weekly	<del>305.00</del>	<u>313.50</u>	<u>323.50</u>
Monthly	<del>575.00</del>	<u>610.00</u>	<u>635.00</u>
Season (6-Month Max)	<del>1,850.00</del>	<u>1,915.00</u>	<u>1,965.00</u>
6 night off-season use card (Off-Season)	<del>190.00</del>	<u>198.00</u>	<u>203.00</u>
Premium Sites (Peak Season)	<del>57.00</del>	<u>60.50</u>	<u>63.50</u>
Premium Sites Weekly (Peak Season)	<del>335.00</del>	<u>343.50</u>	<u>353.50</u>

**TOWING**

Camanche Recreation Area per hour	<del>120.00</del>	<u>130.00</u>	<u>135.00</u>
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**MISCELLANEOUS**

Camanche Recreation Area Lake Tours	14.00	14.00	14.00
Holding Tank Pumping	<del>100.00</del>	<u>105.00</u>	<u>110.00</u>

**RECREATION USE FEES FOR 2020 & 2021**

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

**CAMANCHE RESERVOIR – NORTH SHORE  
AND SOUTH SHORE RECREATION AREAS  
(continued)**Current  
CY19Proposed  
CY20Proposed  
CY21**BOAT/VESSEL DECONTAMINATION**Vessel decontamination (up to 30')\$35.00

\$35.00

\$35.00

Vessels over 30' in length35 + 5.00

35 + 5.00

35 + 5.00

for each 5'

for each 5'

for each 5'

over 30'

over 30'

over 30'

Ballast tanks decontamination10.00

10.00

10.00

Tank, bilge, live well decontamination only25.00

25.00

25.00

PWC storage area decontamination only25.00

25.00

25.00

Kayaks and Canoes decontamination25.00

25.00

25.00

**COTTAGE/MOTEL GENERAL**Camanche Recreation Area – Security  
Deposit~~\$200.00~~~~\$200.00~~~~\$200.00~~Additional Guest Charge (to maximum  
occupancy)

15.00

15.00

15.00

**COTTAGE (4-Person Base)**

May – Sept: Night

~~180.00~~185.50190.50

Week

~~850.00~~863.50903.50

Oct – April: Night

~~115.00~~120.50125.50

Week

~~570.00~~583.50628.50

Month

~~1,500.00~~1,560.001,710.00**COTTAGE (6-Person Base)**

May – Sept: Night

~~225.00~~235.50245.50

Week

~~950.00~~1,003.501,053.50

Oct – April: Night

~~150.00~~155.50160.50

Week

~~700.00~~753.50778.50

Month

~~1,250.00~~1,335.001,360.00**MOTEL (TWIN)**

May – Sept: Night

~~80.00~~85.5090.50

Week

~~400.00~~428.50453.50

Oct – April: Night

~~60.00~~65.5070.50

Week

~~300.00~~328.50353.50

Month

~~525.00~~585.00610.00**RESORT RENTAL (4 BEDROOM, 14  
PERSON MAX)**

May – Sept: Night

~~375.00~~400.50425.50

Week

~~1,750.00~~1,803.501,853.50

Oct – April: Night

~~155.00~~200.50225.50

Week

~~785.00~~853.50903.50





# RECREATION USE FEES FOR 2020 & 2021

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

## CAMANCHE RESERVOIR – NORTH SHORE AND SOUTH SHORE RECREATION AREAS (continued)

### MOBILE HOME (MONTHLY)

3 bedroom

Current  
CY19

Proposed  
CY20

Proposed  
CY21

~~927.27~~

929.77 +  
HUD FMR<sup>2</sup>

CY20 Rate +  
HUD FMR<sup>2</sup>

### MOBILE HOME SPACES (MONTHLY)

North Shore 1A

~~508.57~~

511.07\* +  
HUD FMR<sup>2</sup>

CY20 Rate\* +  
HUD FMR<sup>2</sup>

North Shore 1B

~~535.29~~

537.79\* +  
HUD FMR<sup>2</sup>

CY20 Rate\* +  
HUD FMR<sup>2</sup>

North Shore 2

~~645.52~~

618.02\* +  
HUD FMR<sup>2</sup>

CY20 Rate\* +  
HUD FMR<sup>2</sup>

South Shore

~~538.29~~

540.79\* +  
HUD FMR<sup>2</sup>

CY20 Rate\* +  
HUD FMR<sup>2</sup>

\*Mobile homes registered through Amador County receive a \$2.50 credit on their monthly rent to reflect their payment of fire-related fees.

### OTHER MOBILE HOME FEES (Per Space – Monthly)

Guest Fee

\$75.00

\$75.00

\$75.00

Late Rent/Returned Check Fee

~~40.00~~

50.00

50.00

### FACILITY RENTAL

Lakeside Hall Daily (hall only)

~~700.00~~

750.00

775.00

Lakeside Hall Daily (kitchen & service ware included)

~~1,000.00~~

1,050.00

1,100.00

Lakeside Hall Cleaning and Equipment Deposit

1,000.00

1,000.00

1,000.00

Camanche Clubhouse Rental (North Shore) Daily

~~150.00~~

160.00

175.00

Camanche Clubhouse Rental (South Shore)

~~100.00~~

110.00

120.00

<sup>2</sup>HUD FMR is the Housing and Urban Development Fair Market Rents Index which is published by HUD each October. The mobile home rental space rate will be adjusted annually based on the percent change in the HUD FMR index for 2-bedroom homes averaged for Amador and Calaveras Counties.



## RECREATION USE FEES FOR 2020 & 2021

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

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### **Camanche Reservoir – North and South Shore Recreation Area Discounts, Special Programs, Limitations**

Concessionaire Employees receive free entrance to and use of rental boats during off-hours, a 20% discount on food and merchandise, and a camping discount equal to the car entrance fee. Limited to one free vehicle entry and one free boat rental per employee per day.

Concessionaire and/or District may provide free entry and use of rental boats for disadvantaged groups (e.g., disabled, senior, youth, veteran), and for media to promote the recreation area.

Current Camanche Regional Park Advisory Board members and active field public safety personnel in Amador, Calaveras and San Joaquin County receive free day use entry.

Senior/Disabled receive 50% discount on annual entry and boat launch fees, and on non-holiday weekday boat rentals. Senior rates are for individuals with a driver's license or ID showing age 62 or older.

Active, reserve, retired, and veteran military personnel receive 20% discount on day use entry, boat rentals, (excluding rental of the party barge), camping and short-term (14-day) RV sites and lodging. Military identification required. Discount may not be combined with other offers.

Distinguished Veteran Pass holders receive free day use and boat launch and 50% discount on non-holiday weekday boat rentals.

Mobilehome Park Tenants receive 50% off non-holiday weekday boat rentals and additional 25% off for qualifying Senior/Disabled/Former POW/Disabled Veteran tenants; special additional incentives for non-holiday Tuesday boat rentals; a 40% discount on off-season monthly open slip, covered slip and mooring buoy fees; and a 10% discount on regularly priced marina/store items not including fishing access permits, fishing license, prepared food/beverage, gasoline and propane.

Groups of four or less individuals meeting the criteria for disabled discounts shall be eligible to rent the 6-person ADA cottages at Camanche for the 4-person cottage rate.

Turkey Hill Equestrian Campground single site customers renting larger spaces due to single sites being occupied shall be charged the lesser prorated rate.

Concessionaire or District can issue return coupons for free entry or camping for dissatisfied customers.

Groups participating in volunteer District facility improvement programs receive 50% discount on entry and camping fees.

Short-term visitor passes may be issued for periods up to one-hour.



**RECREATION USE FEES FOR 2020 & 2021**  
**January – December 2020**  
**January – December 2021**  
**EFFECTIVE 01/01/20**

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**Camanche Reservoir – North and South Shore Recreation Area Discounts, Special Programs, Limitations (continued)**

Campsite charges include one vehicle entry, and RV site charges include a second/tow vehicle. Monthly and Seasonal RV Park fees include one vehicle entry, but do not include electricity charge. Electricity is metered and charged separately. Each of the daily charges, except the fishing access permit, shall be valid and effective for the calendar day upon which the charge was made, from one hour before sunrise until one hour after sunset.

Fishing access permits are valid until midnight of said day.

Each of the weekly charges shall be valid and effective for the calendar week in which the charge is made, terminating at 1:00 p.m. on the seventh consecutive day of said period. The seasonal charges noted for each recreation area shall be valid and effective for a period not exceeding 24 consecutive hours and terminating at 1:00 p.m. during said period.

Check out time for all RV sites is 1:00 p.m.

Peak Season is May 1 – September 30. Off-season is October 1 – April 30.

Premium Campsite or Premium RV site is a site that due to enhanced amenities, waterfront access or other special features is rented at a higher rate than a standard site.

Standard campsites may have a maximum of 8 people and 2 vehicles.

Short-term visitor passes may be issued for periods of up to one-hour.



## RECREATION USE FEES FOR 2020 & 2021

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

### LAFAYETTE RECREATION AREA

Current  
CY19

Proposed  
CY20

Proposed  
CY21

#### ENTRY AND PARKING –

##### CAR/MOTORCYCLE/SMALL VAN

Daily	\$7.00	\$7.00	\$7.00
Annual (new <u>or renewal</u> , includes \$25 access card)	<del>145.00</del>	<u>120.00</u>	120.00
<del>Annual (renewal, using existing access card)</del>	<del>120.00</del>		
<u>Annual (new or renewal) 2 years</u>		<u>240.00</u>	240.00
Replacement <u>hang-tag access card (gate card)</u>	25.00	<u>25.00*</u>	25.00*
<u>*replacement limited to 1 hang-tag per year</u>			
Parking Meters 1/2 hour (may be increased up to a maximum rate of \$0.75 per 1/2 hour prior to CY13)	0.75	0.75	0.75
Senior/Disabled			
Season (new <u>or renewal</u> )	<del>105.00</del>	<u>80.00</u>	80.00
<u>Season (new or renewal) 2 years</u>		<u>160.00</u>	160.00
<del>Season (renewal upon existing access card)</del>	<del>80.00</del>		

#### ENTRY AND PARKING –

##### LARGE VANS AND BUSES

Large Vans – 10-20 Passengers	18.00	18.00	18.00
Buses – 21+ Passengers	33.00	33.00	33.00

**DOG** (no charge)

**COMMERCIAL USES** (in addition to the base fee noted below, the Director of Water and Natural Resources may set an additional fee to recover the District's direct costs plus overhead)

Commercial Use			
Small (up to 10 people)	100.00	100.00	100.00
Medium (from 11 to 50 people)	500.00	500.00	500.00
Large (from 51 to 150 people)	1,000.00	1,000.00	1,000.00

#### BOAT LAUNCH

Daily	4.00	4.00	4.00
Annual	50.00	50.00	50.00
Boat Inspection Fee	6.00	6.00	6.00

#### FISHING ACCESS

Daily	5.00	5.00	5.00
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## RECREATION USE FEES FOR 2020 & 2021

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

### LAFAYETTE RECREATION AREA (continued)

Current  
CY19

Proposed  
CY20

Proposed  
CY21

#### GROUP PICNIC

Small Site (Weekend/Holiday)	200.00	200.00	200.00
Small Site (Weekday/Non-Holiday)	100.00	100.00	100.00
Large Site (Weekend/Holiday)	350.00	350.00	350.00
Large Site (Weekday/Non-Holiday)	175.00	175.00	175.00
Special Events Fee	500.00 + \$1/participant	500.00 + \$1/participant	500.00 + \$1/participant

#### Lafayette Reservoir – Discounts, Special Programs, Limitations

District may provide free entry and use of rental boats for disadvantaged groups (e.g., disabled, senior, youth, veteran), and for media to promote the recreation area.

Senior/Disabled receive 50% discount on boat launch fees and on non-holiday weekday boat rentals. Senior rates are for individuals with a drivers' license showing age 62 or older.

Distinguished Veteran Pass holders receive free day use and boat launch and 50% discount on non-holiday weekday boat rentals.

**RECREATION USE FEES FOR 2020 & 2021**

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

**PARDEE RECREATION AREA**Current  
CY19Proposed  
CY20Proposed  
CY21**VEHICLE ENTRY AND PARKING –  
CAR/MOTORCYCLE/SMALL VAN**

Daily/Nightly (Non-Camping)	<del>\$10.50</del>	<u>\$10.00</u>	\$10.00
Season	118.00	118.00	118.00
Combined Car/Boat Daily	16.00	16.00	16.00

**VEHICLE ENTRY AND PARKING –  
LARGE VANS AND BUSES**

Large Vans – 10-20 Passengers	22.00	22.00	22.00
Buses – 21+ Passengers	38.00	38.00	38.00

**DOG**

Daily ( <u>Fee charged each day in park</u> )	<del>5.50</del>	<u>5.00</u>	5.00
Season (Concurrent with Season Parking Pass)	35.00	<u>45.00</u>	<u>50.00</u>

**STANDARD BOAT LAUNCH**

Daily ( <u>Fee charged each day in park</u> ) ( <del>Weekend included</del> )	<del>9.50</del>	<u>10.00</u>	10.00
Season	<del>106.00</del>	<u>110.00</u>	110.00

**CARTOP BOAT LAUNCH (Float Tube,  
Kayak, Canoe, Scull)**

Daily	<del>5.50</del>	<u>5.00</u>	5.00
Season	<del>46.00</del>	<u>44.00</u>	44.00

**BOAT SLIP (excluding park entry)**

Daily	10.00	10.00	10.00
Weekly	50.00	50.00	50.00
Monthly	<del>140.00</del>	<u>120.00</u>	120.00
Season	690.00	690.00	690.00
Season (concurrent with season RV)	640.00	640.00	640.00

**FISHING ACCESS**

Daily	<del>6.50</del>	<u>7.00</u>	<u>7.25</u>
Annual	200.00	200.00	200.00

**MISCELLANEOUS**

RV/Campsite Reservation Fee	<del>10.50</del>	<u>10.00</u>	10.00
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# RECREATION USE FEES FOR 2020 & 2021

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

PARDEE RECREATION AREA (continued)	<u>Current CY19</u>	<u>Proposed CY20</u>	<u>Proposed CY21</u>
<b>STANDARD CAMPSITE (w/vehicle parking)</b>			
Nightly	<del>29.00</del>	<u>25.00</u>	25.00
Second Car Parking	10.00	10.00	10.00
Weekly	<del>174.00</del>	<u>150.00</u>	150.00
Second Car Parking	60.00	60.00	60.00
<b>PREMIUM CAMPSITE (w/vehicle parking)</b>			
Nightly	<del>\$32.00</del>	<u>\$30.00</u>	\$30.00
Weekly	<del>192.00</del>	<u>180.00</u>	180.00
<b>CAMPSITE (walk-in/bicycle parking)</b> (8 person/8 bike maximum)			
Nightly	23.00	23.00	23.00
Weekly	138.00	138.00	138.00
<b>DOUBLE CAMPSITE (16 people/2 vehicles)</b>			
Nightly	<del>55.00</del>	<u>50.00</u>	50.00
Third or Fourth Vehicle	10.00	10.00	10.00
<b>RV SITE</b>			
Nightly	40.00	40.00	40.00
Weekly	240.00	240.00	240.00
Monthly	520.00	520.00	520.00
Season	<del>3,150.00</del>	<u>3,591.00</u>	<u>4,095.00</u>
Season – Premium Site	<del>3,250.00</del>	<u>3,705.00</u>	<u>4,225.00</u>
<b>RV/TRAILER/BOAT STORAGE (excluding park entry)</b>			
Weekly	<del>25.00</del>	<u>30.00</u>	30.00
Monthly	<del>65.00</del>	<u>70.00</u>	70.00
Season	510.00	510.00	510.00
Season – concurrent with season RV site	445.00	445.00	445.00
12-Month Consecutive	670.00	670.00	670.00
<b>TOWING</b>	80.00	80.00	80.00
<b>RESERVABLE SITE/FACILITY (charges in addition to above fees)</b>			
Small (25 or less people)	70.00	70.00	70.00
Medium (26-100 people)	100.00	100.00	100.00
Large (101-150 people)	150.00	150.00	150.00
Over 150 people	265.00	265.00	265.00
Café/Pool Day Use Area (refundable deposit)	60.00	60.00	60.00





## RECREATION USE FEES FOR 2020 & 2021

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

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### PARDEE RESERVOIR – DISCOUNTS, SPECIAL PROGRAMS, LIMITATIONS

Concessionaire Employees receive free entrance to and use of rental boats during off-season hours, a 20% discount on food and merchandise, and a camping discount equal to the car entrance fee. Limited to one free vehicle entry and one free boat rental per employee per day.

Concessionaire and/or District may provide free entry and use of rental boats for disadvantaged groups (e.g., disabled, senior, youth, veteran), and for media to promote the recreation area.

Current Camanche Regional Park Advisory Board members and active field public safety personnel in Amador, Calaveras and San Joaquin County receive free day use entry.

Senior/Disabled receive 50% discount on annual entry and boat launch fees, and on non-holiday weekday boat rentals. Senior rates are for individuals with a driver's license or ID showing age 62 or older.

Active, reserve, retired, and veteran military personnel receive 20% discount on day use entry, boat rentals, (excluding Deluxe Pontoon), and dry camping (excluding RV hook-up sites). Military identification required. Discount may not be combined with other offers.

Distinguished Veteran Pass holders receive free day use and boat launch and 50% discount on non-holiday weekday boat rentals.

Concessionaire or District can issue return coupons for free entry or camping for dissatisfied customers.

Groups participating in volunteer District facility improvement programs receive 50% discount on entry and camping fees.

Campsite charges include one vehicle entry, and RV site charges include a second/tow vehicle.

Monthly and Seasonal RV Park fees include one vehicle entry, but do not include electricity charge. Electricity is metered and charged separately.

Each of the daily charges, except the fishing access permit, shall be valid and effective for the calendar day upon which the charge was made, from one hour before sunrise until one hour after sunset. Fishing access permits are valid until midnight of said day.

Each of the weekly charges shall be valid and effective for the calendar week in which the charge is made, terminating at 1:00 p.m. on the seventh consecutive day of said period.

Each of the nightly charges shall be valid and effective for a period not exceeding 24 consecutive hours and terminating at 1:00 p.m. during said period.



**RECREATION USE FEES FOR 2020 & 2021**  
**January – December 2020**  
**January – December 2021**  
**EFFECTIVE 01/01/20**

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**PARDEE RESERVOIR – DISCOUNTS, SPECIAL PROGRAMS, LIMITATIONS (continued)**

Premium Campsite or Premium RV site is a site that due to enhanced amenities, waterfront access or other special features is rented at a higher rate than a standard site.

Standard campsites may have a maximum of 8 people and 2 vehicles.

Short-term visitor passes may be issued for periods up to one hour.



# RECREATION USE FEES FOR 2020 & 2021

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

## SAN PABLO RECREATION AREA

ENTRY AND PARKING – CAR/MOTORCYCLE/SMALL VAN	<u>Current</u> <u>CY19</u>	<u>Proposed</u> <u>CY20</u>	<u>Proposed</u> <u>CY21</u>
Daily	\$7.00	\$7.00	\$7.00
Daily (Special Events)	5.00	5.00	5.00
Season	<del>110.00</del>	<u>120.00</u>	120.00
<del>3-Month Season</del>	<del>36.00</del>		

ENTRY AND PARKING – LARGE VANS AND BUSES			
Large Vans – 10-20 Passengers	22.00	22.00	22.00
Buses – 21+ Passengers	40.00	40.00	40.00

DOG	<del>2.00</del>	<u>3.00</u>	3.00
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**COMMERCIAL USES** (in addition to the base fee noted below, the Director of Water and Natural Resources may set an additional fee to recover the District's direct costs plus overhead)

Small (up to 10 people)	120.00	120.00	120.00
Medium (from 11 to 50 people)	600.00	600.00	600.00
Large (from 51 to 150 people)	1,200.00	1,200.00	1,200.00

STANDARD BOAT LAUNCH			
Daily	8.00	8.00	8.00
Season (Entry & Boat Launch)	<del>163.00</del>	<u>170.00</u>	170.00
<del>3-Month Season (Entry &amp; Boat)</del>	<del>62.00</del>		
Boat Inspection Fee	6.00	6.00	6.00

CARTOP BOAT LAUNCH (Float Tube, Kayak, Canoe, Scull)			
Daily	4.00	4.00	4.00
Season (Entry and Cartop Launch)	124.00	124.00	124.00
<del>3-Month Season (Entry and Cartop Launch)</del>	<del>41.00</del>		

FISHING ACCESS			
Daily	<del>5.00</del>	<u>6.00</u>	6.00

GROUP PICNIC			
Large Sites (Oaks) daily	<del>260.00</del>	<u>300.00</u>	300.00
Large Sites (Pines) daily	<del>150.00</del>	<u>200.00</u>	200.00

GAZEBO	<del>60.00</del>	<u>90.00</u>	90.00
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TOWING	50.00	50.00	50.00
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## RECREATION USE FEES FOR 2020 & 2021

January – December 2020

January – December 2021

EFFECTIVE 01/01/20

### **SAN PABLO RECREATION AREA (continued)**

Current  
CY19

Proposed  
CY20

Proposed  
CY21

#### **VISITOR CENTER & DECK RENTAL**

Weekday Evening Visitor Center & Deck  
(minimum charge for up to 3 hours)

\$250.00

\$250.00

\$250.00

Extra hours

70.00

70.00

70.00

Weekend Evening Visitor Center & Deck  
(minimum charge for up to 5 hours)

400.00

400.00

400.00

Extra hours

70.00

70.00

70.00

Evening Event Cleaning and Damage  
Deposit

Events ending before 7:00 p.m.

