





SDLF Platinum-Level of Governance

President - Bill Pease • Vice-President - Bryon Gutow • Director - Kevin Graves • Director - Robert Leete • Director - Bill Mayer

NOTICE OF THE REGULAR MEETING OF THE STANDING FINANCE COMMITTEE OF THE TOWN OF DISCOVERY BAY Wednesday, April 1, 2020 3:30 P.M. - 4:30 P.M.

Website address: www.todb.ca.gov

Finance Committee Members

Chair Robert Leete Vice-Chair Bill Mayer

NOTICE Coronavirus COVID-19

In accordance with the Governor's Executive Order N-33-20, and for the period in which the Order remains in effect, the Town of Discovery Bay Community Services District Committee Chambers will be closed to the public.

To accommodate the public during this period of time that the Committee's Chambers are closed to the public, the Town of Discovery Bay Community Services District Committee Members have arranged for members of the public to observe and address the meeting telephonically.

TO ATTEND BY TELECONFERENCE:
Toll-Free Dial-In Number: (866) 848-2216

CONFERENCE ID 5193676302#

Go to https://my.intercall.com/9tc7rcq
Once connected to Unified Meeting:
Select – I Will Call
Click on Join Meeting

Download Agenda Packet and Materials at www.todb.ca.gov/

A. ROLL CALL

- 1. Call business meeting to order 3:30 p.m.
- 2. Roll Call.

B. PUBLIC COMMENTS (Individual Public Comments will be limited to a 3-minute time limit)

During Public Comments, the public may address the Committee on any issue within the District's jurisdiction which is not on the Agenda. The public may comment on any item on the Agenda at the time the item is before the Committee for consideration. Any person wishing to speak will have 3 minutes to make their comment. There will be no dialog between the Committee and the commenter as the law strictly limits the ability of Committee members to discuss matters not on the agenda. We ask that you refrain from personal attacks during comment, and that you address all comments to the Committee only. Any clarifying questions from the Committee must go through the Chair. Comments from the public do not necessarily reflect the view point of the Committee members.

C. DRAFT MINUTES TO BE APPROVED

- 1. February 5, 2020 DRAFT Regular Finance Committee Meeting Minutes.
- 2. February 24, 2020 Special Finance Committee Meeting Minutes.
- 3. March 9, 2020 Special Finance Committee Meeting Minutes.

D. PRESENTATIONS

1. Finance Update.

E. <u>DISCUSSION ITEMS</u>

1. Discussion Regarding Final Rate Study Options.

F. FUTURE DISCUSSION/AGENDA ITEMS

G. ADJOURNMENT

1. Adjourn to the next Standing Finance Committee meeting.

"This agenda shall be made available upon request in alternative formats to persons with a disability, as required by the American with Disabilities Act of 1990 (42 U.S.C. § 12132) and the Ralph M. Brown Act (California Government Code § 54954.2). Persons requesting a disability related modification or accommodation in order to participate in the meeting should contact the Town of Discovery Bay, at (925) 634-1131, during regular business hours, at least forty-eight hours prior to the time of the meeting."

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MINUTES OF THE REGULAR MEETING OF THE STANDING FINANCE COMMITTEE OF THE TOWN OF DISCOVERY BAY Wednesday, February 5, 2020 3:30 P.M. - 4:30 P.M. Community Center

1601 Discovery Bay Boulevard, Discovery Bay, California

Website address: www.todb.ca.gov

Finance Committee Members

Chair Robert Leete Vice-Chair Bill Mayer

A. ROLL CALL

- 1. Call business meeting to order 3:30 p.m. By Chair Leete.
- 2. Roll Call All Present.

B. PUBLIC COMMENTS (Individual Public Comments will be limited to a 3-minute time limit) None

C. DRAFT MINUTES TO BE APPROVED

1. December 4 2019 DRAFT Regular Finance Committee meeting minutes – Approved.

D. PRESENTATIONS

1. Finance Update.

Finance Manager Carter – Provided the details for the November 2019 Unaudited Financial Statements, with YTD percent comparison for FY 19. Finance Manager Carter highlighted Zone 8 income from PG&E Dewatering and the income from the Hofman Promissory Note payment received. There was discussion regarding the Dewatering (PG&E disposal of water into the Wastewater system).

E. DISCUSSION ITEMS

1. Discussion Regarding an Update on the Rate Study.

Alison Lechowicz from Lechowicz and Tseng Municipal Consultants – Provided the update regarding the DRAFT Rate Study.

- Water Rate Study Table Capital Improvement Plan (3 options)
 - Annual Rate Revenue Increases:
 - Option 1 Maximum debt financing (\$12.8M)
 - Option 2 Lowest debt financing (\$5M).
 - Option 3 Middle Option; debt financing of \$8M.
 - Cumulative Rate Revenue Increases
 - Option 1 Lowest rate; max debt financing (\$13M)
 - Option 2 Lowest debt financing (\$5M)
 - Option 3 Middle Option; debt financing of \$8M

All of the options listed above; present a combination of revenues, existing water capital, capacity fee revenues, rate revenues and new debt.

Provided additional details regarding each individual table listed on the handout (2020 Water Rate Study Draft Tables). There was discussion regarding Well No. 8.

General Manager Davies – Provided details regarding the future of Well No. 8; working with Pantages (analysis of the location) the site is a suitable location, moving forward with a right of entry for drilling and approximate time frame is 2 years away.

- Sewer Rate Study Table (3 options)
 - Annual Rate Revenue Increases:
 - Option 1 Annual level rate increase; debt financing of \$4M.
 - Option 2 No debt.
 - Option 3 Lowest cumulative rate increases; debt financing of \$3M.
 - Cumulative Rate Revenue Increases
 - Option 1 Annual level rate increases
 - Option 2 Highest rate increases
 - Option 3 Lowest cumulative rate increases

Provided additional details regarding each individual table listed on the handout (2020 Sewer Rate Study Draft Tables). There was discussion regarding Denitrification and Plant No. 1 costs (\$13.8m).

Alison - Lechowicz & Tseng Municipal Consultants – Provided the details regarding the handout Single Family Residential Water Bill Survey and Wastewater Bill Survey.

General Manager Davies – Stated the wastewater placement (economy of scale) is the reason for a higher sewer rate.

Public Comment Regarding:

• Project costs, borrowing funds, reserves, financing the pool (borrowing from the wastewater fund). The discussion continued regarding the Water Rate Study Table options; financing, lowest annual cost to the user, stand-alone well, aging pipes, maintenance and repairs, and the decision for the selection of the 1" water meters.

There was additional discussion regarding a Special meeting to be scheduled.

General Manager Davies – Provided details regarding the Water Quality Control Board new salt requirements study.

There was discussion regarding dates for a Special meeting. The Special Financing Committee meeting is scheduled for Monday, February 24, 2020 at 10:00 a.m.