150.00

150.00

150.00

Events ending after 7:00 p.m.

350.00

350.00

350.00

#### **WEEKDAY VISITOR CENTER & DECK (8:00 a.m. - 4:00 p.m.)**

200.00

200.00

200.00

2 consecutive days

350.00

350.00

350.00

3 consecutive days

500.00

500.00

500.00

Daytime Event Cleaning and Damage

125.00

125.00

125.00

Deposit



**RECREATION USE FEES FOR 2020 & 2021**  
**January – December 2020**  
**January – December 2021**  
**EFFECTIVE 01/01/20**

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**SAN PABLO RESERVOIR – Discounts, Special Programs, Limitations**

Concessionaire Employees receive free entrance to and use of rental boats during off-season hours, a 20% discount on food and merchandise. The discount is limited to one free vehicle entry and one free boat rental per employee per day. To qualify, a concession employee must work a minimum of 20 hours per week, Sunday through Saturday.

Concessionaire and/or District may provide free entry and use of rental boats for disadvantaged groups (e.g., disabled, senior, youth, veteran), and for media to promote the recreation area.

Concessionaire or District can issue return coupons for free entry or camping for dissatisfied customers.

Each of the daily charges, including the fishing access permit, shall be valid and effective for the calendar day upon which the charge was made, from the time the park opens until it closes each day.

Groups participating in volunteer District facility improvement programs receive 50% discount on entry fees.

Senior/Disabled receive 50% discount on seasonal and 3-month entry and boat launch fees, and on non-holiday weekday boat rentals. Senior rates are for individuals with a driver's license or ID showing age 62 or older.

Distinguished Veteran Pass holders receive free day use and boat launch and 50% discount on non-holiday weekday boat rentals.

Unless determined otherwise, the recreation season is mid-February through November (dates selected by concessionaire with District approval).



RECREATION USE FEES FOR 2020 & 2021  
January – December 2020  
January – December 2021  
EFFECTIVE 01/01/20

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**WATERSHED TRAIL SYSTEM**

Current  
CY19

Proposed  
CY20

Proposed  
CY21

**WATERSHED TRAILS**

Daily Permit	\$3.00	\$3.00	\$3.00
Annual Permit	10.00	10.00	10.00
Three-Year Permit	20.00	20.00	20.00
Five-Year Permit	30.00	30.00	30.00





## **Section 12**

# **Non-registering and Unreadable Meters and Meter Protection**

**FY20**





SECTION 12

NON-REGISTERING AND UNREADABLE METERS AND METER

PROTECTION~~MAINTENANCE~~

- A. Subject to and consistent with Section 23, customers shall not attach any device or equipment to District property in the meter box without prior District authorization. Where any device or equipment has been attached to District property in the meter box without prior District authorization, reasonable efforts will be made to notify the customer to correct the condition. The customer may be charged reasonable charges to clear unauthorized devices or equipment found on District property in the meter box, which will be added to the customer's water bill. The District has the right to discontinue the service if the condition is not corrected. Where service is turned off for such cause, the District may require payment of a restoration fee as provided for in the Schedule of Rates and Charges.
- B. Subject to and consistent with Section 23, customers shall refrain from taking any action or constructing any equipment, structures or facilities on District property that may interfere with or impede District's ability to operate and maintain the facilities necessary to provide water service to the premises, including the meter, lateral, water main and appurtenances. Where a meter cannot be read or maintained without undue difficulty because of an obstruction, reasonable efforts will be made to notify the customer to correct the condition. The customer may be charged an obstructed meter fee and/or assessed other reasonable charges to clear obstructions which will be added to the customer's water bill. The District has the right to discontinue the service if the condition is not corrected. Where service is turned off for such cause, the District may require payment of a restoration fee as provided for in the Schedule of Rates and Charges.
- C. Bills for service will be based on an estimate if a meter fails to register the volume of water consumed or cannot be read due to safety and access issues. In estimating consumption, due consideration will be given to past use and fluctuations in usage caused by seasonal changes or known service interruptions.

~~Where a meter cannot be read or maintained without undue difficulty because of an obstruction, reasonable efforts will be made to notify the customer to correct the condition. The customer may be charged an obstructed meter fee and/or assessed other reasonable charges to clear obstructions which will be added to the customer's water bill. The District has the right to discontinue the service if the condition is not corrected. Where service is turned off for such cause, the District may require payment of a restoration fee as provided for in the Schedule of Rates and Charges.~~



**Wastewater Department**

**Schedule A**

**Rates for Treatment Service**

**FY20**





## SCHEDULE A – WASTEWATER DEPARTMENT RATES FOR TREATMENT SERVICE

EFFECTIVE ~~07/01/18~~ 07/01/19

Current

I. Unit Treatment Rates (for permit accounts)

Flow (\$ per unit, 1 unit = 100 cubic feet = 748 gallons)

Chemical Oxygen Demand~~f~~ (\$ per pound of discharge)

Total Suspended Solids (\$ per pound of discharge)

Unit treatment rates for Flow, Chemical Oxygen Demand ~~filtered~~-(COD~~f~~), Total Suspended Solids (TSS) and a Service Charge are applied to all users unless otherwise indicated.

II. Residential Monthly Charges

(6514 Multi-Family under 5 dwelling units & 8800 Single-Family)

A. Service Charge (per account)

B. Strength Charge (per dwelling unit)

Minimum monthly charge per household

C. Plus: A flow charge of \$~~1.20~~1.27 per unit~~cubic ft.~~ applied to a maximum of 9 units (per dwelling unit)

Minimum monthly charge at 0 units

Maximum monthly charge at 9 units

D. Total Residential Charge (A+B+C above)<sup>1</sup>

Minimum monthly charge (for 8800)

Maximum monthly charge (for 8800)

Average monthly charge (for 8800)

<sup>1</sup>Does not include SF Bay Residential Pollution Prevention Fee

III. Non-Residential Charges

A. Monthly service charge (per account)

B. Treatment charge including flow processing (per unit~~100 cubic feet~~ of sewage discharge)

2010 Meat Products

2011 Slaughterhouses

2020 Dairy Product Processing

2030 Fruit and Vegetable Canning

2040 Grain Mills





## SCHEDULE A – WASTEWATER DEPARTMENT RATES FOR TREATMENT SERVICE

EFFECTIVE ~~07/01/18~~ 07/01/19

	Current	
2050 Bakeries (including Pastries)	<del>\$8.82</del>	<u>\$9.65</u>
2060 Sugar Processing	<del>4.83</del>	<u>5.53</u>
2077 Rendering Tallow	<del>15.80</del>	<u>16.74</u>
2080 Beverage Manufacturing & Bottling	<del>3.74</del>	<u>4.19</u>
2090 Specialty Foods Manufacturing	<del>15.99</del>	<u>18.05</u>
2600 Pulp and Paper Products	<del>4.45</del>	<u>4.79</u>
2810 Inorganic Chemicals Mfr.	<del>5.93</del>	<u>6.16</u>
2820 Synthetic Material Manufacturing	<del>1.36</del>	<u>1.44</u>
2830 Drug Manufacturing	<del>2.79</del>	<u>3.11</u>
2840 Cleaning and Sanitation Products	<del>5.64</del>	<u>6.30</u>
2850 Paint Manufacturing	<del>11.01</del>	<u>12.14</u>
2893 Ink and Pigment Manufacturing	<del>3.88</del>	<u>4.39</u>
3110 Leather Tanning and Finishing	<del>15.07</del>	<u>16.77</u>
3200 Earthenware Manufacturing	<del>3.24</del>	<u>3.40</u>
3300 Primary Metals Manufacturing	<del>2.56</del>	<u>2.69</u>
3400 Metal Products Fabricating	<del>1.47</del>	<u>1.57</u>
3410 Drum and Barrel Manufacturing	<del>15.21</del>	<u>17.08</u>
3470 Metal Coating	<del>1.60</del>	<u>1.71</u>
4500 Air Transportation	<del>2.07</del>	<u>2.25</u>
4951 Groundwater Remediation	<del>1.24</del>	<u>1.28</u>
5812 Food Service Establishments	<del>5.47</del>	<u>5.83</u>
6513 Apartment Buildings (5 or more <u>dwelling</u> units)	<del>2.73</del>	<u>2.83</u>
7000 Hotels, Motels with Food Service	<del>3.96</del>	<u>4.19</u>
7210 Commercial Laundries	<del>3.46</del>	<u>3.77</u>
7215 Coin Operated Laundromats	<del>2.60</del>	<u>2.83</u>
7218 Industrial Laundries	<del>9.55</del>	<u>10.73</u>
7300 Laboratories	<del>1.87</del>	<u>2.02</u>
7542 Automobile Washing and Polishing	<del>2.48</del>	<u>2.68</u>
8060 Hospitals	<del>2.42</del>	<u>2.57</u>
8200 Schools	<del>1.76</del>	<u>1.89</u>
All Other Business Classification Code (includes dischargers of only segregated domestic wastes from sanitary conveniences)	<del>2.73</del>	<u>2.83</u>



## SCHEDULE A – WASTEWATER DEPARTMENT RATES FOR TREATMENT SERVICE

EFFECTIVE ~~07/01/18~~ 07/01/19

### Multi-Use Food Service Establishments and Domestic Waste Accounts

Accounts identified by EBMUD where there ~~is~~are one or more food service establishments or bakeries sharing the water meter with establishments or operations with only domestic waste discharges. These accounts are assigned an MT code based on the percentage split of the discharge from the food service establishment operations or bakeries and domestic waste. The unit treatment charge for each MT Code is calculated from the food service establishment or bakeries treatment rate and the domestic waste treatment rate.

MT Code		Current	
A	0-9% Food, 91-100% Domestic	<del>\$2.73</del>	<u>\$2.830</u>
B	10-19% Food, 81-90% Domestic	<del>3.00</del>	<u>3.130</u>
C	20-29% Food, 71-80% Domestic	<del>3.28</del>	<u>3.430</u>
D	30-39% Food, 61-70% Domestic	<del>3.55</del>	<u>3.730</u>
E	40-49% Food, 51-60% Domestic	<del>3.83</del>	<u>4.030</u>
F	50-59% Food, 41-50% Domestic	<del>4.10</del>	<u>4.330</u>
G	60-69% Food, 31-40% Domestic	<del>4.37</del>	<u>4.630</u>
H	70-79% Food, 21-30% Domestic	<del>4.65</del>	<u>4.930</u>
I	80-89% Food, 11-20% Domestic	<del>4.92</del>	<u>5.230</u>
J	90-99% Food, 1-10% Domestic	<del>5.20</del>	<u>5.530</u>
K	0-9% Bakery, 91-100% Domestic	<del>2.73</del>	<u>2.830</u>
L	10-19% Bakery, 81-90% Domestic	<del>3.34</del>	<u>3.512</u>
M	20-29% Bakery, 71-80% Domestic	<del>3.95</del>	<u>4.194</u>
N	30-39% Bakery, 61-70% Domestic	<del>4.56</del>	<u>4.876</u>
O	40-49% Bakery, 51-60% Domestic	<del>5.17</del>	<u>5.558</u>
P	50-59% Bakery, 41-50% Domestic	<del>5.78</del>	<u>6.240</u>
Q	60-69% Bakery, 31-40% Domestic	<del>6.38</del>	<u>6.922</u>
R	70-79% Bakery, 21-30% Domestic	<del>6.99</del>	<u>7.604</u>
S	80-89% Bakery, 11-20% Domestic	<del>7.60</del>	<u>8.286</u>
T	90-99% Bakery, 1-10% Domestic	<del>8.21</del>	<u>8.968</u>
Minimum Monthly Treatment Charge:			
6513	Apartment Buildings (5 or more units)	<del>\$48.27</del>	<u>\$43.57</u>
	All Others	<del>6.12</del>	<u>7.02</u>



**Wastewater Department**

**Schedule B**

**Wet Weather Facilities Charge**

**FY20**





**SCHEDULE B ~~(Formerly Schedule F)~~ – WASTEWATER DEPARTMENT  
WET WEATHER FACILITIES CHARGE**

EFFECTIVE ~~07/01/18~~ 07/01/19

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Annual Charge Collected on Property Tax Bill<sup>1</sup>

TYPE	RATE
Small Lot (0 - 5,000 sq. ft.)	\$ <del>103.74</del> <u>111.24</u>
Medium Lot (5,001 – 10,000 sq. ft.)	\$ <del>162.06</del> <u>173.78</u>
Large Lot (> 10,000 sq. ft.)	\$ <del>370.44</del> <u>397.20</u>

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<sup>1</sup> The Wet Weather Facilities Charge for entities that are exempt from property taxes (e.g., public agencies) is collected through the District's billing process.

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**Wastewater Department**

**Schedule C**

**Industrial Permit Fees**

**FY20**





## SCHEDULE C – WASTEWATER DEPARTMENT INDUSTRIAL PERMIT FEES

EFFECTIVE ~~07/01/18~~07/01/19

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PERMIT TYPE	ANNUAL FEE
Wastewater Discharge Permit	\$ <del>2,700</del> <u>2,810</u>
Estimation Permit	\$ <del>1,015</del> <u>1,060</u>
Limited Term Discharge Permit	\$ <del>2,500</del> <u>2,570</u>



# **Wastewater Department**

## **Schedule D**

### **Other Fees**

**FY20**





## SCHEDULE D – WASTEWATER DEPARTMENT OTHER FEES

EFFECTIVE ~~07/01/18~~ 07/01/19

TYPE	RATE
SF Bay Commercial Pollution Prevention Fee	\$5.48/month <sup>1</sup>
SF Bay Residential Pollution Prevention Fee	\$0.20/month per dwelling unit <sup>2</sup>
Monitoring Fees	<del>\$1,430</del> <u>\$1,490</u>
Violation Follow-Up Fees	
Stage 1	<del>\$670</del> <u>\$700</u>
Stage 2	<del>\$1,410</del> <u>\$1,490</u> + Testing Fees <sup>3</sup>
Stage 3	<del>\$2,950</del> <u>\$3,070</u> + Testing Fees <sup>3</sup>
Private Sewer Lateral Compliance Fees	
Compliance Certificate <sup>4</sup>	<del>\$250</del> <u>\$260</u>
Time Extension Certificate	<del>\$400</del> <u>\$110</u>
Inspection Reschedule	<del>\$73</del> <u>\$80</u>
Extra Lateral or Additional Verification Test	<del>\$66</del> <u>\$70</u> per lateral
Off-Hours Verification	<del>\$200</del> <u>\$210</u> for 2.5 hours
<u>PSL Violation Follow-Up</u> <del>Non-Compliance</del> – Initial Fee	<del>\$350</del> <u>\$370</u>
<u>PSL Violation Follow-Up</u> <del>Non-Compliance</del> – Monthly Fee	<del>\$87</del> <u>\$100</u>

<sup>1</sup> SF Bay Commercial Pollution Prevention Fee applicable to all non-residential accounts.

<sup>2</sup> SF Bay Residential Pollution Prevention Fee applicable to all residential accounts. Fee will be charge per dwelling unit up to five dwelling units.

<sup>3</sup> Violation follow-up fees do not include required testing. Testing fees will be charged in accordance with Schedule E Wastewater Department Testing Fees.

<sup>4</sup> Compliance Certificate Fee may be assessed for performance of a Verification Test that results in issuance of a new Compliance Certificate or annotation of an existing Compliance Certificate.





# **Wastewater Department**

## **Schedule E**

### **Testing Fees**

**FY20**





## SCHEDULE E – WASTEWATER DEPARTMENT TESTING FEES

EFFECTIVE ~~07/01/13~~ 07/01/19

LABORATORY TEST CHARGES	FEE	METHOD
Arsenic	\$120	SM3144-B-2009
Cadmium	70	EPA 200.7
Chromium	70	EPA 200.7
Copper	70	EPA 200.7
Iron	70	EPA 200.7
Lead	70	EPA 200.7
Mercury: Cold Vapor	<del>120</del> \$142	EPA 245.1
Nickel	70	EPA 200.7
Silver	70	EPA 200.7
Zinc	70	EPA 200.7
<del>ICP Metals Scan* (including metals digestion)</del>	<del>115</del>	<del>EPA 200.7</del>
Chemical Oxygen Demand: Filtered (CODF)	60	SM5220 D-1997
<u>Chemical Oxygen Demand (COD)</u>	<u>60</u>	<u>SM5220 D-1997</u>
Total Suspended Solids (TSS)	<del>45</del> 40	SM2540 D-1997
Cyanide (Amenable to Chlorination)	<del>115</del> 132	SM4500 CN- <del>HG</del>
Cyanide (Total)	<del>100</del> 126	SM4500 CN- C, E-1999
<u>EPA 200.7 (Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Nickel, Silver, Zinc, &amp; ICP Metals Scan* (including metals digestion))</u>	<u>224</u>	<u>EPA 200.7</u>
EPA 608 (Organochlorine pesticides & PCBs)	<del>345</del> 447	EPA 608
EPA 608 (PCBs only)	<del>320</del> 447	EPA 608: PCBs ONLY
EPA 624 (Volatile Organics)	<del>255</del> 219	EPA 624
EPA 624 (ESD/R2 (Volatile Organics))	<del>255</del> 219	EPA 624 (EBMUD Modified)
EPA 625 (Semi-volatile Organics)	<del>400</del> 522	EPA 625
Oil & Grease: Gravimetric (EPA 1664)	<del>110</del> 159	EPA 1664 <u>A</u>
Oil & Grease: Hydrocarbons (EPA 1664)	<del>140</del> 198	EPA 1664 <u>A</u>
pH	<del>25</del> 42	SM4500-H- <sup>+</sup> <del>B-2000</del>
Field Data (pH)	<del>14</del> 28	<del>SM450-H + B-2000</del>
Phenols: total	<del>115</del> 139	EPA 420.1
<del>PCBs (SFEI 40 congeners)</del>	<del>700</del>	<del>EPA 1668C</del>

\*ICP Metal scan charge is not per element



# **Wastewater Department**

## **Schedule F**

### **Rates for Resource Recovery Material Treatment**

**FY20**







## SCHEDULE F<sup>1</sup> – WASTEWATER DEPARTMENT RATES FOR RESOURCE RECOVERY MATERIAL TREATMENT

EFFECTIVE ~~07/01/18~~ 07/01/19

MATERIAL TYPE	RATE <sup>2</sup>
<u>Permit Fee</u>	<u><del>\$300</del>350 (per year)</u>
Septage	\$0.07/gal
Fats, Oil and Grease	<u>Up to <del>\$0.08</del>0.12/gal</u>
Process Water	\$0.05/gal
Brine	<u>Variable with Total Dissolved Solid (TDS)</u> <del>\$0.04</del> 0.05/gal ≤ 50,000 mg/l TDS \$0.06/gal 50,001 – 100,000 mg/l TDS \$0.09/gal > 100,000 mg/l TDS
Sludge	<u>Variable with % Total Solids (TS)</u> <del>\$0.05</del> 0.06/gal up to 3% TS Plus \$0.005/gal per %TS for TS between 3% to 20%
Clean Liquid Food Waste Slurry <sup>3</sup>	<u>Variable with % Total Solids (TS)</u> \$0.04/gal up to 3% TS Plus <u>\$0.005/gal</u> per % TS for TS between 3% to 20%
Liquid Organic Material	<u>Up to <del>\$0.04</del>0.06/gal</u>
Protein Material	<u>Up to <del>\$0.08</del>0.10/gal</u>
Solid Organic Material	\$30/ton – <del>\$65</del> 75/ton <sup>4</sup>

<sup>1</sup>Payment collection for all Resource Recovery accounts shall follow the payment collection provisions contained in Section 13, Payment of Bills in the Regulations Governing Water Service to the Customers of EBMUD and Items C and K, Returned Payment Charge and Late Payment Penalty and Interest, of Schedule C of the Water System Rates and Charges.

<sup>2</sup>For special accommodations, additional charges for actual personnel costs, equipment costs, and lab costs associated with the special accommodation will apply. Special accommodations include services provided by the District above and beyond what is typical, such as evaluation and testing of a unique material stream, special equipment to receive and process material, accommodations for large volumes, special off-hour deliveries that require additional staff support, or special treatment requirements.

<sup>3</sup>Clean liquid food waste slurry must behave as a liquid and contain minimal amounts of contamination. Food waste slurries that require additional contamination removal do not qualify for this rate.

<sup>4</sup>Based on treatment costs (residual solids dewatering and disposal), gas production, volumes and other costs or benefits to the District.



**Wastewater Department**

**Schedule G**

**Capacity Fees**

**FY20**





## SCHEDULE G – WASTEWATER DEPARTMENT CAPACITY FEES

EFFECTIVE ~~08/13/18~~ 07/01/19

### A. Wastewater Capacity Fee for Non-Permit Applicants

For applicants who are not required to obtain a Wastewater Discharge Permit the Wastewater Capacity Fee (WCF) is based on the applicant's estimated annual wastewater discharge flow and strength.

1. Residential WCF (dollars per dwelling unit)<sup>1,2</sup> \$2,750

2. Non-Residential WCF for meters 1-1/2 inches and smaller (dollars per connection)<sup>2</sup>

For service connections with meters 1-1/2 inches and smaller, the District reserves the right to request specific water use information from the applicant to determine applicant's estimated annual wastewater discharge flow and strength. The District reserves the right to determine the appropriate meter size and wastewater strength category to meet the applicant's estimated annual wastewater discharge flow and strength and assess the WCF using this Section (A)(2). If the District determines that the applicant's estimated annual wastewater discharge flow exceeds 1,390 gallons per day (gpd) or that a meter larger than 1-1/2 inches is required to meet the applicant's needs, this Section (A)(2) no longer applies. For estimated annual wastewater discharge flows that exceed 1,390 gpd and meters larger than 1-1/2 inches, Section (A)(3) shall be used to determine the WCF based on the applicant's estimated annual wastewater discharge flow and strength category. The District's decision shall be final.

<u>Strength Category</u>	<u>Meter Size</u>		
	<u>5/8 inch</u>	<u>3/4 &amp; 1 inch</u>	<u>1-1/2 inch</u>
<u>Low</u>	<u>\$4,090</u>	<u>\$10,760</u>	<u>\$20,960</u>
<u>Medium</u>	<u>8,280</u>	<u>21,750</u>	<u>42,390</u>
<u>High</u>	<u>16,210</u>	<u>42,610</u>	<u>83,020</u>

3. Non-Residential (meter size over 1-1/2 inch)<sup>2,3,4</sup>

The WCF for service connections with meters larger than 1-1/2 inch shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the per CCF WCF charge to the annual wastewater discharge flow calculated by the District for the appropriate strength category for the service connection.

<u>Strength Category</u>	<u>\$/Ccf/year</u>
<u>Low</u>	<u>\$31.01</u>
<u>Medium</u>	<u>62.70</u>
<u>High</u>	<u>122.81</u>

In no instance will the WCF for a meter larger than 1-1/2 inches be less than the 1-1/2 inch price for a given strength category.



## SCHEDULE G – WASTEWATER DEPARTMENT CAPACITY FEES

EFFECTIVE ~~08/13/18~~ 07/01/19

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If the District has determined based on the water use information furnished that a meter larger than 1-1/2 inches is appropriate or if the estimated annual wastewater discharge exceeds 1,390 gpd, the WCF calculated from the District's estimate of annual wastewater discharge flow shall apply irrespective of the arrangement of the water metering or meter size at the premises.

### **Business Classification Code (BCC) Category: Low Strength**

<u>Code</u>	<u>Description</u>
<u>4500</u>	<u>Air Transportation</u>
<u>7542</u>	<u>Automobile Washing and Polishing</u>
<u>7215</u>	<u>Coin Operated Laundromats</u>
<u>3200</u>	<u>Earthenware Manufacturing</u>
<u>8060</u>	<u>Hospitals</u>
<u>7000</u>	<u>Hotels, Motels with Food Service</u>
<u>7300</u>	<u>Laboratories</u>
<u>3470</u>	<u>Metal Coating</u>
<u>3400</u>	<u>Metal Products Fabricating</u>
<u>3300</u>	<u>Primary Metals Manufacturing</u>
<u>8200</u>	<u>Schools</u>
<u>2820</u>	<u>Synthetic Material Manufacturing</u>
	<u>All Other Business Classification Codes</u>
	<u>(includes dischargers of only segregated</u>
	<u>domestic wastes from sanitary</u>
	<u>conveniences)</u>

### **BCC Category: Medium Strength**

<u>Code</u>	<u>Description</u>
<u>2080</u>	<u>Beverage Manufacturing &amp; Bottling</u>
<u>2840</u>	<u>Cleaning and Sanitation Products</u>
<u>7210</u>	<u>Commercial Laundries</u>
<u>2830</u>	<u>Drug Manufacturing</u>
<u>5812</u>	<u>Food Service Establishments</u>
<u>2030</u>	<u>Fruit and Vegetable Canning</u>
<u>2040</u>	<u>Grain Mills</u>
<u>2893</u>	<u>Ink and Pigment Manufacturing</u>
<u>2810</u>	<u>Inorganic Chemicals Manufacturing</u>
<u>2600</u>	<u>Pulp and Paper Products</u>
<u>2011</u>	<u>Slaughterhouses</u>



## SCHEDULE G – WASTEWATER DEPARTMENT CAPACITY FEES

EFFECTIVE ~~08/13/18~~07/01/19

### BCC Category: High Strength

<u>Code</u>	<u>Description</u>
<u>2050</u>	<u>Bakeries (including Pastries)</u>
<u>2020</u>	<u>Dairy Product Processing</u>
<u>3410</u>	<u>Drum and Barrel Manufacturing</u>
<u>7218</u>	<u>Industrial Laundries</u>
<u>3110</u>	<u>Leather Tanning and Finishing</u>
<u>2010</u>	<u>Meat Products</u>
<u>2850</u>	<u>Paint Manufacturing</u>
<u>2077</u>	<u>Rendering Tallow</u>
<u>2090</u>	<u>Specialty Foods Manufacturing</u>
<u>2060</u>	<u>Sugar Processing</u>

~~Residential (\$/dwelling unit)<sup>1,-5</sup>~~ ~~\$2,610<sup>2</sup>~~

~~Non-Residential (\$/ccf/mo)<sup>3,-4,-5</sup>~~

<del>2010</del>	<del>Meat Products</del>	<del>\$1,283</del>
<del>2011</del>	<del>Slaughterhouses</del>	<del>1,227</del>
<del>2020</del>	<del>Dairy Product Processing</del>	<del>1,009</del>
<del>2030</del>	<del>Fruit and Vegetable Canning</del>	<del>813</del>
<del>2040</del>	<del>Grain Mills</del>	<del>810</del>
<del>2050</del>	<del>Bakeries (including Pastries)</del>	<del>1,393</del>
<del>2060</del>	<del>Sugar Processing</del>	<del>801</del>
<del>2077</del>	<del>Rendering Tallow</del>	<del>2,408</del>
<del>2088</del>	<del>Beverage Manufacturing &amp; Bottling</del>	<del>610</del>
<del>2090</del>	<del>Specialty Foods Manufacturing</del>	<del>2,593</del>
<del>2600</del>	<del>Pulp and Paper Products</del>	<del>696</del>
<del>2810</del>	<del>Inorganic Chemicals Manufacturing</del>	<del>892</del>
<del>2820</del>	<del>Synthetic Material Manufacturing</del>	<del>217</del>
<del>2830</del>	<del>Drug Manufacturing</del>	<del>456</del>
<del>2840</del>	<del>Cleaning and Sanitation Products</del>	<del>911</del>
<del>2850</del>	<del>Paint Manufacturing</del>	<del>1,748</del>
<del>2893</del>	<del>Ink and Pigment Manufacturing</del>	<del>639</del>
<del>3110</del>	<del>Leather Tanning and Finishing</del>	<del>2,410</del>
<del>3200</del>	<del>Earthenware Manufacturing</del>	<del>497</del>
<del>3300</del>	<del>Primary Metals Manufacturing</del>	<del>396</del>
<del>3400</del>	<del>Metal Products Fabricating</del>	<del>236</del>
<del>3410</del>	<del>Drum and Barrel Manufacturing</del>	<del>2,454</del>
<del>3470</del>	<del>Metal Coating</del>	<del>255</del>
<del>4500</del>	<del>Air Transportation</del>	<del>332</del>





## SCHEDULE G – WASTEWATER DEPARTMENT CAPACITY FEES

EFFECTIVE ~~08/13/18~~ 07/01/19

<del>5812</del>	<del>Food Service Establishments</del>	<del>845</del>
<del>7000</del>	<del>Hotels, Motels with Food Service</del>	<del>611</del>
<del>7210</del>	<del>Commercial Laundries</del>	<del>551</del>
<del>7215</del>	<del>Coin-Operated Laundromats</del>	<del>416</del>
<del>7218</del>	<del>Industrial Laundries</del>	<del>1,546</del>
<del>7300</del>	<del>Laboratories</del>	<del>300</del>
<del>7542</del>	<del>Automobile Washing and Polishing</del>	<del>395</del>
<del>8060</del>	<del>Hospitals</del>	<del>379</del>
<del>8200</del>	<del>Schools</del>	<del>282</del>
	<del>All Other Business Classification Codes</del>	<del>427</del>
	<del>(includes dischargers of only segregated domestic wastes from sanitary conveniences)</del>	

### B. WCF for Permit Applicants

For applicants who are required to obtain a Wastewater Discharge Permit, the Wastewater Capacity Fee (WCF) is based on the applicant's estimated annual wastewater discharge flow and strength concentrations listed on the applicant's discharge permit at the time of application.

Permit Accounts 2, 3, 4, 5, 6

Flow (\$/ccf/ <del>mo</del> <u>year</u> )	<del>\$191.93</del> <u>13.85</u>
Chemical Oxygen Demand <del>Filtered</del> -(CODE) (\$/lb/ <del>mo</del> <u>year</u> )	<del>59.59</del> <u>1.45</u>
Total Suspended Solids (TSS) (\$/lb/ <del>mo</del> <u>year</u> )	<del>75.92</del> <u>6.66</u>

<sup>1</sup>Includes BCC 6513 Apartment Buildings, 6514 Multi-Family and 8800 Single Family.

<sup>2</sup>~~Residential fee is calculated as follows:~~

Flow:	6.7	*	\$191.93	=	\$1,286
CODE:	7.9	*	59.59	=	471
TSS:	11.29	*	75.92	=	<u>857</u>
					\$2,614
					<del>Rounded to</del>
					<del>\$2,610</del>

<sup>2</sup>A credit may be provided for existing services. Where a new service will replace one or more existing or prior services to a premise and a WCF was paid, a credit will be applied to the new WCF based on the WCF previously paid. The value of the WCF credit will be determined using the flow and strength assumed in the original WCF and updated using the current WCF schedule (for flow and strength). For premises on which no WCF was paid, customers will be granted a credit for the existing use. For existing meters 1-1/2 inches and smaller, the WCF credit will be calculated based on the current WCF schedule for the existing meter size and strength. For existing meters over 1-1/2 inches, the WCF credit will be calculated based on the most recent 10



## SCHEDULE G – WASTEWATER DEPARTMENT CAPACITY FEES

EFFECTIVE ~~08/13/18~~07/01/19

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years of usage and strength for the existing meter, provided that this value is not less than the value indicated in the schedule for the 1-1/2 inch meter. If the account is subject to an Estimation Permit, the usage credit will consider diversion.

<sup>3</sup>Capacity Fee is based on the anticipated ~~maximum monthly~~annual flow contributions and the average wastewater strength measured or assigned for each classification of customer. The District may review the actual flow and strength within 24 months, once the business is fully established to verify the estimated demand for wastewater capacity. The review may result in the assessment of additional capacity fees if the actual flow and strength exceeds the original estimate.

<sup>4</sup>For non-residential customers with projected treatment revenues equal to or greater than 0.1% of the total District treatment revenue, the calculated capacity fee will be reduced by a Rate Stabilization Factor of 25%. Projected treatment revenue will be based on permit conditions at the time of application or on average wastewater strength measured for each classification of customer if a permit is not required for discharge. Total District treatment revenue will be based on the budgeted fiscal year amount at the time of application.

~~<sup>5</sup>A credit may be provided for existing services. Where a new service will replace one or more existing or prior services to a premise and a capacity fee was paid, a credit will be applied to the new capacity fee based on the previous capacity unit paid or if the existing service had not paid a capacity fee (for accounts in service prior to July 1, 1987) then the credit is based on historic use over the preceding 10 year period.~~

~~<sup>56</sup>~~Total fee is a summation of the unit rates for flow, COD~~F~~, and TSS ~~times~~applied to the permit conditions at the time of application.



# **Wastewater Department**

## **Schedule H**

### **Wastewater Interceptor Connection Review, Coordination and Inspection Fee**

**FY20**





**SCHEDULE H – WASTEWATER DEPARTMENT  
WASTEWATER INTERCEPTOR CONNECTION REVIEW,  
COORDINATION AND INSPECTION FEE**

EFFECTIVE ~~07/01/05~~ 07/01/19

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TYPE	RATE
<del>Plan Review and Project Coordination</del>	<del>\$1,750</del>
<del>Construction Inspection</del>	<del>2,300</del>
<u>Plan Review, Project Coordination and Construction Inspection</u>	<u>\$11,500</u>
<u>Each Additional Connection<sup>1</sup></u>	<u>9,400</u>

<sup>1</sup>For additional connections submitted and constructed under the same project with the same design and pipe sizes









## **RECOMMENDED SCHEDULES OF RATES, CHARGES AND FEES**

**FY21**

### Water System

Schedule A – Rate Schedule for Water Service

### Wastewater System

Schedule A – Rates for Treatment Service

Schedule B – Wet Weather Facilities Charge

Schedule C – Industrial Permit Fees

Schedule D – Other Fees



**Schedule A**

**Rate Schedule for Water Service**

**FY21**





## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/19~~ 07/01/20

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### A. ONE MONTH BILLING

Bills for all metered services shall consist of:

FIRST – A WATER SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch	<del>\$26.23</del>	<u>\$27.87</u>
1 inch	<del>39.62</del>	<u>42.10</u>
1-1/2 inch	<del>73.11</del>	<u>77.68</u>
2 inch	<del>113.27</del>	<u>120.35</u>
3 inch	<del>220.41</del>	<u>234.19</u>
4 inch	<del>340.94</del>	<u>362.25</u>
6 inch	<del>675.67</del>	<u>717.90</u>
8 inch	<del>1,077.40</del>	<u>1,144.74</u>
10 inch	<del>1,546.05</del>	<u>1,642.68</u>
12 inch	<del>2,148.66</del>	<u>2,282.95</u>
14 inch	<del>2,751.21</del>	<u>2,923.16</u>
16 inch	<del>3,487.70</del>	<u>3,705.68</u>
18 inch	<del>4,224.17</del>	<u>4,488.18</u>

The service charge for a special type of meter or for a battery of meters installed on one service in lieu of one meter will be based on the size of a single standard meter of equivalent capacity as determined by the District.

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.



## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/19~~ 07/01/20

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on one month meter readings for all water delivered per unit of water (1 unit = 100 cu. ft. = 748 gallons):

<u>Potable Water Service</u>	WATER FLOW CHARGE PER <u>UNIT</u> <del>100 CU. FT.</del>	
Single Family Residential Accounts:		
For the first 172 gpd	<del>\$4.00</del>	<u>\$4.25</u>
For all water used in excess of 172 gpd, up to 393 gpd	<del>5.51</del>	<u>5.85</u>
For all water used in excess of 393 gpd	<del>7.27</del>	<u>7.72</u>
Multiple Family Residential Accounts:		
For all water used	<del>5.66</del>	<u>6.01</u>
All Other Water Use:		
For all water used	<del>5.63</del>	<u>5.98</u>

All individually metered multi-family dwelling units or individually metered mobile home residential units that receive District service shall be billed at the single family residential rate.

<u>Nonpotable/Recycled Water Service</u>	WATER FLOW CHARGE PER <u>UNIT</u> <del>100 CU. CT.</del>	
For all water used	<del>\$4.39</del>	<u>\$4.66</u>





## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/19~~ 07/01/20

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### B. TWO MONTH BILLING

Bills for all metered services shall consist of:

FIRST – A WATER SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch	<del>\$52.46</del>	<u>\$55.74</u>
1 inch	<del>79.24</del>	<u>84.20</u>
1-1/2 inch	<del>146.22</del>	<u>155.36</u>
2 inch	<del>226.54</del>	<u>240.70</u>
3 inch	<del>440.82</del>	<u>468.38</u>
4 inch	<del>681.88</del>	<u>724.50</u>
6 inch	<del>1,351.34</del>	<u>1,435.80</u>
8 inch	<del>2,154.80</del>	<u>2,289.48</u>
10 inch	<del>3,092.10</del>	<u>3,285.36</u>
12 inch	<del>4,297.32</del>	<u>4,565.90</u>
14 inch	<del>5,502.42</del>	<u>5,846.32</u>
16 inch	<del>6,975.40</del>	<u>7,411.36</u>
18 inch	<del>8,448.34</del>	<u>8,976.36</u>

The water service charge for a special type of meter or for a battery of meters installed on one service in lieu of one meter will be based on the size of a single standard meter of equivalent capacity as determined by the District.

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.



## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/19~~ 07/01/20

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on two month meter readings for all water delivered per 1 unit of water (1 unit = 100 cu. ft. = 748 gallons):

<u>Potable Water Service</u>	WATER FLOW CHARGE PER <u>UNIT</u> <del>100 CU. FT.</del>	
Single Family Residential Accounts:		
For the first 172 gpd	<del>\$4.00</del>	<u>\$4.25</u>
For all water used in excess of 172 gpd, up to 393 gpd	<del>5.54</del>	<u>5.85</u>
For all water used in excess of 393 gpd	<del>7.27</del>	<u>7.72</u>
Multiple Family Residential Accounts:		
For all water used	<del>5.66</del>	<u>6.01</u>
All Other Water Use:		
For all water used	<del>5.63</del>	<u>5.98</u>

All individually metered multi-family dwelling units or individually metered mobile home residential units that receive District service shall be billed at the single family residential rate.

<u>Nonpotable/Recycled Water Service</u>	WATER FLOW CHARGE PER <u>UNIT</u> <del>100 CU. CT.</del>	
For all water used	<del>\$4.39</del>	<u>\$4.66</u>

### C. EXCEPTIONS TO TWO MONTH BILLING

Except as provided below, customer accounts shall be subject to bi-monthly meter reading and customer billing schedules

- Accounts for which the average monthly bill is estimated to exceed \$1,500; such accounts will be billed monthly.
- Accounts for which there are reasonable and justifiable customer requests for monthly billing.
- Accounts for which the average monthly bill is estimated to be between \$100 and \$1,500, and the customer service manager recommends monthly billing based on an evaluation of credit and/or collection problems.



## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/19~~ 07/01/20

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### D. PRIVATE FIRE SERVICES

Effective July 1, 2005, the rates for Private Fire Services shall consist of:

FIRST – A MONTHLY SERVICE CHARGE based on the size of a standard meter:

METER SIZE	SERVICE CHARGE AMOUNT	
5/8 and 3/4 inch	<del>\$13.96</del>	<u>\$14.83</u>
1 inch	<del>19.18</del>	<u>20.38</u>
1-1/2 inch	<del>32.16</del>	<u>34.17</u>
2 inch	<del>47.75</del>	<u>50.73</u>
3 inch	<del>89.37</del>	<u>94.96</u>
4 inch	<del>136.16</del>	<u>144.67</u>
6 inch	<del>266.16</del>	<u>282.80</u>
8 inch	<del>422.16</del>	<u>448.55</u>
10 inch	<del>604.14</del>	<u>641.90</u>
12 inch	<del>838.12</del>	<u>890.50</u>
14 inch	<del>1,072.12</del>	<u>1,139.13</u>
16 inch	<del>1,358.14</del>	<u>1,443.02</u>
18 inch	<del>1,644.13</del>	<u>1,746.89</u>

Effective July 1, 1997, when a meter larger than 4 inches is required for a single-family residential customer to maintain adequate water pressure, the maximum service charge amount shall be set at the 4-inch meter level.