Public Comment Regarding:

- Prop 218 process.
- 2. Discussion Regarding the Audit.

Finance Manager Carter – Provided an update regarding the Audit (Annual State Filings have been filled on time). There was discussion regarding the Audit Presentation to the Board (March timeframe).

3. Discussion Regarding the Budget Calendar.

Finance Manager Carter – Provided the details regarding the Budget Review meeting dates.

F. FUTURE DISCUSSION/AGENDA ITEMS

- 1. Update on Rate Study by Alison Lechowicz from Lechowicz and Tseng Municipal Consultants on February 24, 2020 at 10:00 a.m. (Special Finance Committee Meeting).
- Solar –To be put on future agenda.

G. ADJOURNMENT

1. The meeting adjourned at 4:20 p.m. to the next Standing Finance Committee meeting at the Community Center located at 1601 Discovery Bay Boulevard.

//cmc - 02-07-2020

http://www.todb.ca.gov/agendas-minutes







SDLF Platinum-Level of Governance

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MINUTES OF THE SPECIAL MEETING
OF THE STANDING FINANCE COMMITTEE
OF THE TOWN OF DISCOVERY BAY
Monday, February 24, 2020
10:00 A.M.
Community Center
1601 Discovery Bay Boulevard, Discovery Bay, California
Website address: www.todb.ca.gov

Finance Committee Members

Chair Robert Leete Vice-Chair Bill Mayer

A. ROLL CALL

- 1. Call business meeting to order 10:03 a.m.
- 2. Roll Call. All Present

B. PUBLIC COMMENTS (Individual Public Comments will be limited to a 3-minute time limit)

During Public Comments, the public may address the Committee on any issue within the District's jurisdiction which is not on the Agenda. The public may comment on any item on the Agenda at the time the item is before the Committee for consideration by filling out a comment form. The public will be called to comment in the order the comment forms are received. Any person wishing to speak will have 3 minutes to make their comment. There will be no dialog between the Committee and the commenter as the law strictly limits the ability of Committee members to discuss matters not on the agenda. We ask that you refrain from personal attacks during comment, and that you address all comments to the Committee only. Any clarifying questions from the Committee must go through the Chair. Comments from the public do not necessarily reflect the view point of the Committee members.

C. DRAFT MINUTES TO BE APPROVED

None

D. PRESENTATIONS

- 1. Finance Manager Julie Carter distributed documents regarding the Water Rate Study and Wastewater Rate Study. Alison Lechowicz from Lechowicz and Tseng Municipal Consultants provided handouts of Draft Sewer Rates Increase, Draft Water Rates Increase and Water Bill Survey. Aforementioned documents were reviewed and options were evaluated by the Committee.
- 2. Assistant General Manager Dina Breitstein provided handouts of Policy 11- Purchasing and Procurement and Policy 15- Disposition of Surplus Property. Assistant General Manager recommends changes to both policies to reflect change in Town needs and align more closely to local municipalities.

E. <u>DISCUSSION ITEMS</u>

1. Discussion Regarding Water and Wastewater Rate Study Update.

Alison Lechowicz from Lechowicz and Tseng Municipal Consultants presented a revised draft of previous study of Water and Wastewater rates. Graphs showed reflected a gradual phase-in of pipeline improvements resulting in a lower rate plan. Prior rate study in 2016 assumed a 12% rate increase and the new draft will be in the middle of rate increase. Three options were presented; Option 1- Maximum Debt Financing will result in approximately one percent rate increase over 30 years at 4.15% interest. Option 2- No Debt Option resulted in a 20% rate increase followed by a 15% rate increase. Option 3-Three Million in Financing resulted in the middle option, providing 5% rate increases each year over five years. There was discussion between Alison Lechowicz from Lechowicz and Tseng Municipal Consultants, Finance Manager Carter, Assistant General Manager Breitstein and Chair Robert Leete regarding the three options presented. There was also discussion about comparison with other local

communities. It was concluded that Alison Lechowicz from Lechowicz and Tseng Municipal Consultants will provide a draft report with details of Option 3 to present at the Special Finance Committee Meeting on Monday, March 9, 2020 at 2:30 p.m.

Public Comment Regarding:

- Community member is not interested in rates of other communities. Community member is more concerned with a reasonable presentation of the rate study.
- 2. Discussion Regarding Emergency Spending Clause in the Purchasing Policy.

At the present moment, Policy 011- Purchasing and Procurement, allows for General Manager to provide financial judgement in the event of a Town emergency up to a maximum of \$10,000.00, request was made to increase this amount for emergency services to \$1,000,000.00. Chair Robert Leete asked for prompt notification to the Board of such an emergency. General Manager Davies indicated notification to Board will be given promptly.

Recommendation from the Finance Committee to the Board is to review this item at the next Board meeting.

3. Discussion Regarding Disposition of Property Surplus Policy. Assistant General Manager Breitstein recommended that any surplus go back to the fund it was originally removed from. In the event of a surplus, sale, auction that will gross any funds, the funds associated with that sale will go to the original department that funded it. Chair Robert Leete concurred. Recommendation from the Finance Committee to the Board is to review this item at the next Board meeting.

F. FUTURE DISCUSSION/AGENDA ITEMS

None

G. ADJOURNMENT

1. The meeting adjourned at 10:49 a.m. to the next Standing Finance Committee meeting at the Community Center located at 1601 Discovery Bay Boulevard.

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MINUTES OF THE SPECIAL MEETING
OF THE STANDING FINANCE COMMITTEE
OF THE TOWN OF DISCOVERY BAY
Monday, March 9, 2020
2:30 p.m..
Community Center
1601 Discovery Bay Boulevard, Discovery Bay, California

Website address: www.todb.ca.gov

Finance Committee Members

Chair Robert Leete Vice-Chair Bill Mayer

A. ROLL CALL

- 1. Call business meeting to order 2:30 p.m.- By Chair Robert Leete
- 2. Roll Call.- All Present

B. PUBLIC COMMENTS (Individual Public Comments will be limited to a 3-minute time limit)

During Public Comments, the public may address the Committee on any issue within the District's jurisdiction which is not on the Agenda. The public may comment on any item on the Agenda at the time the item is before the Committee for consideration by filling out a comment form. The public will be called to comment in the order the comment forms are received. Any person wishing to speak will have 3 minutes to make their comment. There will be no dialog between the Committee and the commenter as the law strictly limits the ability of Committee members to discuss matters not on the agenda. We ask that you refrain from personal attacks during comment, and that you address all comments to the Committee only. Any clarifying questions from the Committee must go through the Chair. Comments from the public do not necessarily reflect the view point of the Committee members.

C. DRAFT MINUTES TO BE APPROVED

None

D. PRESENTATIONS

None

E. DISCUSSION ITEMS

- 1. Presentation by Underwriters Brandis Tallman on Debt Financing. Rick Brandis and Nicki Tallman presented taxable and nontaxable financing options for Bonds. Rates were discussed for refinancing the Town's 2012 Bond with both taxable and non-taxable options. Chair Leete asked about the capacity to extend funds over a three year period. Discussion about increase amounts were discussed among Chairs. General Manager, Mike Davies recommended bring this forward to the rest of the Board members at the March 18, 2020 Board Meeting.
 - **Public Comment Regarding:**
 - Expression of indifference pertaining to rates of rates of surrounding areas. Pipeline project funding was mentioned as a concern. Public requested transparency on the actual cost to borrow.

F. FUTURE DISCUSSION/AGENDA ITEMS

G. ADJOURNMENT

1. Adjourn to the next Standing Finance Committee meeting at the Community Center located at 1601 Discovery Bay Boulevard.

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Town of Discovery Bay Community Services District 2020 Water Rate Study Draft Tables – April 1, 2020



Notes:

Options have been revised since the March 18 Board Meeting:

- Additional projects added (40% water/60% sewer) for the relocation of the District's office building, District security, and vehicle and
 equipment purchases
- New debt assumed for FY2020/21. Debt service costs are estimated by Brandis Tallman at 4.5% over 30 years

12% rate increase approved for FY2020/21 in prior rate study.

Rate design has been adjusted based on the proposed cost allocation methodology and water conservation targets. SB 606 and AB1668 establish a current target of 55 gallons per capita indoor water use by January 1, 2025. On January 1, 2025, it will decrease to the greater of (a) a number selected by DWR or (b) 52.5 gallons per capita daily. On January 1, 2030, the limit will decrease to 50 gallons per capita daily. Enforcement mechanisms are unclear however it is anticipated that fines against water purveyors will begin in 2027. L&T reviewed various sources of water usage data from the Town. It is estimated that current indoor water use is 80 gallons per person per day. This rate study assumes that residential indoor water use will decrease to 70 gallons per person per day by 2025. It is also assumed that the Town will further evaluate its water conservation goals and implement measures to reduce indoor demand from 2025 to 2027.

System Average Annual Rate Revenue Increases

(total increase to rate revenues; the rates of individual customers will vary based on changes to rate design)

Option	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
#1: No debt	+32%	+32%	+1%	+1%	+1%
#2: \$4M debt	+7%	+7%	+7%	+7%	+7%
#3: \$8M debt	+1.75%	+1.75%	+1.75%	+1.75%	+1.75%

Cumulative Rate Revenue Increases

Option	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
#1: No debt	+32%	+74.2%	+76.0%	+77.7%	+79.5%
#2: \$4M debt	+7%	+14.5%	+22.5%	+31.1%	+40.3%
#3: \$8M debt	+1.75%	+3.53%	+5.34%	+7.19%	+9.06%

Debt Service Coverage Ratio (combined ratio for 2012, 2017, and new debt)

Option	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
#1: No debt	10.98	17.32	17.17	17.06	17.20
#2: \$4M debt	6.98	4.02	4.40	4.92	5.52
#3: \$8M debt	6.15	2.10	2.01	1.98	1.97

Table 1: Summary of Capital Funding Sources Town of Discovery Bay Water Rate Study

	OPTION 1	OPTION 2	OPTION 3
	No Debt	\$4M	\$8M
Revenue Sources			
Existing Capital Reserves	164,100	164,100	114,100
Excess Operating Reserves	1,000,000	1,000,000	1,000,000
Capacity Fees	407,400	407,400	407,400
Rate Revenues	12,450,000	8,450,000	4,500,000
New Debt	<u>0</u>	4,000,000	8,000,000
Total Revenues	14,021,500	14,021,500	14,021,500
Total Capital Projects	14,021,500	14,021,500	14,021,500

Table 2: Reserves Town of Discovery Bay Water Rate Study

	FY2018/19		
Reserves	Estimate	Water	Wastewater
Water & Wastewater Operating Reserves	\$5,142,601	\$755,828	\$4,386,773
Emergency Reserves	\$3,001,000	\$1,200,400	\$1,800,600
Sewer Infrastructure Replacement Fund	\$1,550,000	\$0	\$1,550,000
Pumps/Motors Replacement Fund	\$390,000	\$156,000	\$234,000
Water Infrastructure Replacement Fund	\$859,143	\$418,728	\$0
Generators Replacement Fund	\$175,000	\$70,000	\$105,000
Facilities & Vehicles Replacement Fund	\$310,852	\$117,426	\$193,426
Operating Reserves Total	\$5,142,601	\$755,828	\$4,386,773
Emergency Reserves	\$3,001,000	\$1,200,400	\$1,800,600
Infrastructure Replacement Total	\$2,844,580	\$762,154	\$2,082,426
Total Reserves	\$10,988,181	\$2,718,382	\$8,269,799

Table 3: Proposed Water Rates and Changes – OPTION 1: No Debt Town of Discovery Bay Water Rate Study

Monthly Use (cc) Residential Bill (1" meter) % increase	13.0 \$49.40	12.8 \$65.44 32%	12.6 \$86.34 32%	12.4 \$86.90 1%	12.2 \$87.61 1%	11.9 \$88.32 1%
Bill at 13 ccf, 1" meter	13.0 \$49.40	13.0 \$66.02 34%	13.0 \$87.91 33%	13.0 \$89.30 2%	13.0 \$90.89 2 %	13.0 \$92.97 2%

		PROPOSED						
WATER	Current	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25		
	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly		
	(\$/month)	(\$/month)	(\$/month)	(\$/month)	(\$/month)	(\$/month)		
Vacant	\$14.67	\$14.67	\$14.67	\$14.67	\$14.67	\$14.67		
Non-irrigation Account Charge:								
5/8 Inch Meter	\$20.06	\$27.91	\$36.85	\$37.22	\$37.60	\$37.98		
3/4 Inch Meter	\$20.06	\$27.91	\$36.85	\$37.22	\$37.60	\$37.98		
1 Inch Meter	\$20.06	\$27.91	\$36.85	\$37.22	\$37.60	\$37.98		
1 1/2 Inch Meter	\$39.16	\$52.93	\$69.87	\$70.57	\$71.28	\$72.00		
2 Inch Meter	\$62.04	\$82.95	\$109.50	\$110.60	\$111.71	\$112.83		
3 Inch Meter	\$123.06	\$163.02	\$215.19	\$217.35	\$219.53	\$221.73		
4 Inch Meter	\$191.71	\$253.09	\$334.08	\$337.43	\$340.81	\$344.22		
6 Inch Meter	\$382.43	\$503.29	\$664.35	\$671.00	\$677.71	\$684.49		
Irrigation Account Charge:								
5/8 Inch Meter	\$18.92	\$25.00	\$33.00	\$33.33	\$33.67	\$34.01		
3/4 Inch Meter	\$18.92	\$25.00	\$33.00	\$33.33	\$33.67	\$34.01		
1 Inch Meter	\$18.92	\$25.00	\$33.00	\$33.33	\$33.67	\$34.01		
1 1/2 Inch Meter	\$36.87	\$47.11	\$62.19	\$62.82	\$63.45	\$64.09		
2 Inch Meter	\$58.38	\$73.64	\$97.21	\$98.19	\$99.18	\$100.18		
3 Inch Meter	\$115.73	\$144.39	\$190.60	\$192.51	\$194.44	\$196.39		
4 Inch Meter	\$180.27	\$223.99	\$295.67	\$298.63	\$301.62	\$304.64		
6 Inch Meter	\$359.54	\$445.09	\$587.52	\$593.40	\$599.34	\$605.34		
Metered Usage Charge:								
All Usage (\$/ccf)	\$2.257	\$2.932	\$3.928	\$4.006	\$4.099	\$4.230		
Newly Metered Customers								
Meter Install Fee								
(10-year payback)	\$8.01	\$8.01	\$8.01	\$8.01	\$8.01	\$8.01		