SECOND – A WATER FLOW CHARGE FOR WATER DELIVERED based on two-month meter readings for all water delivered per unit~~100 cu. ft.:~~

There shall be no charge for water through such services extinguishing accidental fires, but any water lost through leakage or used in violation of the District's Regulations shall be paid at the rate for general use and may be subject to a penalty as may be established by the District.



## SCHEDULE A – RATE SCHEDULE FOR WATER SERVICE

EFFECTIVE ~~07/01/19~~ 07/01/20

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### E. ELEVATION SURCHARGE

Elevation Designator	AMOUNT PER <u>UNIT</u> <del>100 CU. FT.</del>	
<u>Pressure Zone 1: Elevation Designator</u> 0 and 1	\$0.00	
<u>Pressure Zone 2: Elevation Designator</u> 2 through 5	<del>0.81</del>	<u>0.86</u>
<u>Pressure Zone 3: Elevation Designator</u> 6 and greater	<del>1.68</del>	<u>1.79</u>

The elevation surcharge is determined by the pressure zone in which the service connection is located. Pressure zones are identified by designations that include an elevation designator.

**Wastewater Department**

**Schedule A**

**Rates for Treatment Service**

**FY21**





## SCHEDULE A – WASTEWATER DEPARTMENT RATES FOR TREATMENT SERVICE

EFFECTIVE ~~07/01/19~~ 07/01/20

Current

I. Unit Treatment Rates (for permit accounts)

Flow (\$ per unit, 1 unit = 100 cubic feet = 748 gallons)	<del>\$1.266</del>	<u>\$1.317</u>
Chemical Oxygen Demand (\$ per pound of discharge)	<del>\$0.129</del>	<u>\$0.134</u>
Total Suspended Solids (\$ per pound <u>of discharge</u> )	<del>0.530</del>	<u>0.551</u>

Unit treatment rates for Flow, Chemical Oxygen Demand (COD), Total Suspended Solids (TSS) and a Service Charge are applied to all users unless otherwise indicated.

II. Residential Monthly Charges

(6514 Multi-Family under 5 dwelling units & 8800 Single-Family)

A. Service Charge (per account)	<del>\$7.02</del>	<u>\$7.30</u>
B. Strength Charge (per dwelling unit)	<del>7.31</del>	<u>7.60</u>
Minimum monthly charge per household	<del>14.33</del>	<u>14.90</u>
C. Plus: A flow charge of \$ <del>1.27</del> <u>1.32</u> per unit applied to a maximum of 9 units (per dwelling unit)		
Minimum monthly charge at 0 units	\$0.00	
Maximum monthly charge at 9 units	<del>11.43</del>	<u>11.88</u>
D. Total Residential Charge (A+B+C above) <sup>1</sup>		
Minimum monthly charge (for 8800)	<del>\$14.33</del>	<u>14.90</u>
Maximum monthly charge (for 8800)	<del>25.76</del>	<u>26.78</u>
Average monthly charge (for 8800)	<del>21.95</del>	<u>22.82</u>

<sup>1</sup>Does not include SF Bay Residential Pollution Prevention Fee

III. Non-Residential Charges

A. Monthly service charge (per account)	<del>\$7.02</del>	<u>\$7.30</u>
B. Treatment charge including flow processing (per unit of sewage discharge)		
2010 Meat Products	<del>\$8.90</del>	<u>\$9.24</u>
2011 Slaughterhouses	<del>8.50</del>	<u>8.83</u>
2020 Dairy Product Processing	<del>6.98</del>	<u>7.25</u>
2030 Fruit and Vegetable Canning	<del>5.61</del>	<u>5.83</u>
2040 Grain Mills	<del>5.58</del>	<u>5.80</u>



## SCHEDULE A – WASTEWATER DEPARTMENT RATES FOR TREATMENT SERVICE

EFFECTIVE ~~07/01/19~~07/01/20

	Current	
2050 Bakeries (including Pastries)	<del>\$9.65</del>	<u>\$10.03</u>
2060 Sugar Processing	<del>5.53</del>	<u>5.74</u>
2077 Rendering Tallow	<del>16.74</del>	<u>17.40</u>
2080 Beverage Manufacturing & Bottling	<del>4.19</del>	<u>4.36</u>
2090 Specialty Foods Manufacturing	<del>18.05</del>	<u>18.75</u>
2600 Pulp and Paper Products	<del>4.79</del>	<u>4.98</u>
2810 Inorganic Chemicals Mfr.	<del>6.16</del>	<u>6.40</u>
2820 Synthetic Material Manufacturing	<del>1.44</del>	<u>1.50</u>
2830 Drug Manufacturing	<del>3.11</del>	<u>3.23</u>
2840 Cleaning and Sanitation Products	<del>6.30</del>	<u>6.54</u>
2850 Paint Manufacturing	<del>12.14</del>	<u>12.61</u>
2893 Ink and Pigment Manufacturing	<del>4.39</del>	<u>4.56</u>
3110 Leather Tanning and Finishing	<del>16.77</del>	<u>17.43</u>
3200 Earthenware Manufacturing	<del>3.40</del>	<u>3.53</u>
3300 Primary Metals Manufacturing	<del>2.69</del>	<u>2.80</u>
3400 Metal Products Fabricating	<del>1.57</del>	<u>1.64</u>
3410 Drum and Barrel Manufacturing	<del>17.08</del>	<u>17.74</u>
3470 Metal Coating	<del>1.71</del>	<u>1.77</u>
4500 Air Transportation	<del>2.25</del>	<u>2.34</u>
4951 Groundwater Remediation	<del>1.28</del>	<u>1.34</u>
5812 Food Service Establishments	<del>5.83</del>	<u>6.06</u>
6513 Apartment Buildings (5 or more dwelling units)	<del>2.83</del>	<u>2.94</u>
7000 Hotels, Motels with Food Service	<del>4.19</del>	<u>4.36</u>
7210 Commercial Laundries	<del>3.77</del>	<u>3.92</u>
7215 Coin Operated Laundromats	<del>2.83</del>	<u>2.94</u>
7218 Industrial Laundries	<del>10.73</del>	<u>11.15</u>
7300 Laboratories	<del>2.02</del>	<u>2.11</u>
7542 Automobile Washing and Polishing	<del>2.68</del>	<u>2.79</u>
8060 Hospitals	<del>2.57</del>	<u>2.68</u>
8200 Schools	<del>1.89</del>	<u>1.97</u>
All Other Business Classification Code (includes dischargers of only segregated domestic wastes from sanitary conveniences)	<del>2.83</del>	<u>2.94</u>





## SCHEDULE A – WASTEWATER DEPARTMENT RATES FOR TREATMENT SERVICE

EFFECTIVE ~~07/01/19~~07/01/20

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### Multi-Use Food Service Establishments and Domestic Waste Accounts

Accounts identified by EBMUD where there ~~is~~are one or more food service establishments or bakeries sharing the water meter with establishments or operations with only domestic waste discharges. These accounts are assigned an MT code based on the percentage split of the discharge from the food service establishment operations or bakeries and domestic waste. The unit treatment charge for each MT Code is calculated from the food service establishment or bakeries treatment rate and the domestic waste treatment rate.

MT Code		Current	
A	0-9% Food, 91-100% Domestic	<del>\$2.830</del>	<u>\$2.940</u>
B	10-19% Food, 81-90% Domestic	<del>3.130</del>	<u>3.252</u>
C	20-29% Food, 71-80% Domestic	<del>3.430</del>	<u>3.564</u>
D	30-39% Food, 61-70% Domestic	<del>3.730</del>	<u>3.876</u>
E	40-49% Food, 51-60% Domestic	<del>4.030</del>	<u>4.188</u>
F	50-59% Food, 41-50% Domestic	<del>4.330</del>	<u>4.500</u>
G	60-69% Food, 31-40% Domestic	<del>4.630</del>	<u>4.812</u>
H	70-79% Food, 21-30% Domestic	<del>4.930</del>	<u>5.124</u>
I	80-89% Food, 11-20% Domestic	<del>5.230</del>	<u>5.436</u>
J	90-99% Food, 1-10% Domestic	<del>5.530</del>	<u>5.748</u>
K	0-9% Bakery, 91-100% Domestic	<del>2.830</del>	<u>2.940</u>
L	10-19% Bakery, 81-90% Domestic	<del>3.512</del>	<u>3.649</u>
M	20-29% Bakery, 71-80% Domestic	<del>4.194</del>	<u>4.358</u>
N	30-39% Bakery, 61-70% Domestic	<del>4.876</del>	<u>5.067</u>
O	40-49% Bakery, 51-60% Domestic	<del>5.558</del>	<u>5.776</u>
P	50-59% Bakery, 41-50% Domestic	<del>6.240</del>	<u>6.485</u>
Q	60-69% Bakery, 31-40% Domestic	<del>6.922</del>	<u>7.194</u>
R	70-79% Bakery, 21-30% Domestic	<del>7.604</del>	<u>7.903</u>
S	80-89% Bakery, 11-20% Domestic	<del>8.286</del>	<u>8.612</u>
T	90-99% Bakery, 1-10% Domestic	<del>8.968</del>	<u>9.321</u>
Minimum Monthly Treatment Charge:			
6513	Apartment Buildings (5 or more units)	<del>\$43.57</del>	<u>\$45.30</u>
	All Others	<del>7.02</del>	<u>7.30</u>



**Wastewater Department**

**Schedule B**

**Wet Weather Facilities Charge**

**FY21**





## SCHEDULE B – WASTEWATER DEPARTMENT WET WEATHER FACILITIES CHARGE

EFFECTIVE ~~07/01/19~~07/01/20

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Annual Charge Collected on Property Tax Bill<sup>1</sup>

TYPE	RATE
Small Lot (0 - 5,000 sq. ft.)	\$ <del>111.24</del> <u>115.70</u>
Medium Lot (5,001 – 10,000 sq. ft.)	\$ <del>173.78</del> <u>180.74</u>
Large Lot (> 10,000 sq. ft.)	\$ <del>397.20</del> <u>413.10</u>

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<sup>1</sup> The WWFC for entities that are exempt from property taxes (e.g., public agencies) is collected through the District's billing process.



**Wastewater Department**

**Schedule C**

**Industrial Permit Fees**

**FY21**







## SCHEDULE C – WASTEWATER DEPARTMENT INDUSTRIAL PERMIT FEES

EFFECTIVE ~~07/01/19~~07/01/20

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PERMIT TYPE	ANNUAL FEE
Wastewater Discharge Permit	<del>\$2,810</del> <u>2,920</u>
Estimation Permit	<del>\$1,060</del> <u>1,110</u>
Limited Term Discharge Permit	<del>\$2,570</del> <u>2,670</u>



# **Wastewater Department**

## **Schedule D**

### **Other Fees**

**FY21**





## SCHEDULE D – WASTEWATER DEPARTMENT OTHER FEES

EFFECTIVE ~~07/01/19~~ 07/01/20

TYPE	RATE
SF Bay Commercial Pollution Prevention Fee	\$5.48/month <sup>1</sup>
SF Bay Residential Pollution Prevention Fee	\$0.20/month per dwelling unit <sup>2</sup>
Monitoring Fees	<del>\$1,490</del> <u>\$1,550</u>
Violation Follow-Up Fees	
Stage 1	<del>\$700</del> <u>\$730</u>
Stage 2	<del>\$1,490</del> <u>\$1,550</u> + Testing Fees <sup>3</sup>
Stage 3	<del>\$3,070</del> <u>\$3,190</u> + Testing Fees <sup>3</sup>
Private Sewer Lateral Compliance Fees	
Compliance Certificate <sup>4</sup>	<del>\$260</del> <u>\$270</u>
Time Extension Certificate	\$110
Inspection Reschedule	\$80
Extra Lateral or Additional Verification Test	\$70 per lateral
Off-Hours Verification	<del>\$240</del> <u>\$220</u> for 2.5 hours
PSL Violation Follow-Up – Initial Fee	<del>\$370</del> <u>\$380</u>
PSL Violation Follow-Up – Monthly Fee	\$100

<sup>1</sup>SF Bay Commercial Pollution Prevention Fee applicable to all non-residential accounts.

<sup>2</sup>SF Bay Residential Pollution Prevention Fee applicable to all residential accounts. Fee will be charge per dwelling unit up to five dwelling units.

<sup>3</sup>Violation follow-up fees do not include required testing. Testing fees will be charged in accordance with Schedule E Wastewater Department Testing Fees.

<sup>4</sup>Compliance Certificate Fee may be assessed for performance of a Verification Test that results in issuance of a new Compliance Certificate or annotation of an existing Compliance Certificate.









EAST BAY MUNICIPAL UTILITY DISTRICT

UPDATE TO COST OF SERVICE (COS) STUDIES  
OF APRIL 2015 AND MAY 2019

IN SUPPORT OF PROPOSED FY20 AND FY21  
WATER AND WASTEWATER RATES

- Update to Chapter 7, April 2015 COS Study In Support of Proposed FY20 and FY21 Water System Rates & Charges
- Update to Chapter 5, May 2019 COS Study In Support of Proposed FY20 and FY21 Wastewater System Rates & Charges

## **7.0 PROPOSED FY20 & FY21 WATER SYSTEM CHARGES**

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This section updates Chapter 7.0 of the 2015 Cost of Service (COS) study for Fiscal Years 2020 and 2021 (FY20 and FY21) Water System rates and charges based on the District's FY20 and FY21 revenue requirements. The FY20 and FY21 revenue requirements are calculated from the District's budgeted operating, capital and debt expenses. The District's COS study rate model, prepared by Raftelis Financial Consultants, was used to calculate Water System rates and charges for FY20 and FY21 that meet the FY20 and FY21 revenue requirements, and are consistent with the District's COS calculations.

The District's proposed budgets for the Water System for FY20 and FY21 do not contain detailed budgeted costs by function. Accordingly data from FY15 was used as the Test Year (i.e., a full year of actual functionalized expense data available at the time the COS study commenced and which is a representative year for the District). The District does not anticipate that the distribution of expenses by function for FY20 and FY21 will be significantly different than the Test Year expenses. Based on the proposed budgets for FY20 and FY21, the COS results from the Test Year have been adjusted to match the FY20 and FY21 revenue requirements.

A detailed explanation of the proposed FY20 and FY21 operating expenses, capital improvement program, debt service expenses, revenue projections, and water sales for the Water System are contained in the Proposed Biennial Budget Fiscal Years 2020 and 2021 that was presented to the Board at the March 26, 2019 Budget Workshop.

This section documents the process and calculations made to determine the Water System rates and charges for FY20 and FY21.

## 7.1 FY20 AND FY21 WATER SYSTEM CHARGES AND CUSTOMER IMPACTS

Tables 7-1 and 7-2 show the current FY19 monthly Water System rates and charges that were developed with the FY19 revenue requirement and the Water System rates and charges calculated by the April 2015 COS study.

**Table 7-1**  
**Current FY19 Cost of Service Water Charges – Monthly Water Service Charge & Monthly Private Fire Service Charge (\$/Meter Size)**

<b>Meter Size</b>	<b>Monthly Water Service Charge</b>	<b>Monthly Private Fire Service Charge</b>
5/8 and 3/4 inch	\$24.63	\$13.11
1 inch	\$37.20	\$18.01
1 1/2 inch	\$68.65	\$30.20
2 inch	\$106.36	\$44.84
3 inch	\$206.96	\$83.92
4 inch	\$320.13	\$127.85
6 inch	\$634.43	\$249.92
8 inch	\$1,011.64	\$396.39
10 inch	\$1,451.69	\$567.27
12 inch	\$2,017.52	\$786.97
14 inch	\$2,583.30	\$1,006.69
1 inch	\$3,274.84	\$1,275.25
16 inch	\$3,966.36	\$1,543.78

**Table 7-2**  
**Current FY19 Cost of Service Water System Charges – Flow Charge and Elevation Surcharge**

		<b>FY19</b>
<b>Flow Charges (\$/Ccf)</b>		
SFR		
Tier 1	0-7 Ccf	\$3.76
Tier 2	8-16 Ccf	\$5.17
Tier 3	16+ Ccf	\$6.83
MFR		\$5.31
All Other Water Use		\$5.29
Nonpotable/Recycle Water		\$4.12
<b>Elevation Surcharge (\$/Ccf)</b>		
Pressure Zone 1 (0 - 1 Designator)		\$0.00
Pressure Zone 2 (2 - 5 Designator)		\$0.76
Pressure Zone 3 (6 and greater Designator)		\$1.58

Table 7-3 shows the revenue requirement for FY20 and FY21 as calculated based on the proposed FY20 and FY21 budgets for the water enterprise. Based on updated water sales projections for FY20 and FY21, the FY19 COS Water System Charges shown in Tables 7-1 and 7-2 need to be increased by 6.5 percent in FY20, and 6.25 percent in FY21 to meet the Water System revenue requirements<sup>1</sup>.

**Table 7-3**  
**Water System Revenue Requirements for FY20 and FY21**

Water	FY20			FY21		
	Operating	Capital	Total	Operating	Capital	Total
<b>Revenue Requirements</b>						
Operating - O&M Expenses	299,300,000		\$299,300,000	315,400,000		\$315,400,000
Capital - Debt Service		208,200,000	\$208,200,000		217,700,000	\$217,700,000
Capital - Expenses		337,700,000	\$337,700,000		385,500,000	\$385,500,000
<b>Total Revenue Requirements</b>	<b>\$299,300,000</b>	<b>\$545,900,000</b>	<b>\$845,200,000</b>	<b>\$315,400,000</b>	<b>\$603,200,000</b>	<b>\$918,600,000</b>
<b>Revenue Offsets</b>						
Property Taxes		35,000,000	\$35,000,000		35,800,000	\$35,800,000
Power	5,000,000		\$5,000,000	5,000,000		\$5,000,000
Interest	9,300,000		\$9,300,000	9,600,000		\$9,600,000
SCC Revenue		40,000,000	\$40,000,000		40,000,000	\$40,000,000
Operating Reimbursement	12,300,000		\$12,300,000	12,600,000		\$12,600,000
RARE Reimbursement	18,200,000		\$18,200,000	18,400,000		\$18,400,000
All Other		-	\$0		-	\$0
Transfer (to)/from Rate Stabilization Reserve	\$0		\$0	\$0	-5000000	(\$5,000,000)
<b>Total Revenue Offsets</b>	<b>\$44,800,000</b>	<b>\$75,000,000</b>	<b>\$119,800,000</b>	<b>\$45,600,000</b>	<b>\$70,800,000</b>	<b>\$116,400,000</b>
<b>Adjustments</b>						
Transfer of Cash for Capital from Other Funds	\$0	(181,900,000)	(\$181,900,000)	\$0	(219,700,000)	(\$219,700,000)
<b>Total Adjustments</b>	<b>\$0</b>	<b>(181,900,000)</b>	<b>(\$181,900,000)</b>	<b>\$0</b>	<b>(219,700,000)</b>	<b>(\$219,700,000)</b>
<b>Cost of Service to be Recovered from Rates</b>	<b>\$254,500,000</b>	<b>\$289,000,000</b>	<b>\$543,500,000</b>	<b>\$269,800,000</b>	<b>\$312,700,000</b>	<b>\$582,500,000</b>

<sup>1</sup> As discussed in the District's March 21, 2019 Memo to the Board of Directors on FY20 and FY21 rates.

Tables 7-4 and 7-5 show the proposed FY20 and FY21 Monthly Service Charges and Private Fire Service Charges, and the rates used for the water Flow Charge and Elevation Surcharge.