ccf = 100 cubic feet = 748 gallons

•			FY2021/22	FY2022/23	FY2023/24	FY2024/25
Emergency Reserves	Y2019/20 1,200,400	FY2020/21 1,200,400	1,200,400	1,200,400	1,200,400	1,200,400
Infrastructure Replacement	762,000	749,900	356,800	2,300	190,400 190,400	<u>588,300</u>
	1,962,400	1,950,300	1,557,200	1,202,700	1,390,800	1,788,700
Revenues						
Capacity Fees (\$4,850/EDU)	164,900	48,500	48,500	48,500	48,500	48,500
Transfer from Operating New Debt Proceeds	1,000,000 <u>0</u>	2,750,000 <u>0</u>	4,300,000 <u>0</u>	2,000,000 <u>0</u>	1,700,000 <u>0</u>	1,700,000 <u>0</u>
	L,164,900	2,798,500	4,348,500	2,048,500	1,748,500	1,748,500
Capital Improvements						
Water Supply Capacity	.=			2-2-2-2	•	
Well 8 Well 5A Decommissioning	150,000	772,500	2,811,400	958,900 <u>82,000</u>	0	0
Total Water Supply Capacity	<u>0</u> 150,000	<u>0</u> 772,500	<u>0</u> 2,811,400	1,040,900	<u>0</u> 0	<u>0</u> 0
Upgrades for Existing Water Supply						
Well 4A Rehab	140,000	0	0	0	0	0
Well Rehab (Wells 1B, 2, 4A, 6)	0	257,500	0	0	225,100	0
Filter Repair (Newport & Willow) Stabilization Soils- Willow Lake WTP	118,000	103,000	231,300 0	0 0	0 0	0 0
Upgrade Well 4A Piping	150,000 <u>75,000</u>	0 <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Existing Water Supply	483,000	360,500	231,300	0	225,100	0
Distribution/Pipeline Replacements						
Mainline CIP Program Long-Term	0	0	530,500	819,500	1,125,500	1,738,900
Cathodic Protection	0	257,500	0	0	0	0
6 inch pipeline Lakeview Biz Park Replace Underwater Crossing Laguna Ct	0 400,000	298,700 0	0	0 0	0 0	0
Edgeview St. Andrews /Clubhouse	400,000	309,000	0	0	0	0
Marina Underwater Crossing	<u>0</u>	600,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Distribution/Pipeline Replacements	400,000	1,465,200	530,500	819,500	1,125,500	1,738,900
Additional Distribution Improvements						
WTP spill containment curbing/diversion	0	25,800	0	0	0	0
Upgrade Hypo Tanks at WTP Total Distribution/Pipeline Replacements	<u>0</u> 0	<u>0</u> 25,800	<u>26,500</u> 26,500	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0
	U	23,600	20,500	U	U	U
Master Plans Water Master & Asset Management Plans	0	257,500	0	0	0	0
2020 Urban Water Management Plan	0	41,200	0	0	0	0
AWIA Emergency Plans	<u>0</u>	<u>25,800</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Master Plans	0	324,500	0	0	0	0
Building Rehab or Relocation						
Island Building by Well 1B	60,000	0	0	0	0	0
Move District Main Office Building Total Building Rehab/Relocation	<u>0</u> 60,000	<u>164,800</u> 164,800	<u>1,103,300</u> 1,103,300	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0
	00,000	104,800	1,103,300	U	U	U
Vehicle & Equipment Purchases New Truck	16,000	16,500	0	0	0	0
Woodchipper or Firebox	20,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Vehicle & Equipment	36,000	16,500	0	0	0	0
District Security						
Cyber Security	0	61,800	0	0	45,000	0
Phase 1 - complete Phase 2	0 48,000	0	0	0 0	0 0	0
Phase 3	<u>0</u>	<u>61,800</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total District Security	48,000	61,800	0	0	0	0
Total Capital Improvements	1,177,000	3,191,600	4,703,000	1,860,400	1,350,600	1,738,900
Total Net Revenues	(12,100)	(393,100)	(354,500)	188,100	397,900	9,600
Ending Balance	1,950,300	1,557,200	1,202,700	1,390,800	1,788,700	1,798,300

Table 5: Water Operating Cash Flows – OPTION 1: No Debt Town of Discovery Bay Water Rate Study

Line		Current FY2019/20	Projected FY2020/21	Projected FY2021/22	Projected FY2022/23	Projected FY2023/24	Projected FY2024/25
1 2	Beginning Operating Balance	\$756,000	\$1,533,000	\$1,366,600	\$1,310,500	\$3,482,200	\$5,941,000
3	Proposed Increase		32.0%	32.0%	1.0%	1.0%	1.0%
5	Revenues						
6	Rate Revenue	4,191,000	5,532,000	7,302,000	7,375,000	7,449,000	7,523,000
7	New Customers	20,000	34,600	55,900	66,700	77,800	89,000
8	Rate Rev Subtotal	4,211,000	5,566,600	7,357,900	7,441,700	7,526,800	7,612,000
9	Less Delinquency (2%)	(91,000)	(111,000)	(146,000)	(148,000)	(149,000)	(150,000)
10	Vacant Parcel	12,000	12,000	12,000	12,000	12,000	12,000
11	Meter Reimbursements	336,000	336,000	336,000	336,000	336,000	336,000
12	Other & Misc	22,000	<u>27,000</u>	<u>27,000</u>	27,000	<u>27,000</u>	<u>27,000</u>
13	Total Revenues	4,490,000	5,830,600	7,586,900	7,668,700	7,752,800	7,837,000
14							
15	% increase in operating expenses		budget	3.0%	3.0%	3.0%	3.0%
16	Expenses						
17	Operating Expenses						
18	Admin & Inter Govt. & Board	334,000	451,000	465,000	479,000	493,000	508,000
19	Staffing & Consulting Serv	572,000	862,000	888,000	915,000	942,000	970,000
20	Meters Reading	88,000	93,000	96,000	99,000	102,000	105,000
21	Operations & Maint	331,000	424,000	437,000	450,000	464,000	478,000
22	SGMA Compliance	0	15,000	20,000	21,000	21,000	22,000
23	Utilities [1]	479,000	467,000	481,000	495,000	510,000	525,000
24	Service Contract [2]	<u>651,000</u>	<u>676,000</u>	<u>696,000</u>	<u>780,000</u>	803,000	<u>827,000</u>
25	Total Operating Expenses	2,455,000	2,988,000	3,083,000	3,239,000	3,335,000	3,435,000
26							
27	Net Operating Revenues	2,035,000	2,842,600	4,503,900	4,429,700	4,417,800	4,402,000
28							
29	Debt Service						
30	2012 Bonds Debt Service [3]	88,000	88,000	89,000	88,000	89,000	88,000
31	2017 Bonds Debt Service [3]	170,000	171,000	171,000	170,000	170,000	168,000
32	New Debt Service [4]	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
33	Total Debt Service	258,000	259,000	260,000	258,000	259,000	256,000
34	5.1.6	7.00	40.00	47.00	47.47	47.00	47.00
35	Debt Service Coverage	7.89	10.98	17.32	17.17	17.06	17.20
36	Tatal COM . Dale	2 742 000	2 247 000	2 242 000	2 407 000	2 504 000	2 604 000
37	Total O&M + Debt	2,713,000	3,247,000	3,343,000	3,497,000	3,594,000	3,691,000
38	Total Not Dovernos	1 777 000	2 502 600	4 2 4 2 0 0 0	4 171 700	4 4 5 0 0 0 0	4.146.000
39 40	Total Net Revenues	1,777,000	2,583,600	4,243,900	4,171,700	4,158,800	4,146,000
40 41	Transfer to Capital	1,000,000	2,750,000	4,300,000	2,000,000	1,700,000	1,700,000
41	Transier to Capital	1,000,000	2,730,000	4,300,000	2,000,000	1,700,000	1,700,000
42	O&M Ending balance	1,533,000	1,366,600	1,310,500	3,482,200	5,941,000	8,387,000
43 44	Carr Lituing Dalance	1,333,000	1,300,000	1,310,300	3,402,200	3,341,000	0,307,000
45	Minimum balance target [5]	818,000	996,000	1,028,000	1,080,000	1,112,000	1,145,000
73		010,000	330,000	1,020,000	1,000,000	1,112,000	1,1-3,000

^{1 -} Chemicals and electric

² - Assumed increase in FY2023 due to Well #8 coming online

^{3 -} Based on year ended December 1

^{4 -} Estimated by Brandis Tallman

^{5 - 4} months O&M expenses

Table 6: Proposed Water Rates and Changes – OPTION 2: \$4M Town of Discovery Bay Water Rate Study

Monthly Use (cc) Residential Bill (1" meter) % increase	13.0 \$49.40	12.8 \$53.06 7%	12.6 \$56.75 7%	12.4 \$60.52 7%	12.2 \$64.64 7%	11.9 \$69.04 7%
Bill at 13 ccf, 1" meter	13.0 \$49.40	13.0 \$53.54 8%	13.0 \$57.79 8%	13.0 \$62.20 8%	13.0 \$67.06 8%	13.0 \$72.68 8%

				PROPOSED		
WATER	Current	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
	(\$/month)	(\$/month)	(\$/month)	(\$/month)	(\$/month)	(\$/month)
Vacant	\$14.67	\$14.67	\$14.67	\$14.67	\$14.67	\$14.67
Non-irrigation Account Charge:						
5/8 Inch Meter	\$20.06	\$22.61	\$24.20	\$25.90	\$27.72	\$29.67
3/4 Inch Meter	\$20.06	\$22.61	\$24.20	\$25.90	\$27.72	\$29.67
1 Inch Meter	\$20.06	\$22.61	\$24.20	\$25.90	\$27.72	\$29.67
1 1/2 Inch Meter	\$39.16	\$42.59	\$45.58	\$48.78	\$52.20	\$55.86
2 Inch Meter	\$62.04	\$66.57	\$71.23	\$76.22	\$81.56	\$87.27
3 Inch Meter	\$123.06	\$130.50	\$139.64	\$149.42	\$159.88	\$171.08
4 Inch Meter	\$191.71	\$202.43	\$216.61	\$231.78	\$248.01	\$265.38
6 Inch Meter	\$382.43	\$402.23	\$430.39	\$460.52	\$492.76	\$527.26
Irrigation Account Charge:						
5/8 Inch Meter	\$18.92	\$20.25	\$21.67	\$23.19	\$24.82	\$26.56
3/4 Inch Meter	\$18.92	\$20.25	\$21.67	\$23.19	\$24.82	\$26.56
1 Inch Meter	\$18.92	\$20.25	\$21.67	\$23.19	\$24.82	\$26.56
1 1/2 Inch Meter	\$36.87	\$39.13	\$41.53	\$44.08	\$46.79	\$49.66
2 Inch Meter	\$58.38	\$61.77	\$65.35	\$69.14	\$73.15	\$77.39
3 Inch Meter	\$115.73	\$122.10	\$128.82	\$135.91	\$143.39	\$151.28
4 Inch Meter	\$180.27	\$189.99	\$200.24	\$211.05	\$222.43	\$234.43
6 Inch Meter	\$359.54	\$378.58	\$398.64	\$419.75	\$441.99	\$465.40
Metered Usage Charge:						
All Usage (\$/ccf)	\$2.257	\$2.379	\$2.584	\$2.792	\$3.026	\$3.308
Newly Metered Customers						
Meter Install Fee						
(10-year payback)	\$8.01	\$8.01	\$8.01	\$8.01	\$8.01	\$8.01