**Table 7-4**  
**FY20 and FY21 Water System Charges – Monthly Water Service Charge & Monthly Private Fire Service Charge (\$/Meter Size)**

	FY20	FY21
<b>Monthly Water Service Charge</b>		
Meter Size		
5/8 and 3/4 inch	\$26.23	\$27.87
1 inch	\$39.62	\$42.10
1 1/2 inch	\$73.11	\$77.68
2 inch	\$113.27	\$120.35
3 inch	\$220.41	\$234.19
4 inch	\$340.94	\$362.25
6 inch	\$675.67	\$717.90
8 inch	\$1,077.40	\$1,144.74
10 inch	\$1,546.05	\$1,642.68
12 inch	\$2,148.66	\$2,282.95
14 inch	\$2,751.21	\$2,923.16
16 inch	\$3,487.70	\$3,705.68
18 inch	\$4,224.17	\$4,488.18
<b>Monthly Private Fire Service Charge</b>		
Meter Size		
5/8 and 3/4 inch	\$13.96	\$14.83
1 inch	\$19.18	\$20.38
1 1/2 inch	\$32.16	\$34.17
2 inch	\$47.75	\$50.73
3 inch	\$89.37	\$94.96
4 inch	\$136.16	\$144.67
6 inch	\$266.16	\$282.80
8 inch	\$422.16	\$448.55
10 inch	\$604.14	\$641.90
12 inch	\$838.12	\$890.50
14 inch	\$1,072.12	\$1,139.13
16 inch	\$1,358.14	\$1,443.02
18 inch	\$1,644.13	\$1,746.89

**Table 7-5**  
**FY20 and FY21 Water System Charges – Flow**  
**Charge and Elevation Surcharge**

		<b>FY20</b>	<b>FY21</b>
<b>Flow Charges (\$/Ccf)</b>			
SFR			
Tier 1	0-7 Ccf	\$4.00	\$4.25
Tier 2	8-16 Ccf	\$5.51	\$5.85
Tier 3	16+ Ccf	\$7.27	\$7.72
MFR		\$5.66	\$6.01
All Other Water Use		\$5.63	\$5.98
Nonpotable/Recycle Water		\$4.39	\$4.66
<b>Elevation Surcharge (\$/Ccf)</b>			
Pressure Zone 1 (0 - 1 Designator)		\$0.00	\$0.00
Pressure Zone 2 (2 - 5 Designator)		\$0.81	\$0.86
Pressure Zone 3 (6 and greater Designator)		\$1.68	\$1.79

The proposed customer water bill impacts, shown in Tables 7-6 through 7-8, reflect the increases described previously. Table 7-6 shows the SFR bill impacts at various levels of water usage for FY20. Bill impacts for FY21 are approximately 6.25 percent more than those shown below.

**Table 7-6**  
**SFR Water Bill Impacts for FY20**

<b>Use Level</b>	<b>Monthly Use (Ccf)</b>	<b>FY19 Current Bill</b>	<b>FY20 Proposed Bill</b>	<b>Difference (\$)</b>	<b>Difference (%)</b>
Very Low	4	\$39.67	\$42.23	\$2.56	6.5%
Low	6	\$47.19	\$50.23	\$3.04	6.4%
Average	8	\$56.12	\$59.74	\$3.62	6.5%
High	10	\$66.46	\$70.76	\$4.30	6.5%
Very High	22	\$138.46	\$147.44	\$8.98	6.5%

All bill calculations assume 5/8" or 3/4" meter.

Table 7-7 shows the MFR bill impacts at various levels of water usage for FY20. Bill impacts for FY21 are approximately 6.25 percent more than those shown below.

**Table 7-7**  
**MFR Water Bill Impacts for FY20**

Use Level	Monthly Use (Ccf)	FY19 Current Bill	FY20 Proposed Bill	Difference (\$)	Difference (%)
Very Low	15	\$116.85	\$124.54	\$7.69	6.6%
Low	20	\$143.40	\$152.84	\$9.44	6.6%
Average	42	\$260.22	\$277.36	\$17.14	6.6%
High	60	\$355.80	\$379.24	\$23.44	6.6%
Very High	100	\$568.20	\$605.64	\$37.44	6.6%

All bill calculations assume 1" meter.

Table 7-8 shows the Other (non-residential) bill impacts at various levels of water usage for FY20. Bill impacts for FY21 are approximately 6.25 percent more than those shown below.

**Table 7-8**  
**Other Water Bill Impacts for FY20**

Use Level	Monthly Use (Ccf)	FY19 Current Bill	FY20 Proposed Bill	Difference (\$)	Difference (%)
Very Low	20	\$212.16	\$225.87	\$13.71	6.5%
Low	50	\$370.86	\$394.77	\$23.91	6.4%
Average	84	\$550.72	\$586.19	\$35.47	6.4%
High	100	\$635.36	\$676.27	\$40.91	6.4%
Very High	200	\$1,164.36	\$1,239.27	\$74.91	6.4%

All bill calculations assume 2" meter.

## 7.2 DROUGHT SURCHARGES

The 2015 COS study developed a detailed COS analysis to calculate Drought Surcharges that may be implemented by the District during various drought stages. Table 7-18 shows the District's drought stages and the applicable Drought Surcharge at each stage. The drought stages are part of the District's Water Shortage Contingency Plan which includes the elements contained below with respect to demand reduction and purchase of supplemental supplies of water as a water shortage becomes more severe. The 2015 COS study developed Drought Surcharges that would address the financial impact that customer reduction in water use would have during specified drought stages. The revenue requirement for each drought stage was developed and a Drought Surcharge was calculated to recover water shortage costs such as costs of acquiring and providing supplemental water, costs of water shortage-related customer service, and losses of revenue, which increase with each drought stage. The Drought Surcharges, expressed as percentage of the potable Water Flow Charge, are shown in Table 7-18. As part of the FY16 and FY17 budget process, the Board adopted the staged system of Drought Surcharges to recover water shortage-related costs.

**Table 7-18  
Drought Stages and Drought Surcharges**

Stage	0	1	2	3	4
<b>Demand Reduction</b>		Voluntary 0-15%	Voluntary 0-15%	Mandatory up to 15%	Mandatory ≥15%
<b>Supplemental Supplies</b>			Up to 35,000 acre feet	35,000-65,000 acre feet	> 65,000 acre feet
<b>Rates and Charges</b>	Normal rates	Normal rates	Normal rates  + Up to 8% surcharge	Normal rates  + Up to 20% surcharge	Normal rates  + Up to 25% surcharge

The District's COS study developed Drought Surcharge percentages to be added to the potable Water Flow Charges of up to 8 percent, 20 percent and 25 percent to be imposed during drought Stages 2, 3 and 4, respectively. Drought surcharges would be applicable to all potable water customer accounts only if the EBMUD Board of Directors declares a Stage 2, 3, or 4 drought based on factors such as system water storage and the need to purchase supplemental supplies of water to meet customer demand. The Drought Surcharges correspond to increasingly severe stages of water shortages, and are added to the customer's total potable water Flow Charge during the billing period. The Drought Surcharges are calculated to meet the Water System's revenue requirements of each drought stage.

The District's Drought Management Program Guidelines offer two scenarios for declaration of the different drought stages depending on whether the drought declaration is linked to local conditions, as measured by total system storage (TSS) in the District's reservoirs, or to a state mandate, such as the mandatory water use reductions set by the State Water Resource Control Board in 2015.

Under the "TSS Scenario," EBMUD declares different drought stages based upon projected end of September TSS as shown in Figure 7-19 of the 2015 UWMP. Table 7-20 of the 2015 UWMP shows the link between the drought stages and rates, penalties, and regulations in effect under the TSS scenario.

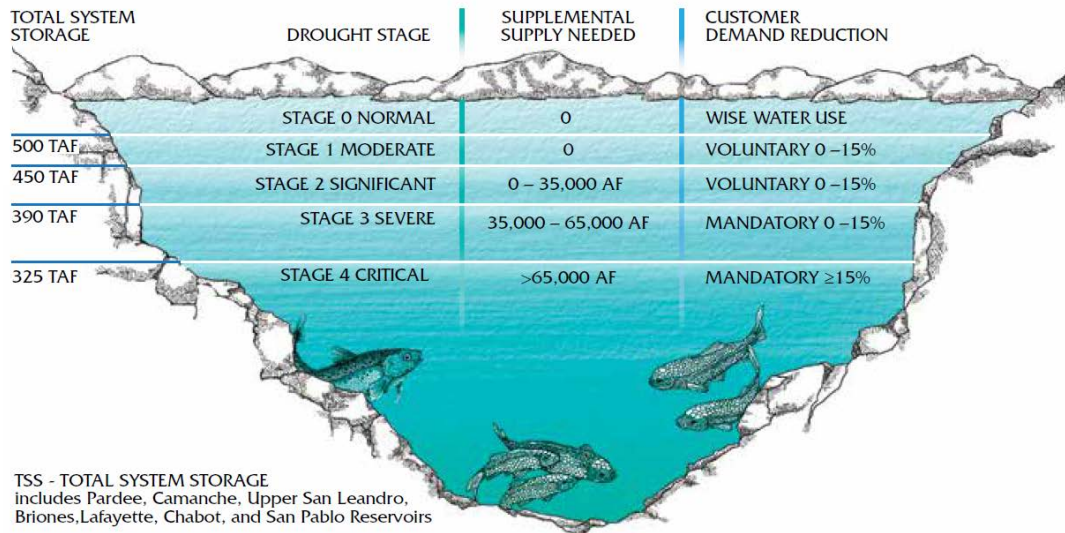
It is possible that the water use reductions required by state mandate could exceed water use reductions that would otherwise be called for based on the TSS. In the State Mandate Scenario, the drought stage and associated response actions would be guided by Table 7-21, which establishes stages based on state mandated customer demand reduction goals.

Under either scenario, EBMUD's Board of Directors can enact the provisions of Section 28 of its Regulations Governing Water Service during drought Stages 2, 3, and 4. When these stages of drought are declared, the Board can also implement Drought Surcharges in accordance with the rates set forth in the District's Proposition 218 notice.



**Figure 7-19**

### Drought Management Program Guidelines



**Figure 7-20**

### Drought Management Program Guidelines – TSS Scenario

STAGE	RATE/PENALTY IMPACTS	REGULATIONS IN EFFECT OR POTENTIALLY ENACTED
0 NORMAL	NORMAL RATES	SECTION 29
1 MODERATE	NORMAL RATES	SECTION 29
2 SIGNIFICANT	NORMAL RATES DROUGHT SURCHARGE	SECTION 29
3 SEVERE	NORMAL RATES DROUGHT SURCHARGE EXCESSIVE USE PENALTY	SECTION 28 SECTION 29 EXCESSIVE USE ORDINANCE
4 CRITICAL	NORMAL RATES DROUGHT SURCHARGE EXCESSIVE USE PENALTY	SECTION 28 SECTION 29 EXCESSIVE USE ORDINANCE

Notes:  
a Drought Surcharges will reflect the most recently adopted Proposition 218 rates.  
b Under Stages 3 or 4, the Board would declare a water shortage emergency and enact Section 28 to implement water conservation measures. Penalties under the Excessive Use Ordinance would apply.

**Figure 7-21**

### Drought Management Program Guidelines – State Mandate Scenario

STAGE	STATE MANDATED CUSTOMER DEMAND REDUCTION	RATE IMPACTS	REGULATIONS IN EFFECT OR POTENTIALLY ENACTED
0 OR 1	≤10%	NORMAL RATES	SECTION 29
2	10 – 15%	NORMAL RATES DROUGHT SURCHARGE	SECTION 28 SECTION 29
3	15 – 20%	NORMAL RATES DROUGHT SURCHARGE	SECTION 28 SECTION 29
4	≥20%	NORMAL RATES DROUGHT SURCHARGE	SECTION 28 SECTION 29

Notes:  
a Drought Surcharges will reflect the most recently adopted Proposition 218 rates.  
b The Board can enact Section 28 to implement conservation measures to achieve desired customer demand reductions.

The District does not anticipate a water shortage in FY20 or FY21 because of the high levels of water currently in storage due to recent storms and reduced customer demand. However, the Drought Surcharge percentages that were developed in the 2015 COS study and adopted for FY16 and FY17 will remain in effect in FY20 and FY21 as a contingency plan in the unanticipated event of a water shortage. If implemented, the Drought Surcharges would impact the rates of the water Flow Charge. Prior to implementing the Drought Surcharges, the District will update its drought-related costs and develop and adopt surcharges consistent with the COS study. The surcharge will not exceed the Drought Surcharge percentages listed above and the District's costs of providing service. The District's Proposition 218 notice for FY20 and FY21 includes information regarding these surcharges so that they remain available to the Board to implement in the event the District is in a water shortage that requires reductions in water use by its customers.

## 5.0 PROPOSED FY2020 & FY2021 WASTEWATER SYSTEM CHARGES

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This section summarizes Chapter 5.0 of the May 2019 Wastewater COS study for the FY20 and FY21 Wastewater System rates and charges based on the District's FY20 and FY21 revenue requirements. The FY20 and FY21 revenue requirements are calculated from the District's budgeted operating, capital and debt expenses. The District's COS study rate model, prepared by Raftelis Financial Consultants, was used to calculate Wastewater System rate and charges for FY20 and FY21 that meet the FY20 and FY21 revenue requirements, and are consistent with the District's COS calculations.

The District's proposed budgets for the Wastewater System for FY20 and FY21 do not contain detailed budgeted costs by function. Accordingly data from FY17 was used as the Test Year (i.e., a full year of actual functionalized expense data available at the time the COS study commenced and which is a representative year for the District). The District does not anticipate that the distribution of expenses by function for FY20 and FY21 will be significantly different than the Test Year expenses. Based on the proposed Wastewater System budgets for FY20 and FY21, the COS results from the Test Year have been adjusted to match the FY20 and FY21 revenue requirements.

This section documents the process and calculations made to determine the Wastewater System rates and charges for FY20 and FY21

### 5.1 FY20 AND FY21 WASTEWATER SYSTEM CHARGES AND CUSTOMER IMPACTS

Tables 5-2 and 5-3 show the proposed FY19 Wastewater Service Charges that have been adjusted based on recommendations from the 2019 Wastewater COS study for residential and non-residential customers, respectively.

**Table 5-2**  
**FY19 Cost of Service Adjusted Wastewater System Charges – Residential**

	FY19
Monthly Service Charge (per Account)	\$6.75
Monthly Strength Charge (per dwelling unit)	\$7.03
Minimum Monthly Charge	\$13.78
Plus: A flow charge per Ccf (maximum of 9 Ccf/mo)	\$1.22
Minimum monthly flow charge	\$0.00
Maximum monthly flow charge	\$10.98
Total Monthly Residential Charge	
Minimum monthly charge	\$13.78
Maximum monthly charge	\$24.76
Average monthly charge at 6 Ccf	\$21.10

**Table 5-3**  
**FY19 Cost of Service Adjusted Wastewater System Charges – Non-Residential**

	<b>FY19</b>
Monthly Service Charge (per Account)	\$6.75
Treatment charge including flow processing (per Ccf of sewage discharge)	
Meat Products	\$8.55
Slaughterhouses	\$8.17
Dairy Product Processing	\$6.71
Fruit and Vegetable Canning	\$5.39
Grain Mills	\$5.37
Bakeries (including Pastries)	\$9.28
Sugar Processing	\$5.31
Rendering Tallow	\$16.10
Beverage Manufacturing & Bottling	\$4.03
Specialty Foods Manufacturing	\$17.35
Pulp and Paper Products	\$4.60
Inorganic Chemicals Mfgr.	\$5.92
Synthetic Material Manufacturing	\$1.39
Drug Manufacturing	\$2.99
Cleaning and Sanitation Products	\$6.05
Paint Manufacturing	\$11.67
Ink and Pigment Manufacturing	\$4.22
Leather Tanning and Finishing	\$16.12
Earthenware Manufacturing	\$3.27
Primary Metals Manufacturing	\$2.59
Metal Products Fabricating	\$1.51
Drum and Barrel Manufacturing	\$16.42
Metal Coating	\$1.64
Air Transportation	\$2.16
Groundwater Remediation	\$1.23
Food Service Establishments	\$5.61
Apartment Buildings (5 or more units)	\$2.72
Hotels, Motels with Food Service	\$4.03
Commercial Laundries	\$3.63
Coin Operated Laundromats	\$2.72
Industrial Laundries	\$10.32
Laboratories	\$1.95
Automobile Washing and Polishing	\$2.58
Hospitals	\$2.48
Schools	\$1.82
All Other BCC (includes dischargers of only segregated domestic wastes from sanitary conveniences)	\$2.72

Table 5-4 shows the current FY19 Wet Weather Facilities Charges adjusted for the recommended changes from the 2019 Wastewater COS study.

**Table 5-4**  
**FY19 Cost of Service Adjusted Wet Weather Facilities Charges**

Lot Size (sq ft)	FY19
0-5,000	\$106.96
5,001-10,000	\$167.10
over 10,000	\$381.92

Using the FY17 test year, the 2019 Wastewater COS study recommended slight changes to ensure the wastewater rates and charges align with the treatment costs. Table 5-5 shows the revenue requirements for FY20 and FY21 based on the proposed FY20 and FY21 budgets for the wastewater enterprise. Based on an updated projection of treatment revenues for FY20 and FY21, the FY19 COS adjusted wastewater user charges, shown in Tables 5-2 through 5-4, have been further adjusted by a 4.0 percent increase in FY20 and a 4.0 percent increase in FY21 to meet the Wastewater System's revenue requirements<sup>2</sup>.

**Table 5-5**  
**Wastewater System Revenue Requirements for FY20 and FY21**

Wastewater	FY20			FY21		
	Operating	Capital	Total	Operating	Capital	Total
<b>Revenue Requirements</b>						
O&M Expenses	\$75,100,000		\$75,100,000	\$78,600,000		\$78,600,000
Capital - Debt Service		\$30,200,000	\$30,200,000		\$29,800,000	\$29,800,000
Capital - Expenses		\$48,500,000	\$48,500,000		\$46,000,000	\$46,000,000
<b>Total Revenue Requirements</b>	<b>\$75,100,000</b>	<b>\$78,700,000</b>	<b>\$153,800,000</b>	<b>\$78,600,000</b>	<b>\$75,800,000</b>	<b>\$154,400,000</b>
<b>Revenue Offsets</b>						
Resource Recovery	\$6,089,050	\$3,910,950	\$10,000,000	\$6,089,050	\$3,910,950	\$10,000,000
Property Taxes		\$5,400,000	\$5,400,000		\$5,600,000	\$5,600,000
Ad Valorem Bond Levy		\$0	\$0		\$0	\$0
Interest	\$2,400,000		\$2,400,000	\$2,100,000		\$2,100,000
Laboratory Services	\$4,400,000		\$4,400,000	\$4,500,000		\$4,500,000
Reimbursements	\$1,500,000		\$1,500,000	\$1,500,000		\$1,500,000
Permit Fees	\$1,600,000		\$1,600,000	\$1,600,000		\$1,600,000
Capacity Charges		\$4,000,000	\$4,000,000		\$4,000,000	\$4,000,000
All Other Revenue	\$2,200,000	\$3,500,000	\$5,700,000	\$2,200,000	\$3,500,000	\$5,700,000
Transfer (to)/from Rate Stabilization Reserve (RSR)	\$0		\$0	\$0		\$0
<b>Total Revenue Offsets</b>	<b>\$18,189,050</b>	<b>\$16,810,950</b>	<b>\$35,000,000</b>	<b>\$17,989,050</b>	<b>\$17,010,950</b>	<b>\$35,000,000</b>
<b>Adjustments</b>						
Transfer of Cash for Capital from Other Funds		(\$13,600,000)	(\$13,600,000)		(\$10,000,000)	(\$10,000,000)
<b>Total Adjustments</b>	<b>\$0</b>	<b>(\$13,600,000)</b>	<b>(\$13,600,000)</b>	<b>\$0</b>	<b>(\$10,000,000)</b>	<b>(\$10,000,000)</b>
<b>Cost of Service to be Recovered from Rates</b>	<b>\$56,910,950</b>	<b>\$48,289,050</b>	<b>\$105,200,000</b>	<b>\$60,610,950</b>	<b>\$48,789,050</b>	<b>\$109,400,000</b>

<sup>2</sup> As summarized in the District's March 21, 2019 Memo to the Board of Directors on FY20 and FY21 rates.

Tables 5-6 and 5-7 show the proposed FY20 and FY21 Wastewater System Charges for residential and non-residential customers, respectively.