ccf = 100 cubic feet = 748 gallons

Table 7: Water Capital Cash Flows - OPTION 2	: \$4M FY2019/20	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
Emergency Reserves	1,200,400	1,200,400	1,200,400	1,200,400	1,200,400	1,200,400
Infrastructure Replacement	762,000	749,900	3,106,800	2,300	1,200,400 190,400	588,300
Beginning Balance	1,962,400	1,950,300	4,307,200	1,202,700	1,390,800	1,788,700
Revenues	, ,	, ,	, ,	, ,	, ,	
Capacity Fees (\$4,850/EDU)	164,900	48,500	48,500	48,500	48,500	48,500
Transfer from Operating	1,000,000	1,500,000	1,550,000	2,000,000	1,700,000	1,700,000
New Debt Proceeds	<u>0</u>	4,000,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Revenues	1,164,900	5,548,500	1,598,500	2,048,500	1,748,500	1,748,500
Capital Improvements						
Water Supply Capacity						
Well 8	150,000	772,500	2,811,400	958,900	0	0
Well 5A Decommissioning	<u>0</u>	<u>0</u>	<u>0</u>	<u>82,000</u>	<u>0</u>	<u>0</u>
Total Water Supply Capacity	150,000	772,500	2,811,400	1,040,900	0	0
Upgrades for Existing Water Supply						
Well 4A Rehab	140,000	0	0	0	0	0
Well Rehab (Wells 1B, 2, 4A, 6)	0 118,000	257,500	0	0	225,100	0
Filter Repair (Newport & Willow) Stabilization Soils- Willow Lake WTP	150,000	103,000 0	231,300 0	0 0	0 0	0 0
Upgrade Well 4A Piping	75,000	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Existing Water Supply	483,000	360,500	231,300	0	225,100	0
Distribution/Pipeline Replacements						
Mainline CIP Program Long-Term	0	0	530,500	819,500	1,125,500	1,738,900
Cathodic Protection	0	257,500	0	0	0	0
6 inch pipeline Lakeview Biz Park	0	298,700	0	0	0	0
Replace Underwater Crossing Laguna Ct	400,000	0	0	0	0	0
Edgeview St. Andrews /Clubhouse	0	309,000	0	0	0	0
Marina Underwater Crossing	<u>0</u>	600,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Distribution/Pipeline Replacements	400,000	1,465,200	530,500	819,500	1,125,500	1,738,900
Additional Distribution Improvements						
WTP spill containment curbing/diversion	0	25,800	0	0	0	0
Upgrade Hypo Tanks at WTP Total Distribution/Pipeline Replacements	<u>0</u> 0	<u>0</u> 25,800	<u>26,500</u> 26,500	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0
	U	23,800	20,300	U	U	U
Master Plans	•		•	•	•	•
Water Master & Asset Management Plans	0 0	257,500	0 0	0 0	0 0	0
2020 Urban Water Management Plan AWIA Emergency Plans	<u>0</u>	41,200 <u>25,800</u>	<u>0</u>	<u>0</u>		<u>0</u>
Total Master Plans	<u>0</u> 0	324,500	0	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0
Pullifor Pales on Pales atten		,				
Building Rehab or Relocation Island Building by Well 1B	60,000	0	0	0	0	0
Move District Main Office Building	00,000	164,800	<u>1,103,300</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Building Rehab/Relocation	60,000	164,800	1,103,300	0	0	0
Vehicle & Equipment Purchases						
New Truck	16,000	16,500	0	0	0	0
Woodchipper or Firebox	20,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Vehicle & Equipment	36,000	16,500	0	0	0	0
District Security						
Cyber Security	0	61,800	0	0	45,000	0
Phase 1 - complete	0	0	0	0	0	0
Phase 2	48,000	0	0	0	0	0
Phase 3	<u>0</u>	61,800	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total District Security	48,000	61,800	0	0	0	0
Total Capital Improvements	1,177,000	3,191,600	4,703,000	1,860,400	1,350,600	1,738,900
Total Net Revenues	(12,100)	2,356,900	(3,104,500)	188,100	397,900	9,600
Ending Balance	1,950,300	4,307,200	1,202,700	1,390,800	1,788,700	1,798,300

Table 8: Water Operating Cash Flows – OPTION 2: \$4M Town of Discovery Bay Water Rate Study

Line		Current FY2019/20	Projected FY2020/21	Projected FY2021/22	Projected FY2022/23	Projected FY2023/24	Projected FY2024/25
1 2	Beginning Operating Balance	\$756,000	\$1,533,000	\$1,583,000	\$1,558,200	\$1,268,100	\$1,543,900
3	Proposed Increase		7.00%	7.00%	7.00%	7.00%	7.00%
5	Revenues						
6	Rate Revenue	4,191,000	4,484,000	4,798,000	5,134,000	5,493,000	5,878,000
7	New Customers	20,000	28,000	<u>36,800</u>	46,500	57,400	<u>69,600</u>
8	Rate Rev Subtotal	4,211,000	4,512,000	4,834,800	5,180,500	5,550,400	5,947,600
9	Less Delinquency (2%)	(91,000)	(90,000)	(96,000)	(103,000)	(110,000)	(118,000)
10	Vacant Parcel	12,000	12,000	12,000	12,000	12,000	12,000
11	Meter Reimbursements	336,000	336,000	336,000	336,000	336,000	336,000
12	Other & Misc	<u>22,000</u>	<u>27,000</u>	<u>27,000</u>	<u>27,000</u>	<u>27,000</u>	<u>27,000</u>
13 14	Total Revenues	4,490,000	4,797,000	5,113,800	5,452,500	5,815,400	6,204,600
15	% increase in operating expenses		budget	3.0%	3.0%	3.0%	3.0%
16	Expenses						
17	Operating Expenses						
18	Admin & Inter Govt. & Board	334,000	451,000	465,000	479,000	493,000	508,000
19	Staffing & Consulting Serv	572,000	862,000	888,000	915,000	942,000	970,000
20	Meters Reading	88,000	93,000	96,000	99,000	102,000 464,000	105,000
21 22	Operations & Maint SGMA Compliance	331,000 0	424,000 15,000	437,000 20,000	450,000 21,000	21,000	478,000 22,000
23	Utilities [1]	479,000	467,000	481,000	495,000	510,000	525,000
24	Service Contract [2]	651,000	676,000	696,000	780,000	803,000	827,000 827,000
25	Total Operating Expenses	2,455,000	2,988,000	3,083,000	3,239,000	3,335,000	3,435,000
26	rotal Operating Expenses	2,433,000	2,300,000	3,003,000	3,233,000	3,333,000	3,433,000
27	Net Operating Revenues	2,035,000	1,809,000	2,030,800	2,213,500	2,480,400	2,769,600
28	,						
29	Debt Service						
30	2012 Bonds Debt Service [3]	88,000	88,000	89,000	88,000	89,000	88,000
31	2017 Bonds Debt Service [3]	170,000	171,000	171,000	170,000	170,000	168,000
32	New Debt Service [4]	<u>0</u>	<u>0</u>	<u>245,600</u>	<u>245,600</u>	<u>245,600</u>	<u>245,600</u>
33	Total Debt Service	258,000	259,000	505,600	503,600	504,600	501,600
34							
35	Debt Service Coverage	7.89	6.98	4.02	4.40	4.92	5.52
36	Total O&M + Debt	2 712 000	2 247 000	2 500 600	2 742 600	2 920 600	2.026.600
37 38	Total Oxivi + Debt	2,713,000	3,247,000	3,588,600	3,742,600	3,839,600	3,936,600
39	Total Net Revenues	1,777,000	1,550,000	1,525,200	1,709,900	1,975,800	2,268,000
40	iotal Net Nevellues	1,777,000	1,330,000	1,323,200	1,709,900	1,973,800	2,208,000
41	Transfer to Capital	1,000,000	1,500,000	1,550,000	2,000,000	1,700,000	1,700,000
42		1,000,000	1,550,000	1,550,000	2,000,000	1,, 00,000	1,, 30,000
43	O&M Ending balance	1,533,000	1,583,000	1,558,200	1,268,100	1,543,900	2,111,900
44		_,0,000	_,5,555	_,,	_,0,_00	_,,	_,,
45	Minimum balance target [5]	818,000	996,000	1,028,000	1,080,000	1,112,000	1,145,000

^{1 -} Chemicals and electric

^{2 -} Assumed increase in FY2023 due to Well #8 coming online

^{3 -} Based on year ended December 1

⁴ - Estimated by Brandis Tallman based on 30 years at 4.5%

^{5 - 4} months O&M expenses

Table 9: Proposed Water Rates and Changes – OPTION 3: \$8M Town of Discovery Bay Water Rate Study

Monthly Use (cc) Residential Bill (1" meter) % increase	13.0 \$49.40	12.8 \$50.47 2%	12.6 \$51.32 2%	12.4 \$52.05 1%	12.2 \$52.86 2%	11.9 \$53.68 2%
Bill at 13 ccf, 1" meter	13.0 \$49.40	13.0 \$50.92 3%	13.0 \$52.26 3%	13.0 \$53.49 2%	13.0 \$54.84 3%	13.0 \$56.52 3%

				PROPOSED		
WATER	Current	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
	(\$/month)	(\$/month)	(\$/month)	(\$/month)	(\$/month)	(\$/month)
Vacant	\$14.67	\$14.67	\$14.67	\$14.67	\$14.67	\$14.67
Non-irrigation Account Charge:						
5/8 Inch Meter	\$20.06	\$21.46	\$21.84	\$22.23	\$22.62	\$23.02
3/4 Inch Meter	\$20.06	\$21.46	\$21.84	\$22.23	\$22.62	\$23.02
1 Inch Meter	\$20.06	\$21.46	\$21.84	\$22.23	\$22.62	\$23.02
1 1/2 Inch Meter	\$39.16	\$40.08	\$40.79	\$41.51	\$42.24	\$42.98
2 Inch Meter	\$62.04	\$62.42	\$63.52	\$64.64	\$65.78	\$66.94
3 Inch Meter	\$123.06	\$122.01	\$124.15	\$126.33	\$128.54	\$130.80
4 Inch Meter	\$191.71	\$189.04	\$192.35	\$195.72	\$199.15	\$202.64
6 Inch Meter	\$382.43	\$375.24	\$381.81	\$388.50	\$395.30	\$402.22
Irrigation Account Charge:						
5/8 Inch Meter	\$18.92	\$19.25	\$19.58	\$19.92	\$20.27	\$20.62
3/4 Inch Meter	\$18.92	\$19.25	\$19.58	\$19.92	\$20.27	\$20.62
1 Inch Meter	\$18.92	\$19.25	\$19.58	\$19.92	\$20.27	\$20.62
1 1/2 Inch Meter	\$36.87	\$37.13	\$37.39	\$37.65	\$37.91	\$38.18
2 Inch Meter	\$58.38	\$58.55	\$58.73	\$58.90	\$59.07	\$59.25
3 Inch Meter	\$115.73	\$115.73	\$115.73	\$115.73	\$115.73	\$115.73
4 Inch Meter	\$180.27	\$180.27	\$180.27	\$180.27	\$180.27	\$180.27
6 Inch Meter	\$359.54	\$359.54	\$359.54	\$359.54	\$359.54	\$359.54
Metered Usage Charge:						
All Usage (\$/ccf)	\$2.257	\$2.266	\$2.340	\$2.405	\$2.479	\$2.577
Newly Metered Customers						
Meter Install Fee						
(10-year payback)	\$8.01	\$8.01	\$8.01	\$8.01	\$8.01	\$8.01