**Table 5-6**  
**FY20 and FY21 Wastewater System Charges – Residential**

	<b>FY20</b>	<b>FY21</b>
Monthly Service Charge (per Account)	\$7.02	\$7.30
Monthly Strength Charge (per dwelling unit)	\$7.31	\$7.60
Minimum Monthly Charge	\$14.33	\$14.90
Plus: A flow charge per Ccf (maximum of 9 Ccf/mo)	\$1.27	\$1.32
Minimum monthly flow charge	\$0.00	\$0.00
Maximum monthly flow charge	\$11.43	\$11.88
Total Monthly Residential Charge		
Minimum monthly charge	\$14.33	\$14.90
Maximum monthly charge	\$25.76	\$26.78
Average monthly charge at 6 Ccf	\$21.95	\$22.82

**Table 5-7**  
**FY20 and FY21 Wastewater System Charges – Non-Residential**

	<b>FY20</b>	<b>FY21</b>
Monthly Service Charge (per Account)	\$7.02	\$7.30
Treatment charge including flow processing (per Ccf of sewage discharge)		
Meat Products	\$8.90	\$9.24
Slaughterhouses	\$8.50	\$8.83
Dairy Product Processing	\$6.98	\$7.25
Fruit and Vegetable Canning	\$5.61	\$5.83
Grain Mills	\$5.58	\$5.80
Bakeries (including Pastries)	\$9.65	\$10.03
Sugar Processing	\$5.53	\$5.74
Rendering Tallow	\$16.74	\$17.40
Beverage Manufacturing & Bottling	\$4.19	\$4.36
Specialty Foods Manufacturing	\$18.05	\$18.75
Pulp and Paper Products	\$4.79	\$4.98
Inorganic Chemicals Mfgr.	\$6.16	\$6.40
Synthetic Material Manufacturing	\$1.44	\$1.50
Drug Manufacturing	\$3.11	\$3.23
Cleaning and Sanitation Products	\$6.30	\$6.54
Paint Manufacturing	\$12.14	\$12.61
Ink and Pigment Manufacturing	\$4.39	\$4.56
Leather Tanning and Finishing	\$16.77	\$17.43
Earthenware Manufacturing	\$3.40	\$3.53
Primary Metals Manufacturing	\$2.69	\$2.80
Metal Products Fabricating	\$1.57	\$1.64
Drum and Barrel Manufacturing	\$17.08	\$17.74
Metal Coating	\$1.71	\$1.77
Air Transportation	\$2.25	\$2.34
Groundwater Remediation	\$1.28	\$1.34
Food Service Establishments	\$5.83	\$6.06
Apartment Buildings (5 or more units)	\$2.83	\$2.94
Hotels, Motels with Food Service	\$4.19	\$4.36
Commercial Laundries	\$3.77	\$3.92
Coin Operated Laundromats	\$2.83	\$2.94
Industrial Laundries	\$10.73	\$11.15
Laboratories	\$2.02	\$2.11
Automobile Washing and Polishing	\$2.68	\$2.79
Hospitals	\$2.57	\$2.68
Schools	\$1.89	\$1.97
All Other BCC (includes dischargers of only segregated domestic wastes from sanitary conveniences)	\$2.83	\$2.94

Table 5-8 shows the Wet Weather Facilities Charges for FY20 and FY21 with the adjustment for the 2019 COS study and a further adjustment of a 4.0 percent increase for each year. When compared to the current FY19 charge that does not include the adjustments for the 2019 COS study, the FY20 increase to the annual Wet Weather Facilities Charge is 7.2 percent.

**Table 5-8**  
**FY20 and FY21 Wet Weather Facilities Charges**

Lot Size (sq ft)	FY20	FY21
0-5,000	\$111.24	\$115.70
5,001-10,000	\$173.78	\$180.74
over 10,000	\$397.20	\$413.10

The resulting customer bill impacts, shown in Tables 5-9 and 5-10, reflect the increases described previously. Table 5-9 shows the bill impacts for different customers with typical water usage for FY20. Bill impacts for FY21 are approximately 4.0 percent more than those shown below.

**Table 5-9**  
**Typical Customers' Wastewater Bill Impacts for FY20**

Customer Class	Monthly Use (Ccf)	FY19 Current Bill	FY20 Proposed Bill	Difference (\$)	Difference (%)
SFR	6	\$21.75	\$21.95	\$0.20	0.9%
MFR - Fourplex	25	\$69.84	\$68.01	(\$1.83)	-2.6%
Commercial - Office	50	\$142.62	\$148.52	\$5.90	4.1%
Commercial - Restaurant	50	\$279.62	\$298.52	\$18.90	6.8%
Industrial - Food Manufacturing	500	\$8,001.12	\$9,032.02	\$1,030.90	12.9%

Note: Bill does not include SF Bay Pollution Prevention Charge

Table 5-10 shows the annual charges for the FY20 Wet Weather Facilities Charge collected on the property tax bill for different customers with typical lot sizes. For properties that do not receive a property tax bill, the Wet Weather Facilities Charges are collected on the water bill. The increase to the annual Wet Weather Facilities Charge for FY21 is approximately 4.0 percent more than those shown below.

**Table 5-10**  
**Wet Weather Facilities Charge Impacts for FY20**

Customer Class	Median Lot Size (sq ft)	FY19 Current Bill	FY20 Proposed Bill	Difference (\$)	Difference (%)
SFR	4,800	\$103.74	\$111.24	\$7.50	7.2%
Duplex	4,500	\$103.74	\$111.24	\$7.50	7.2%
Triplex	5,130	\$162.06	\$173.78	\$11.72	7.2%
Fourplex	5,400	\$162.06	\$173.78	\$11.72	7.2%
Apartment	7,400	\$162.06	\$173.78	\$11.72	7.2%
All Other	14,300	\$370.44	\$397.20	\$26.76	7.2%





## EAST BAY MUNICIPAL UTILITY DISTRICT

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DATE: May 14, 2019

MEMO TO: Board of Directors

FROM: Alexander R. Coate, General Manager *ARC*

SUBJECT: Monthly Report – April 2019

### HIGHLIGHTS

**In April, staff collaborated with the Moraga-Orinda Fire District on the development and implementation of the North Orinda Fuel Break Project.** The project is designed to protect approximately 60,000 residents in the communities of Lafayette, Moraga, and Orinda from wildfires approaching from the north and east. This area receives seasonal Foehn winds (locally known as Diablo winds) that were the dominant influence on several major nearby wildfires, including the 1991 Tunnel Fire in the Berkeley-Oakland hills.

### WATER SUPPLY

**San Ramon Valley recycled water customer site retrofits are continuing.** In April, retrofit work and cross-connection testing was successfully completed on Caltrans Hwy 680 streetscapes and Bishop Ranch Sunset Development Service Center. Final connection is pending the completion of punchlist items. Service lateral and meter installations are pending for three streetscapes and the San Ramon Veterinary Center. Cross-connection testing at the San Ramon Valley PG&E Conference Center is awaiting customer scheduling.

**In April, juvenile salmonid production and migration monitoring continued on the Mokelumne River.** The estimated juvenile salmon emigration numbers at the trap locations are much larger than what is typically observed. At the rotary screw trap (trap) near a golf course, just below the lower Sacramento Road bridge in Woodbridge, a total of 22,898 naturally produced juvenile Chinook salmon have been captured; based on trap calibrations, an estimated 2,700,00 juvenile Chinook salmon have emigrated past this trap. At the trap near Cherry Road, west of Bruella Road bridge in Victor, California a total of 13,618 naturally produced juvenile Chinook salmon have been captured; there are no migration estimates due to trap calibration issues. At the trap at Vino Farms, east of Elliot Road bridge, a total of 67,919 naturally produced, juvenile Chinook salmon have been captured; based on trap calibrations, an estimated 4,600,000 juvenile Chinook salmon have emigrated past this point.

**On April 4, staff met with the North San Joaquin Water Conservation District (NSJWCD) and San Joaquin County to review the budget for the Demonstration Recharge Extraction and Aquifer Management Project.** The cost for EBMUD's portion is higher than originally allocated per the Project Funding Agreement. Since NSJWCD is currently under budget for the pipeline portion of the project, the parties agreed to reallocate the budget to cover EBMUD's higher costs.

**On April 10, staff and the City of Hayward met with Alameda County Water District (ACWD) to discuss building a hydrogeologic model of the East Bay Plain groundwater basin.** ACWD agreed to provide data, including its modeling files for the Niles Cone Basin. The East Bay Plain model, expected to be completed by the end of 2020, will be used to develop a Groundwater Sustainability Plan as required by the Sustainable Groundwater Management Act.

**On April 24, the District hosted the Groundwater Sustainability Plan (GSP) Technical Advisory Committee (TAC) meeting.** The TAC is comprised of representatives from cities, counties, nonprofits, and other stakeholder groups in the East Bay Plain basin. The TAC will provide comments and information to support development of the GSP.

**Precipitation.** The East Bay precipitation for April was 0.57 inches (29% of average) and the season total was 25.42 inches (98% of average). The Mokelumne precipitation for April was 2.78 inches (67% of average) and the season total is 58.45 inches (129% of average).

### **Water Releases**

**Camanche Reservoir.** The average rate of Camanche release for April was 2,357 cfs (1,421 cfs generation, 898 cfs sluice, and 38 cfs through the hatchery), and the average flow below Woodbridge Dam was 2,244 cfs, both in excess of the Joint Settlement Agreement "Normal & Above" criteria in order to maintain flood control reservation storage.

**East Bay Reservoirs.** Releases were made from USL Reservoir, Chabot Reservoir, and Lafayette Reservoir in April. The average rate of release from USL Reservoir from April 1 through April 8 was 47 cfs, with a peak rate of 70 cfs. USL Reservoir releases were then reduced to zero for the remainder of the month. The average rate of release from Chabot Reservoir from April 1 through April 8 was 51 cfs, with a peak rate of 75 cfs. Chabot Reservoir releases were then stepped down weekly from 10 cfs to 1 cfs for the remainder of the month to facilitate a District fisheries habitat monitoring project. Lafayette Reservoir releases were maintained at 7 cfs for the entire month of April while the elevation is lowered to accommodate California Department of Water Resources - Division of Safety of Dams restrictions.

### **Water Storage**

**Mokelumne reservoirs storage is 107 percent of average.** As of April 30, 2019, Pardee Reservoir was at 568.4 feet or 109 percent of average, and Camanche Reservoir was at 222.7 feet or 107 percent of average. Combined Pardee and Camanche reservoir storage was 532,000 acre-feet compared to 588,000 acre-feet last year.

**East Bay reservoirs storage is 101 percent of average.** As of April 30, 2019, USL Reservoir was at 457.0 feet or 104 percent of average, San Pablo Reservoir was at 311.1 feet or 106 percent of average, and Briones Reservoir was at 571.5 feet or 97 percent of average. Total terminal reservoir storage was 141,000 acre-feet compared to 139,000 acre-feet last year.

**Mokelumne Aqueducts and Raw Water Pumping Plants.** The average rate of Mokelumne Aqueduct draft for April 2019 was 176 MGD. The Briones refill operation continued in April, and Briones Raw Water Pumping Plant pumped a total of 1,302 MG at an average rate of 43 MGD on three units. Walnut Creek and Moraga Raw Water Pumping Plants remained out of service for the month.

**Water Production.** Average rate of gross water production for April:

	<b>April 2019</b>	<b>April 2018</b>	<b>April 2013</b>	<b>Average of FY 2005-2007</b>
East of Hills	36 MGD	33 MGD	53 MGD	42 MGD
West of Hills	113 MGD	107 MGD	128 MGD	136 MGD
<b>Total</b>	<b>149 MGD</b>	<b>140 MGD</b>	<b>181 MGD</b>	<b>178 MGD</b>
<i>Max Day Production</i>	<i>183 MGD (4/29/2019)</i>	<i>162 MGD (4/30/2018)</i>	<i>220 MGD (4/29/2013)</i>	

*Note: Data are all from preliminary daily operational reports and are subject to revision*

### **WATER QUALITY AND ENVIRONMENTAL PROTECTION**

**Driftwood clean-up on Pardee Reservoir completed for the season.** In April, staff along with crews from Mother Lode Job Training completed driftwood clean-up efforts. The season began in November 2018 and approximately 550 piles (4'x4' in size) were collected and burned.

**In April, the District and Recology terminated the food waste pilot agreement.** In 2015, the District and Recology entered into an agreement to pilot test a process to recover “urban organics,” or food waste from San Francisco black bin waste, for subsequent processing and anaerobic digestion at the Main Wastewater Treatment Plant. During the pilot phase between 2016 and 2018, staff determined that organic material recovered from the waste stream was not sufficient to justify pursuing the project.



**In April, staff completed several vegetation management activities.** Staff removed invasive French broom, poison hemlock and artichoke thistle in the Valle Vista Staging Area in Moraga. The District used cattle to reduce fire fuels, including at the Briones parcel, de Laveaga staging area (near Orinda), the San Pablo Ridge, the Nunes watershed, and the Moraga urban interface. Staff also removed hazardous trees from Old San Pablo Road to the boat launch area.

**On April 3, staff participated in the West Oakland Steering Committee (WOSC) meeting.** The meeting focused on developing targets, metrics and tracking for defined action plan strategies. The WOSC is one of 10 steering committees formed in California as part of AB 617. Under AB 617, the State requires air districts to work with communities to select areas that have a “high cumulative exposure burden” to air toxins and develop community monitoring and/or action plans with the goal of reducing emissions and exposures in over-burdened communities. The WOSC is comprised of representatives from the Bay Area Air Quality Management District, Port of Oakland, Pacific Gas & Electric, City of Oakland, EBMUD, environmental groups and citizen action groups.

**On April 9, staff met with the State Water Resources Control Board (SWRCB) to discuss the proposed statewide toxicity policy.** SWRCB clarified that the toxicity policy is not intended to cover de minimis discharges, and will request an exemption to the toxicity policy for all discharges currently covered by the statewide National Pollutant Discharge Elimination System (NPDES) permit for drinking water discharges when it comes up for adoption in the fall. The toxicity policy still applies to all other NPDES regulated discharges (e.g., SD-1 effluent, Orinda Water Treatment Plant backwash). The SWRCB will provide guidance on whether the toxicity policy applies to recycled water discharges into reservoirs for indirect potable reuse projects.

**On April 17, staff met with the City of Alameda to discuss the development at Alameda Point.** Topics discussed included work flow processes for polluted sites, soil management, permit process, and coordination with regulatory agencies that oversee land use restrictions in this area.

**On April 24, the District’s Sustainability Committee held its annual Earth Day Event.** Vendor participation at the Administration Building increased over 30 percent from last year. Approximately 200 people attended.

**On April 30, staff along with the Regional Board Water Quality Control Board (Regional Board) inspected a District permitted indoor cannabis cultivator.** The Regional Board confirmed the facility is eligible for a waiver under the Cannabis General Order. The District’s inspection found the second phase of the facility build-out was in compliance with the District’s Cannabis Facility Best Management Practices.

**All authorized discharges from the MWWTP were in compliance with the permit limits for the month of April.** This is the 236<sup>th</sup> consecutive month the MWWTP experienced no exceedances.

**The District received two odor reports from the public in April.** Investigation of both complaints determined they were likely attributed to activities associated with the MWWTP outage and the lowering of interceptor levels required to facilitate construction projects. Staff is working to understand the causes of odor releases during these activities and will develop mitigation measures to reduce impacts to our neighbors in West Oakland.

## **INFRASTRUCTURE INVESTMENT**

**Richmond Advanced Recycled Expansion (RARE) Facility Update.** In April, potable water augmentation exceeded recycled water production due to high silica as a result of aging treatment membranes. On April 9, startup testing began on the new caustic feed system to address the low pH excursions from the waste equalization tank to West County Wastewater District.

**In April, staff conducted the annual dam safety inspections of Almond, Argyle No. 2, Central, Danville, Dunsmuir, Leland, Maloney, Moraga, Piedmont, North, San Pablo Clearwell, Seneca, and Sobrante Clearwell Reservoirs.** This completes the annual California Division of Safety of Dams (DSOD) inspection of District open cut distribution reservoirs. DSOD found the dams, reservoirs, and appurtenances satisfactory for continued use.

**In April, staff began pipeline replacement work in the Hilledale Avenue area in Berkeley.** The project will replace approximately 2,600 feet of 6- and 8-inch cast iron pipe with high density polyethylene (HDPE) and mortar lined plastic coated steel pipe. This project is expected to be completed by September 2019.

**Staff completed design of the MWWTP Digester Upgrades Phase 3 Project under SD-356.** This \$17 million construction project includes seismic upgrades, piping improvements, and new membrane covers to provide additional biogas storage and equalization for Digester Nos. 3 and 4. Interior coating repairs will be completed for Digester Nos. 2, 3, 4, and 7. The construction contract is scheduled for Board consideration on July 23, 2019. Construction is expected to be completed in spring 2022.

**Main Breaks in April totaled 46.** The attached table lists the main breaks that were repaired by staff in April, sorted by city and street. The associated map shows the location of the breaks.

## **CUSTOMER AND COMMUNITY SERVICES**

**Proposition 218 Notice and Customer Outreach.** By April 28, the District's Proposition 218 notice was mailed to all customers and property owners in compliance with Article XIII D, Section 6 of the California Constitution.

**Summit Pressure Zone 24-Inch Transmission Pipeline Project Outreach Update.** This project would relocate a large-diameter transmission pipeline from a right-of-way that crosses the Clark Kerr Campus into city streets and relocation of water services serving the Clark Kerr Campus. On April 4, staff met with the University of California (UC), Berkeley administrators to



discuss alternative meter locations, private pipeline improvements to relocate the services, and a reimbursement agreement for UC Berkeley to complete the work on the Clark Kerr Campus. A follow-up meeting will be scheduled once UC Berkeley refines their cost estimate for the proposed work.

**Fatality at Pardee Reservoir.** On April 6, staff responded to call about a cyclist down on Pardee Dam Road near the Pardee Observation Point which resulted in a fatality.

**In April, staff conducted several outreach events for the District's Pollution Prevention (P2) Program.** P2 Program messaging includes what not to flush ("wipes clog pipes," proper disposal of pharmaceuticals) and information regarding the private sewer lateral program. Staff shared P2 Program messaging at the Eskaton Hazel Shirley Manor retirement community in El Cerrito, Albany Senior Center, and Fruitvale San Antonio Senior Center in Oakland. Approximately 170 people attended.

**In April, staff conducted eleven environmental education field trips.** On April 2, a total of 36 second graders from Mills Children School in Oakland learned about reducing fire fuels and removed invasive weeds and cleared willows in the Navy Flat Creek area. On April 3, a total of 50 students from the Pioneer Elementary School in Salt Gulch learned about how our watershed functions and planted willow cuttings in the Mokelumne watershed. On April 4, a total of 13 students from San Lorenzo High School's Druid Environmental Club learned about built and natural environments, highlighting the value of drought-tolerant native plants and supporting healthy ecosystems at Navy Flat Creek. On April 4, a total of 32 kindergarteners from Park Day School in Oakland who collected and grew acorns in November 2018, planted 21 oak trees in the Simas watershed. On April 7, a group of 12 Cub Scouts pulled invasive French broom at the Valle Vista staging area. On April 9, a total of 20 students from the Bentley School in Lafayette learned how to use trail tools and improved the trail tread, installed water bars and pruned vegetation on the Lakeview trail at San Pablo Reservoir Recreation Area. On April 22, a total of 10 seventh graders from the Orinda Academy removed old tires from San Pablo Creek. On April 16, 18, 23 and 25, a total of 109 students from the Burton Valley School in Lafayette learned about creek restoration and watersheds and planted willow cuttings in the Pavon watershed.

**In April, the District hosted the Oakland Fire Department (OFD) at the MWWTP to conduct a confined rescue training exercise.** Approximately 20 people participated.

**In April, the District received a resource efficiency award from the California Municipal Utilities Association.** The District's Resource Recovery Program was recognized as Best Energy Program – Medium Utility. This award recognizes programs that demonstrate innovative and effective approaches in implementing renewable energy and greenhouse gas reduction strategies.

**In April, the District and staff received awards from the California Water Environment Association.** The Community Engagement and Outreach: Project of the Year award recognized the District's "Watershed to Bay" insert for the East Bay Express. The insert highlights the

District's work providing safe drinking water and treating wastewater to protect public health and the environment and advertised the September 2018 Coastal Cleanup Day event. The Select Society of Sanitary Sludge Shovelers Award recognized staff active in protecting the water environment through participation in local, state, and/or federally sponsored activities.

**On April 8, staff met with Phillips 66 Refinery (Refinery) to continue discussions regarding the Crockett Aqueduct Pipelines in Rodeo.** The meeting focused on the District's letter regarding encroachments, agreement violations, and public health and safety hazard concerns for the existing 24-inch and 48-inch aqueducts located on District property traversing the Refinery. The Refinery identified some proposed improvements, such as marking the water mains on their property and removing some minor encroachments. Staff will evaluate their recommendations and will meet with the Refinery over the next few months.

**On April 11, staff presented at the California Water Environment Association's annual meeting in Palm Springs.** The presentation topic included the selection and implementation of an information management system for utility laboratories.

**On April 11, staff presented at the West County Forum in San Pablo.** The presentation included information on the District's water supply, environmental protections, climate change, infrastructure investments, customer programs and financial stability. Approximately 25 people attended.

**On April 13, the District held its annual Longest Mile Wildflower Hike.** Staff, along with four volunteers, led visitors along the Mokelumne Coast to Crest Trail above Pardee Reservoir. Approximately 30 people attended.

**On April 16, staff presented at the East Richmond Heights Municipal Advisory Council.** The presentation included information on the District's water supply, environmental protections, climate change, infrastructure investments, customer programs and financial stability. Approximately 15 people attended.

**On April 17, staff presented at the Neil Armstrong Elementary School's Earth Day event in San Ramon.** The presentation included information on the District's water supply, conservation and wastewater services. Approximately 600 people attended.

**On April 18, staff presented at the West Oakland Neighbors meeting.** The presentation included information on the upcoming pipeline replacement project in the Helen Street area. The project will install 11,000 feet of 6- and 8-inch iPVC pipe. The project is scheduled to begin late this spring. Approximately 30 people attended.

**On April 20, staff participated in the City of Alameda's Earth Day event.** Staff provided information on the P2 Program messaging including what not to flush ("wipes clog pipes," proper disposal of pharmaceuticals) and information on the private sewer lateral program. Approximately 400 people attended.

**On April 30, staff presented to the Kensington Municipal Advisory Council.** The presentation included information on the District's water supply, environmental protections, climate change, infrastructure investments, customer programs and financial stability. Approximately 30 people attended.

**Media.** Staff responded to media inquiries about rates and drought surcharges, a hit hydrant in Oakland, Board member salaries, a drought response overview, and a controlled burn near San Pablo Reservoir.

**Social Media:**

Social Platform	Popular Topic	Impression Generation	# Followers	Increase Over Last Month
Twitter	Recognition of Cesar Chavez Day	815	2,567	26
Facebook	Take Our Sons to Work Day	340	928	5
LinkedIn	Career profile of a heavy equipment operator	714	4,513	56
Nextdoor	MacArthur Davenport Pipeline Project	Provided to residents in Oakland		

**Staff conducted public outreach to neighbors and interested parties on the following projects:**

- Bayfair Pumping Plant and Peralta Regulator Replacements and Peralta, South and May Pumping Plant Demolition (Oakland and San Leandro)
- Carisbrook Reservoir and Skyline Pumping Plant Replacements (Oakland)
- Creed Road Pipeline Replacement (Oakland)
- Estudillo Pipeline Replacement (San Leandro)
- Fire Trail and Jensen Pumping Plant Rehabilitation (Castro Valley)
- Helen Cluster Pipeline Replacement (Oakland)
- MacArthur Davenport Pipeline Replacement (Oakland)
- North Interceptor Relief Sewer SD-401 (Berkeley)
- San Pablo Clearwell Replacement (Kensington)
- Trench Soils Removal (Castro Valley)
- Westside Pumping Plant Replacement Project (Orinda)
- Wildcat Pipeline Replacement (Berkeley)

**Customer Assistance Program (CAP) Update.** The attached two tables list monthly statistics on CAP enrollment, delinquencies, payment plans, shut-offs and service restoral for disconnect for non-payment.



### **Contract Equity**

#### **Staff participated in the following business community events:**

- April 2 - Oakland Latino Chamber, *April Networking Mixer* – 45 attended
- April 9 - American Indian Chamber of Commerce of California *Corporate Advisory Committee Meeting*, Teleconference – 22 attended
- April 9 - Construction Resource Center *Industry Advisory Committee Meeting*, Richmond – 13 attended
- April 19 - Oakland Latino Chamber of Commerce *April Board Meeting* – 13 attended
- April 24 - American Indian Chamber of Commerce of California *Northern California Meeting & Legislative Day*, Sacramento – 15 attended

### **Water Conservation**

**On April 11, staff participated on a panel in the ReScape California's speaker series in Oakland.** The panel included various Bay Area environmental planners and discussed how to address water industry response to climate change. Approximately 30 people attended.

**On April 24, staff participated in the *Tasting a Sustainable Future: Piedmont Climate Action Fair and Reception: City of Piedmont*.** Staff provided information on water conservation services including rebate programs and water-saving tips. Approximately 150 people attended.

**On April 27, the District held a workshop, in partnership with East Bay Regional Park District (EBRPD) on maintaining low-water gardens in Alameda.** The workshop utilized EBRPD's low-water demonstration garden to teach residents about garden maintenance strategies such as pruning, dividing plants, sheet mulching for weed control, and adjusting watering schedules. Staff provided information on the District's Landscape Rebate Program and mulch coupons. Approximately 20 people attended.

**On April 27, staff participated in StopWaste's West Oakland Earth Day event.** Staff provided information on do-it-yourself home leak detection tips, low-water use gardening assistance and rebates and the Customer Assistance Program. Approximately 50 people attended.

#### **Staff participated in the following business community events:**

- April 14 - Oakland Zoo, *Earth Day Celebration* – 6,000 attended
- April 22 - Contra Costa College, *Earth Day Fair*, San Pablo – 1,000 attended

## **WORKFORCE PLANNING AND DEVELOPMENT**

**In April, the District held a Take Our Sons to Work Day event.** This year's theme was "Full STEAM (Science, Technology, Engineering, Art, and Math) Ahead!" Approximately 200 boys participated in the Bay Area and upcountry. In the morning, all boys were given an orientation that included a video about the District's water, an overview of safety, and instructions for activities taking place throughout the day. The boys went on one of the following tours: Water Distribution Planning, Geographical Information Systems, San Pablo Reservoir Recreation Area, Lafayette Reservoir Recreation Area, Orinda Watershed Area Wildflower Hike, Guardians of the Bay, Maintenance Shops, or Pipeline Rebuild Experience/Paving. Finally, the boys attended a Wrap-Up Reception with a District-oriented trivia game and prizes. The participants were asked to complete an evaluation form that will assist in improving future events.

**Staff participated in events/activities that support the District's long-term efforts to develop a diverse pipeline of candidates for our future workforce and strengthen collaboration with local partner organizations as follows:**

- **April 12 - staff provided a tour of the Orinda Water Treatment Plant for students from Los Medanos College (LMC) in Pittsburg.** The students in the LMC's Process Technology (PTEC) Program and their professor learned about water operations and related careers at the District. Approximately 15 people attended.
- **April 16 - staff participated in the Chabot College Career and Networking Fair in Hayward.** Staff provided information on the District's application and recruitment process and career pathways in the water and wastewater industry. Approximately 100 people attended.
- **April 18 - staff participated in the Society of Women Engineers' (SWE) Evening with Industry at San Francisco State University.** Staff provided information on career pathways relevant to water and wastewater engineering and employment opportunities at the District.
- **April 19 - staff attended the Berkeley Public Schools Fund Spring Luncheon.** The District was recognized for its support in the development and success of the Electronic Instrumentation ("Mechatronics") lab and afterschool program. This program provides an educational pathway for high school students to transfer into the Electrical & Instrumentation Technology Program at Los Medanos College.
- **April 23 - staff participated in Laney College's Advanced Manufacturing/Skilled Trades Job Fair in Oakland.** Staff provided information on the District's application and recruitment process and career pathways in skilled trades. Approximately 50 people attended.

- **April 25 - staff conducted a tour of the Main Wastewater Treatment Plant for representatives from Oakland-area community workforce development organizations.** Staff provided information on District career and employment opportunities. Staff also discussed potential partnership strategies for civil service test-prep efforts.

#### **Tuition Reimbursement**

	April 2019	FY19 Total
# of Employees	21	198
# of Classes	23	248
Total Reimbursed	\$19,080	\$176,741

#### **Employment Information**

	April 2019	FY19 Total
Retirements – Regular	9	70
Retirements – Vested	0	6
Hires/Rehires	9	165
Other Separations	3	53

#### **FINANCIAL STABILITY**

**There were no material, supply or construction contracts from \$80,001 to \$100,000 approved by the General Manager in April 2019.**

**The construction contract with Farwest Corrosion Control for the Mokelumne Aqueducts Cathodic Protection Improvements Project requires an increase in the change order contingency.** This increase is needed to install remote monitoring units at the remaining 42 cathodic protection stations to enhance the corrosion protection for the aqueducts. It is estimated that the change order contingency will need to be raised to \$177,750 or 45 percent of the original contract amount of \$395,000.

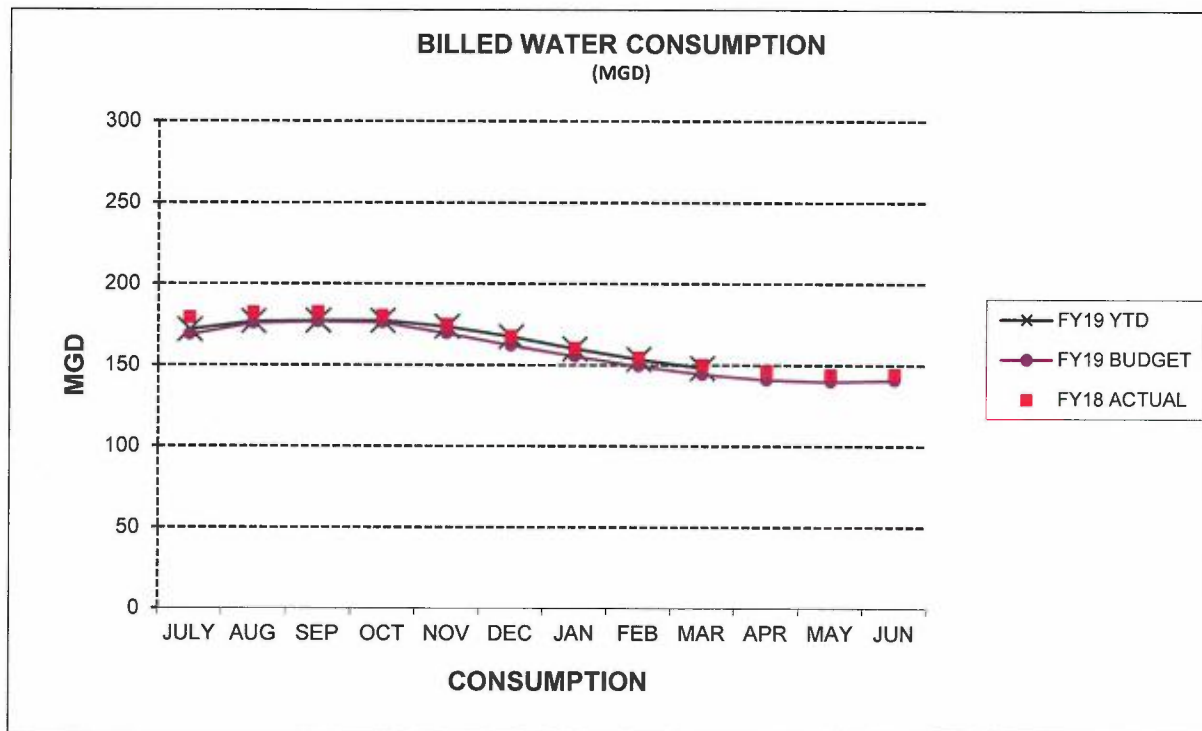
**The estimated Net Mokelumne Power Revenue for April was \$1,292,323.** The District sold renewable power and related Renewable Energy Credits (REC) to MCE. Sales of RECs generated \$282,360. Resource Adequacy capacity revenue from 3Phases Renewables Inc. totaled \$37,977. Net Mokelumne power revenue through April is estimated at \$8,171,679 which is 221 percent of the FY19 budgeted \$3,700,000. The FY19 total revenue forecast is \$10.2 million.



### Water Sales (Consumption)

The following consumption information is the average water consumption in million gallons per day (MGD) for the first nine months of FY19. Budgeted FY19 average daily water consumption is 141 MGD, with higher consumption in the first half of the fiscal year due to outdoor watering. The table below shows the average billed water consumption information by customer class with a comparison to FY18 data for the same period. FY19 water consumption to date is slightly lower than FY18 water consumption.

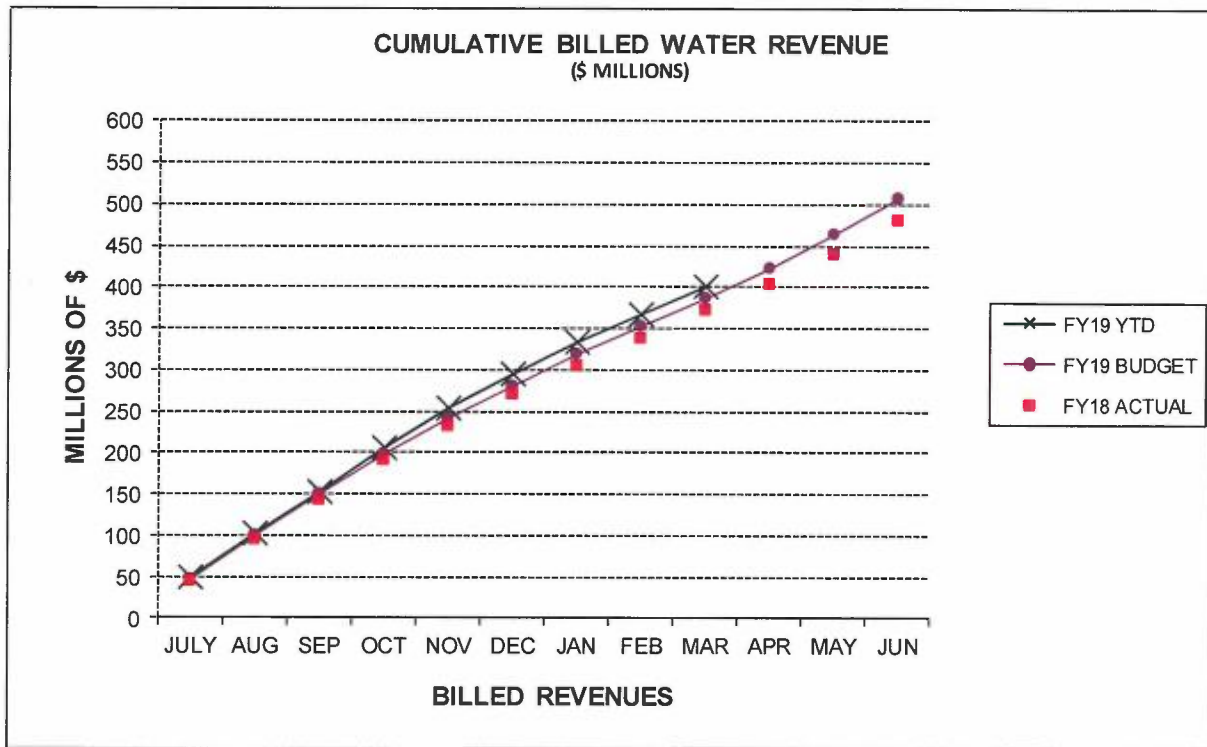
<b>Fiscal Year-to-Date Billed Water Consumption</b>			
<b>Usage Type</b>	<b>FY19 (MGD)</b>	<b>FY18 (MGD)</b>	<b>Year-over-Year (% change)</b>
Residential	76.1	77.4	-1.7%
Commercial	48.5	49.9	-2.8%
Industrial	16.9	16.2	4.3%
Public Authority	6.6	6.8	-2.9%
<b>Total Billed Water Consumption</b>	<b>148.1</b>	<b>150.3</b>	<b>-1.5%</b>



Source: Customer Information System

### Water Sales Revenue

Water revenue billed through March was \$401.7 million or approximately 8.2 percent greater than the FY18 March revenue of \$371.2 million. Total FY19 water revenue through March was greater than budgeted water revenue of \$387.3 million by \$14.4 million or 3.7 percent.



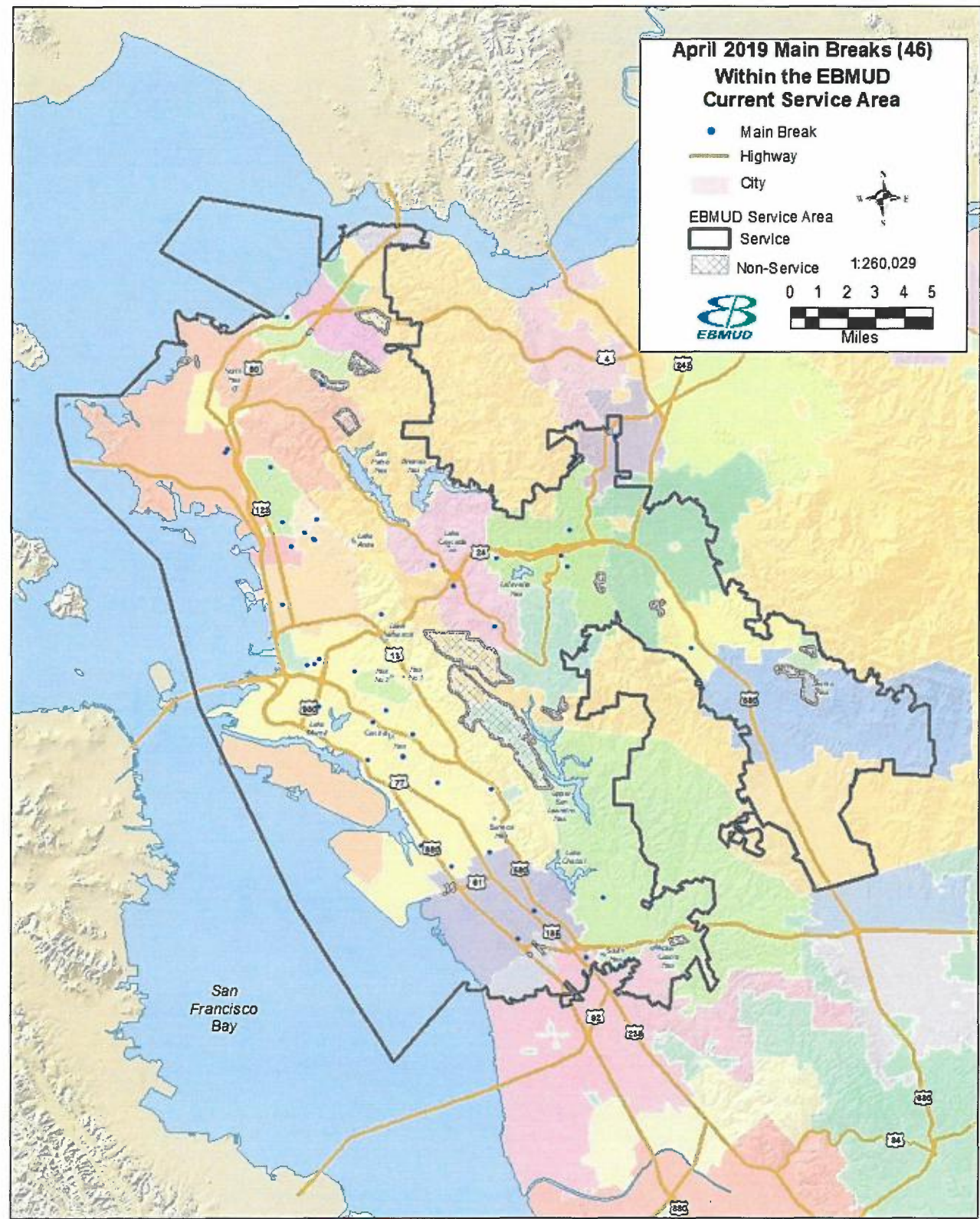
Source: Customer Information System

APRIL 2019 MAIN BREAKS										
City	Pre	Street	Suf	Pipe Material	Pipe Diameter	Year Installed	Est Water Loss (Gal)	Identified On	Completed On	KPI Met?
ALAMO		DENYCE	CT	ASBESTOS CEMENT	6.00	1957	2250	4/11/2019	4/11/2019	Yes
ALBANY		WASHINGTON	AVE	ASBESTOS CEMENT	8.00	1948	900	4/16/2019	4/16/2019	Yes
BERKELEY		8 <sup>TH</sup>	ST	CAST IRON	6.00	1940	5760	4/23/2019	4/26/2019	Yes
BERKELEY		ARLINGTON	AVE	STEEL	2.00	1923	0	4/17/2019	4/22/2019	Yes
BERKELEY		GRAND VIEW	DR	STEEL	12.00	1962	0	3/26/2019	4/2/2019	Yes
BERKELEY		SAN DIEGO	RD	STEEL	8.00	1958	0	4/3/2019	4/8/2019	Yes
BERKELEY		THE ALAMEDA		CAST IRON	4.00	1931	9000	4/5/2019	4/5/2019	Yes
CASTRO VALLEY		WALNUT	RD	CAST IRON	6.00	1932	7200	4/18/2019	4/18/2019	Yes
EL CERRITO		CENTRAL	AVE	CAST IRON	6.00	1948	5760	4/22/2019	4/25/2019	Yes
EL CERRITO		CUTTING	BL	ASBESTOS CEMENT	8.00	1967	72000	4/20/2019	4/20/2019	Yes
EMERYVILLE		41 <sup>ST</sup>	ST	CAST IRON	4.00	1934	4500	4/13/2019	4/13/2019	Yes
HAYWARD		ASH	ST	CAST IRON	6.00	1948	17280	4/17/2019	4/22/2019	Yes
KENSINGTON		BELOIT	AVE	CAST IRON	6.00	1938	18000	4/14/2019	4/14/2019	Yes
LAFAYETTE		1 <sup>ST</sup>	ST	CAST IRON	6.00	1952	23040	4/22/2019	4/29/2019	Yes
LAFAYETTE		BROWN	AVE	CAST IRON	6.00	1947	9000	4/14/2019	4/15/2019	Yes
LAFAYETTE		DIABLO	CIR	ASBESTOS CEMENT	6.00	1975	900	4/17/2019	4/18/2019	Yes
LAFAYETTE		TOPPER	LN	ASBESTOS CEMENT	6.00	1948	8640	4/12/2019	4/17/2019	Yes
OAKLAND		22 <sup>ND</sup>	ST	CAST IRON	8.00	1954	21600	3/28/2019	4/11/2019	No
OAKLAND		47 <sup>TH</sup>	ST	CAST IRON	6.00	1934	27000	4/13/2019	4/13/2019	Yes
OAKLAND		CREED	RD	CAST IRON	4.00	1937	18000	4/25/2019	4/25/2019	Yes
OAKLAND		DAVIS	ST	CAST IRON	6.00	1925	1350	4/27/2019	4/27/2019	Yes
OAKLAND		DAVIS	ST	CAST IRON	6.00	1925	2700	4/28/2019	4/28/2019	Yes
OAKLAND		DOUGLAS	AVE	CAST IRON	6.00	1957	34560	4/19/2019	4/30/2019	Yes
OAKLAND		DURANT	AVE	CAST IRON	6.00	1927	40320	3/15/2019	4/11/2019	Yes
OAKLAND		EDGEWATER	DR	ASBESTOS CEMENT	8.00	1966	13500	4/29/2019	4/29/2019	Yes
OAKLAND		GEORGIA	ST	CAST IRON	6.00	1939	0	4/4/2019	4/4/2019	Yes
OAKLAND		INTERNATIONAL	BL	CAST IRON	4.00	1934	0	4/18/2019	4/25/2019	Yes
OAKLAND		KELLER	AVE	CAST IRON	8.00	1927	10080	4/17/2019	4/23/2019	Yes

*\*KPI = turn around time to repair the leak*

APRIL 2019 MAIN BREAKS										
City	Pre	Street	Suf	Pipe Material	Pipe Diameter	Year Installed	Est Water Loss (Gal)	Identified On	Completed On	KPI Met?
OAKLAND		MACARTHUR	BL	STEEL	8.00	1963	25920	4/18/2019	4/23/2019	Yes
OAKLAND		MARKET	ST	CAST IRON	6.00	1909	7200	4/15/2019	4/19/2019	Yes
OAKLAND		PLEASANT VAL	AVE	CAST IRON	8.00	1962	4500	4/16/2019	4/16/2019	Yes
OAKLAND		WALNUT	ST	CAST IRON	6.00	1922	900	4/29/2019	4/29/2019	Yes
ORINDA		BIRCH	CT	STEEL	6.00	1958	1350	4/11/2019	4/11/2019	Yes
ORINDA		BIRCH	CT	STEEL	6.00	1958	0	4/12/2019	4/24/2019	Yes
ORINDA		LA NORJA		CAST IRON	4.00	1934	20160	4/23/2019	4/29/2019	Yes
ORINDA		MARIPOSA	LN	CAST IRON	4.00	1934	6750	4/15/2019	4/15/2019	Yes
ORINDA		MARIPOSA	LN	CAST IRON	4.00	1934	1800	4/15/2019	4/16/2019	Yes
ORINDA		VALLEY VIEW	DR	CAST IRON	6.00	1942	11520	4/10/2019	4/17/2019	Yes
PINOLE		ORLEANS	DR	ASBESTOS CEMENT	6.00	1956	5760	4/9/2019	4/12/2019	Yes
PLEASANT HILL		MERCURY	WAY	ASBESTOS CEMENT	12.00	1957	0	4/8/2019	4/11/2019	Yes
PLEASANT HILL		MERCURY	WAY	ASBESTOS CEMENT	12.00	1957	0	4/11/2019	4/16/2019	Yes
RICHMOND		37 <sup>TH</sup>	ST	CAST IRON	6.00	1933	7200	4/16/2019	4/16/2019	Yes
RICHMOND		38 <sup>TH</sup>	ST	CAST IRON	6.00	1941	10080	4/18/2019	4/24/2019	Yes
RICHMOND		MORNINGSIDE	DR	ASBESTOS CEMENT	6.00	1979	1800	4/25/2019	4/26/2019	Yes
SAN LEANDRO		HALSEY	AVE	CAST IRON	4.00	1948	9000	4/22/2019	4/23/2019	Yes
SAN LEANDRO		WASHINGTON	AVE	STEEL	16.00	1979	0	4/22/2019	4/22/2019	Yes
<b>Total</b>							<b>467,280</b>			



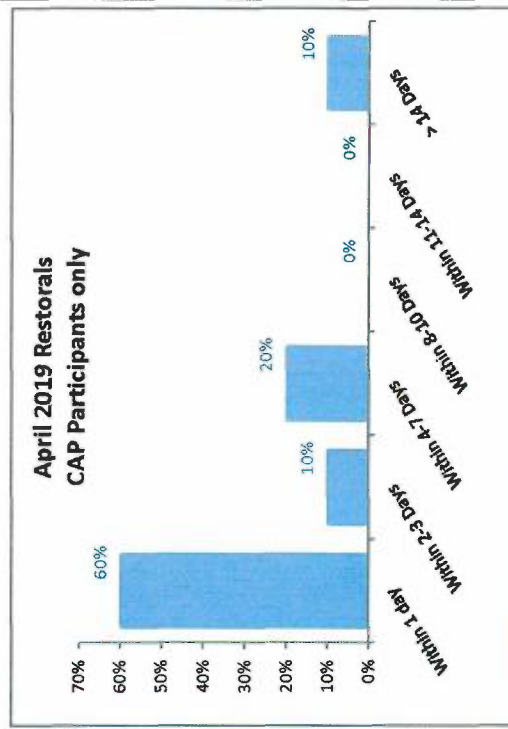
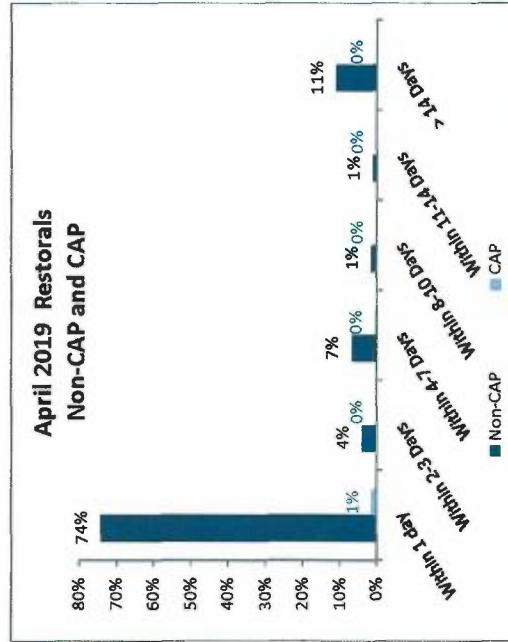




Customer Account Delinquency Information															
April 2019															
(Data collection began September 1, 2017)															
CUSTOMER ASSIST. PROGRAM (CAP) ENROLLMENT	January	February	March	April	Totals										
New CAP Participants	144	142	136	132	2,989										
CAP Renewals	160	134	170	142	2,787										
CAP Departures	179	119	185	149	2,557										
Total Active CAP Participants w/Active Accounts	6,851	6,894	6,893	6,873											
PAYMENT PLANS	January	February	March	April	Totals										
Approved Payment Plans	5,419	4,665	4,577	4,802	100,819										
Payment Plans Established After Service Interruptions	48	20	6	13	955										
SERVICE INTERRUPTIONS - RESIDENTIAL	January	February	March	April	Totals										
15-day Final Collection Notices	14,731	14,366	15,499	15,598	313,654										
48-hr Service Interruptions Notices	8,958	8,056	7,001	8,977	163,547										
Service Interruption Orders Created	3,832	2,472	2,202	2,512	53,251										
Service Interruptions Completed (Actual)	1,101	240	628	631	14,726										
CAP Enrolled Service Interruptions	41	6	17	17	569										
WATER THEFT	January	February	March	April	Totals										
No. of Incidents	20	6	6	13	205										
No. of 2nd or 3rd Occurrences	3	0	1	1	14										
No. Water Theft Penalties Issued	10	3	3	8	134										
No. of Appeals Received	1	-	-	-	7										
No. of 1st Appeals Approved	1	-	-	-	4										
No. of 1st Appeals Denied	-	-	-	-	5										
Multi-Family Liens <sup>1</sup>	January	February	March	April	Totals										
Liens Filed	130	149	0	333	2,681										
Released	48	31	34	37	982										
Transferred to Alameda Cty.	-	-	-	-	1,356										
Transferred to Contra Costa Cty.	-	-	-	-	303										
Total/Month	178	180	34	370	5,322										
<sup>1</sup> Liens filed monthly represents delinquent accounts 4-6 months in arrears.															
BAD DEBT - WRITE OFFS	January	February	March	April	Totals										
Total Referred to Collection Agency	\$136,294	\$126,371	\$148,395	TBD <sup>2</sup>	\$ 2,967,726										
Write-Off % to Billed Revenue	0.31%	0.30%	0.36%	TBD <sup>2</sup>											
<sup>2</sup> Information not available until the 20th of the month and will lag one month															
Water Theft Type/City	Alameda	Albany	Berkeley	Danville	Hayward	Hercules	Oakland	Pinole	Richmond	Rodeo	San Lorenzo	San Leandro	San Pablo	San Ramon	Total as of 9/1/2017
Meter	2	1	5	1	3	1	143	3	32	5	1	3	1	2	203
Illegal Connection	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2
Hydrant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Total	2	1	5	1	3	1	145	3	32	5	1	3	1	2	205

Restoral for Service Interruptions for Non-Payment									
April 2019									
(Data collection began July 1, 2018)									
	February			March			April		
	Total	Non-CAP	CAP	Total	Non-CAP	CAP	Total	Non-CAP	CAP
Within 1 day/Self-Restore	264	254	10	592	576	16	375	369	6
Within 2-3 Days	23	23	0	21	21	0	21	20	1
Within 4-7 Days	27	27	0	25	24	1	35	33	2
Within 8-10 Days	9	9	0	10	9	1	7	7	0
Within 11-14 Days	7	7	0	3	3	0	5	5	0
> 14 Days	18	16	2	24	24	0	55	54	1
<b>Totals</b>	<b>348</b>	<b>336</b>	<b>12</b>	<b>675</b>	<b>657</b>	<b>18</b>	<b>498</b>	<b>488</b>	<b>10</b>

Note : Number of April Service Interruptions (CAP Service Interruptions): 631 (17)



DATE: May 9, 2019

MEMO TO: Board of Directors

THROUGH: Alexander R. Coate, General Manager *ARC*

FROM: Rischa S. Cole, Secretary of the District *RC*

SUBJECT: Sustainability/Energy Committee Minutes – April 23, 2019

Chair Doug Linney called to order the Sustainability/Energy Committee at 9:30 a.m. in the Training Resource Center. Director Frank Mellon was present at roll call. Director Andy Katz arrived at 9:41 a.m. Staff present included General Manager Alexander R. Coate, General Counsel Craig S. Spencer, Director of Operations and Maintenance Clifford C. Chan, Director of Wastewater Eileen M. White, Manager of Maintenance and Construction/Water Operations David A. Briggs, Manager of Regulatory Compliance David M. Woodard, Senior Civil Engineer David V. Beyer, Associate Civil Engineer Michael J. Hyatt, Special Assistant to the General Manager Kelly A. Zito, and Secretary of the District Rischa S. Cole.

**Public Comment.** None.

**Photovoltaic (PV) Update.** Senior Civil Engineer David V. Beyer presented an update on the District's PV projects and discussed the pros and cons of installing floating PVs. The District has nine PV projects and a tenth project adjacent to Camanche Dam is scheduled to be completed in May 2019. This 363 kilowatt system, initiated through a Power Purchase Agreement (PPA) with SolarCity (now Tesla), will operate under Pacific Gas and Electric's (PG&E) Net Energy Metering Aggregation program and will supply power to District facilities in the Camanche and Pardee areas including the Mokelumne River Fish Hatchery. Combined, the ten projects will provide nearly two megawatts (MW) of PV capacity and will produce up to 3,200 MW-hours of electricity annually or about two percent of the District's total annual energy use. He reviewed the status of the two large-scale PV projects proposed for the Duffel site in Orinda and the Navy Flat site north of Castro Valley and a third potential site adjacent to Amador Reservoir in San Ramon. Staff presented the Duffel site project to the Orinda City Council on March 6. The Board will be asked to consider three separate actions for the Duffel site: in August 2019, approval of the interconnection agreement with PG&E and approval of a PPA, and in November, approval of the CEQA documentation. The Navy Flat site project approval process will begin after PG&E completes its interconnection study. Following Alameda County's review of the project application, the District will present the project to the Castro Valley Municipal Advisory Council, which would make a recommendation to the Alameda County Board of Zoning Adjustments. In conjunction with the work on the two aforementioned projects, staff will continue evaluating the feasibility of siting a project near the Amador Reservoir which could support an installation of up to 3 MW and may prove to be more feasible than the Navy Flat site. Mr. Beyer noted that the District will not likely implement more than two large-scale PV projects. Director Mellon asked staff to keep him updated on communications with the Castro Valley Municipal Advisory Council regarding the Navy Flat site project.



**Climate Action Policy.** Manager of Regulatory Compliance David M. Woodard reviewed the latest version of the draft policy. Based on feedback received during the February 26, 2019 Sustainability/Energy Committee meeting, staff updated the policy to include references to sustainability (i.e., the triple bottom line which addresses social, environmental, and financial factors), the District's Climate Change Monitoring and Response Plan, and environmental, social, and governance factors in the management of the District's retirement system. The policy will be reviewed with the Finance/Administration Committee on May 28, 2019 and presented to the full Board for consideration on June 11, 2019. In addition, staff is updating the District's Climate Change Monitoring and Response Plan and Policy 7.07 - Energy. The revised plan and Policy 7.07 will be presented at the next Sustainability/Energy Committee meeting. Mr. Woodard responded to Committee comments regarding policy language pertaining to the triple bottom line and a request to consider the social cost of carbon during decision making processes. Information on the social cost of carbon will be included in the updated Policy 7.07.

**Wastewater Biogas Utilization Update.** Associate Civil Engineer Michael J. Hyatt provided an update on the status of a proposed biogas upgrade project at the Main Wastewater Treatment Plant (MWWTP). This project was discussed at the February 26, 2019 Sustainability/Energy Committee meeting. As reported in February, the District was poised to accept a \$3 million grant from the California Energy Commission (CEC) for the project; however, after evaluating project risk factors including potential impacts of PG&E's bankruptcy proceedings and loss of a regulatory exemption, staff notified the CEC that the District would not be going forward with a project and would have to decline the grant award. He explained how the regulatory exemption, which applies to the MWWTP as long as biogas is used as a fuel onsite or held onsite for retail sale as a fuel, impacts other potential biogas projects. Because the District is not pursuing the proposed biogas upgrade project, staff will refocus the goals for the Resource Recovery (R2) Program and will need to adjust strategies to address biogas flaring. He reviewed the steps staff is taking to reduce flaring in the near term and alternatives being explored for longer term program growth. In response to suggestions to explore alternative uses for biogas raised during the February 26, 2019 Sustainability/Energy Committee meeting, Mr. Hyatt discussed the possibility of expanding Power Generation Station capacity, selling power to East Bay Community Energy, partnering with AC Transit on a mutual project, and exploring if the CEC grant could be used for a hydrogen project. The Committee discussed the information presented and asked staff to continue exploring renewable natural gas and hydrogen projects and potential collaborative projects with AC Transit. In addition, staff was asked to include break even costs for expanding the R2 Program and information on tax credits in a future program update.

**Adjournment.** Chair Linney adjourned the meeting at 10:31 a.m.

ARC/RSC

## EAST BAY MUNICIPAL UTILITY DISTRICT

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DATE: May 9, 2019

MEMO TO: Board of Directors

THROUGH: Alexander R. Coate, General Manager *ARC*

FROM: Rischa S. Cole, Secretary of the District *RC*

SUBJECT: Finance/Administration Committee Minutes – April 23, 2019

Chair William B. Patterson called to order the Finance/Administration Committee meeting at 10:34 a.m. in the Training Resource Center. Directors John A. Coleman and Andy Katz were present at roll call. Staff present included General Manager Alexander R. Coate, General Counsel Craig S. Spencer, Director of Finance Sophia D. Skoda, Manager of Customer and Community Services Andrew L. Lee, Customer Services Manager William A. Sharp, Principal Management Analyst Damien R. Charlety, Special Assistant to the General Manager Kelly A. Zito, and Secretary of the District Rischa S. Cole.

**Public Comment.** None.

**Quarterly Financial Reports.** Director of Finance Sophia D. Skoda reported that the quarterly reports were filed in compliance with government statutes. The reports cover investment transactions along with quarterly payroll, disbursements and real estate summary reports for the Water and Wastewater Systems during the period January 1 through March 31, 2019. She highlighted the transactions and corresponding projects contained in the real estate report and said the District's investments were currently earning approximately 2.2 percent in interest. The Committee raised no questions. It was moved by Director Coleman, seconded by Director Katz and carried (3-0) to accept the reports.

**Monthly Investment Transactions Reports.** Director of Finance Sophia D. Skoda reviewed the reports for February and March 2019 which will be presented to the Board for consideration at its meeting in the afternoon. The Committee raised no questions. It was moved by Director Coleman, seconded by Director Katz and carried (3-0) to forward the reports to the Board for consideration.

**Investment Policy Annual Review.** Principal Management Analyst Damien R. Charlety reviewed the proposed changes to Investment Policy 4.07 which was last revised in April 2018. The policy has been revised to ensure its continued compliance with the California Government Code and some sections have been added as a best practice. Key changes include: clarification on yield criteria; the Finance Director's delegation authority; the review process for money market mutual funds; new language regarding performance measurements; and requirements for purchasing entities to provide annual financial statements. The revised policy will be presented to the Board for consideration at its meeting in the afternoon. The Committee raised no questions. It was moved by Director Coleman, seconded by Director Katz and carried (3-0) to forward the revised policy to the Board for consideration.

**Electronic Bill Presentment and Payment and Payment Processing Update.** Customer Services Manager William A. Sharp presented an overview of the District's various bill payment options, payment trends since 2015, and staff's evaluation of options to prevent disruptions to the District's

current system for processing mailed-in payments in the event of an emergency. The District's operation depends on uninterrupted payment processing. Staff can process electronic payments at any location with access to a computer workstation and will test processing electronic payments at an offsite location in July. Currently, mailed-in payments are processed in the Administration Building using a single set of processing machines that are reaching the end of their useful lives. If the Administration Building becomes inaccessible, processing mailed-in payments will be compromised and incoming revenue will be impacted by approximately \$5.3 million per week. Staff evaluated various options to achieve business continuity for processing mailed-in payments and recommends using a third-party lockbox processor. This option will eliminate the need to purchase and maintain new processing machines and will allow continued processing of mailed-in payments in the event the Administration Building becomes inaccessible. He discussed how the process would work and how, similar to the current workflow, staff would review all mailed-in payments that could not automatically be processed by the lockbox processor. The costs for a lockbox processor are based on the number of statements processed and as more customers move to electronic payments, the total amount the District spends to process mailed-in payments will decrease. Staff will develop project requirements and issue a Request for Proposals for a lockbox processing solution. Addressing the Committee was Mark Foley, President, AFSCME Local 2019 who commented the union supports staff's recommendation but is concerned about how the change will impact the staff that processes mailed-in payments going forward. Mr. Sharp responded to Committee questions about communications with the union; how the *Customer Pipeline* newsletter is distributed to customers that pay their bills online and how often it is accessed; and plans for alternative distribution of the newsletter as mailed-in payments decline.

**Adjournment.** Chair Patterson adjourned the meeting at 11:02 a.m.

ARC/RSC