ccf = 100 cubic feet = 748 gallons

Emergency Reserves 1,200,400 1,200,400 1,200,400 1,200,400 1,200,400 1,200,400 1,200,400 1,200,400 1,200,400 1,200,400 1,200,400 1,200,400 1,200,400 2,840,800 2,843,800 2,843,800 2,840,800 2,843,800 2,840,800 2,843,800 2,840,8	Table 10: Water Capital Cash Flows - OPTION	3: 8M FY2019/20	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
Infrastructure Replacement	Emergency Reserves	1,200,400	1,200,400	1,200,400	1,200,400	1,200,400	1,200,400
Personal Process Personal Pr	· ·	, ,					
Capacity Fees (S4,850/PCDU)							
Transfer from Operating							
New Debt Proceeds							
Total New							_
Water Supply Capacity Water Supply Capacity Supply Capacity		_		_			_
Water Supply Capacity 150,000 772,500 2,811,400 958,900 0 0 Well IS A Decommissioning 0 0 0 20 2,200 0 0 Otal Water Supply Capacity 150,000 772,500 2,811,400 10,400,000 0 0 0 Well Rehab (Wells 18, 2, 4A, 6) 0 257,500 0 0 225,100 0 Filter Repair (Newport & Willow) 118,000 103,000 231,300 0 0 225,100 0 Stabilization Sols- Willow Lake WTP 150,000 0 0 225,100 0 </td <td>lotal Revenues</td> <td>1,164,900</td> <td>8,548,500</td> <td>1,048,500</td> <td>1,048,500</td> <td>1,048,500</td> <td>1,048,500</td>	lotal Revenues	1,164,900	8,548,500	1,048,500	1,048,500	1,048,500	1,048,500
Well IA Decommissioning 0 0 2,811,400 1,20,000 0 0 Obgrades for Existing Water Supply Well AR Rehab 140,000 <							
Total Water Supply Capacity 150,000 772,500 2,811,400 1,040,900 0 0 0 0 0 0 0 0 0	Well 8	150,000	772,500	2,811,400	958,900	0	0
Well AR Rehab	Well 5A Decommissioning	<u>0</u>		<u>0</u>	<u>82,000</u>	<u>0</u>	
Well AR ARhab 140,000 0	Total Water Supply Capacity	150,000	772,500	2,811,400	1,040,900	0	0
Mell Rehab (Wells 18, 2, 4A, 6)							
Filter Repair (Newport & Willow)		140,000					0
Stabilization Soils-Willow Lake WTP 150,000 0 0 0 0 0 0 0 0			,	_		,	
Total Existing Water Supply							
Total Existing Water Supply							
Mainline CIP Program Long-Term			_	_			
Mainline CIP Program Long-Term 0 530,500 819,500 1,125,500 1,738,900 Cathodic Protection 0 257,500 0 0 0 0 6 inch pipeline Lakeview Biz Park 0 298,700 0 0 0 0 Replace Underwater Crossing Laguna Ct 400,000 0 0 0 0 0 0 0 Marina Underwater Crossing Laguna Ct 400,000 1,465,200 30,000 0 </td <td>Total Existing Water Supply</td> <td>483,000</td> <td>360,500</td> <td>231,300</td> <td>0</td> <td>225,100</td> <td>Ü</td>	Total Existing Water Supply	483,000	360,500	231,300	0	225,100	Ü
Cathodic Protection 0 257,500 0 0 0 0 6 inch pipeline Lakeview Biz Park 0 298,700 0 0 0 0 Replace Underwater Crossing Laguna Ct 400,000 0 0 0 0 0 Edgeview St. Andrews /Clubhouse 0 309,000 0 0 0 0 Marina Underwater Crossing 0 600,000 0 0 0 0 Additional Distribution Improvements WTP spill containment curbing/diversion 0 25,800 0 0 0 0 WP7 spill containment curbing/diversion 0 25,800 0 0 0 0 0 Upgrade Hypo Tanks at WTP 0 0 26,500 0 0 0 0 Water Plans 0 25,800 0 0 0 0 0 Water Plans 0 255,800 0 0 0 0 0 202 Urban Water Management Plan 0					242 - 22		. ====
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Total Distribution/Pipeline Replacements 400,000 1,465,200 530,500 819,500 1,125,500 1,738,900 Additional Distribution Improvements WTP spill containment curbing/diversion 0 25,800 0 0 0 0 0 0 0 0 0	_			_			_
Additional Distribution Improvements WTP spill containment curbing/diversion 0 25,800 0 0 0 Upgrade Hypo Tanks at WTP 0 0 26,500 0 0 0 Total Distribution/Pipeline Replacements 0 25,800 26,500 0 0 0 Master Plans 0 257,500 0 0 0 0 Water Master & Asset Management Plans 0 257,500 0 0 0 0 2020 Urban Water Management Plans 0 25,800 0 0 0 0 AWIA Emergency Plans 0 25,800 0 0 0 0 Total Master Plans 0 324,500 0 0 0 0 Building Rehab or Relocation 8 60,000 0 0 0 0 0 Building Rehab or Relocation 60,000 164,800 1,103,300 0 0 0 0 Vehicle & Equipment Purchases 1,600 16,500	•	_				_	_
WTP spill containment curbing/diversion Upgrade Hypo Tanks at WTP 0 25,800 0 0 0 Total Distribution/Pipeline Replacements 0 25,800 26,500 0 0 0 Master Plans Value Master Wasset Management Plans 0 257,500 0 0 0 0 Water Master & Asset Management Plan 0 41,200 0 0 0 0 2020 Urban Water Management Plan 0 41,200 0 0 0 0 AWIA Emergency Plans 0 25,800 0 0 0 0 Total Master Plans 0 324,500 0 0 0 0 Building Rehab or Relocation 0 0 0 0 0 0 0 Building Rehab or Relocation 60,000 0 <td< td=""><td></td><td>,</td><td>, ,</td><td>,</td><td>,</td><td>, ,</td><td></td></td<>		,	, ,	,	,	, ,	
Digrade Hypo Tanks at WTP		0	25 800	0	0	0	0
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Island Building by Well 1B 60,000 0 0 0 0 0 Move District Main Office Building Notal Building Rehab/Relocation 60,000 164,800 1,103,300 0 0 0 Vehicle & Equipment Purchases 0 16,500 0 0 0 0 0 New Truck 16,000 16,500 0	Total Master Plans		324,500				0
Island Building by Well 1B 60,000 0 0 0 0 0 Move District Main Office Building Notal Building Rehab/Relocation 60,000 164,800 1,103,300 0 0 0 Vehicle & Equipment Purchases 0 16,500 0 0 0 0 0 New Truck 16,000 16,500 0	Building Rehab or Relocation						
Total Building Rehab/Relocation 60,000 164,800 1,103,300 0 0 0 Vehicle & Equipment Purchases 16,000 16,500 0 <t< td=""><td></td><td>60,000</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></t<>		60,000	0	0	0	0	0
Vehicle & Equipment Purchases New Truck 16,000 16,500 0 0 0 0 Woodchipper or Firebox 20,000 0 0 0 0 0 0 Total Vehicle & Equipment 36,000 16,500 0 <td>Move District Main Office Building</td> <td><u>0</u></td> <td><u>164,800</u></td> <td>1,103,300</td> <td><u>0</u></td> <td><u>0</u></td> <td><u>0</u></td>	Move District Main Office Building	<u>0</u>	<u>164,800</u>	1,103,300	<u>0</u>	<u>0</u>	<u>0</u>
New Truck 16,000 16,500 0 0 0 0 Woodchipper or Firebox 20,000 0 </td <td>Total Building Rehab/Relocation</td> <td>60,000</td> <td>164,800</td> <td>1,103,300</td> <td>0</td> <td>0</td> <td>0</td>	Total Building Rehab/Relocation	60,000	164,800	1,103,300	0	0	0
Woodchipper or Firebox 20,000 0 0 0 0 0 Total Vehicle & Equipment 36,000 16,500 0 0 0 0 District Security 0 61,800 0 0 45,000 0 Phase 1- complete 0 0 0 0 0 0 Phase 2 48,000 0 0 0 0 0 Phase 3 0 61,800 0 0 0 0 Total District Security 48,000 61,800 0 0 0 0 0 Total Capital Improvements 1,177,000 3,191,600 4,703,000 1,860,400 1,350,600 1,738,900 Total Net Revenues (12,100) 5,356,900 (3,654,500) (811,900) (302,100) (690,400)	Vehicle & Equipment Purchases						
Total Vehicle & Equipment 36,000 16,500 0 0 0 0 District Security 0 61,800 0 0 45,000 0 Phase 1- complete 0 0 0 0 0 0 Phase 2 48,000 0 0 0 0 0 Phase 3 0 61,800 0 0 0 0 0 Total District Security 48,000 61,800 0 0 0 0 0 0 Total Capital Improvements 1,177,000 3,191,600 4,703,000 1,860,400 1,350,600 1,738,900 Total Net Revenues (12,100) 5,356,900 (3,654,500) (811,900) (302,100) (690,400)	New Truck	16,000	16,500	0	0	0	0
District Security Cyber Security 0 61,800 0 0 45,000 0 Phase 1- complete 0 <td< td=""><td>Woodchipper or Firebox</td><td></td><td><u>0</u></td><td><u>0</u></td><td><u>0</u></td><td><u>0</u></td><td><u>0</u></td></td<>	Woodchipper or Firebox		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Cyber Security 0 61,800 0 45,000 0 Phase 1- complete 0 0 0 0 0 0 0 Phase 2 48,000 0 0 0 0 0 0 0 Phase 3 0 61,800 0 <td>Total Vehicle & Equipment</td> <td>36,000</td> <td>16,500</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Total Vehicle & Equipment	36,000	16,500	0	0	0	0
Phase 1- complete 0 0 0 0 0 0 Phase 2 48,000 0 0 0 0 0 0 Phase 3 0 61,800 0 0 0 0 0 Total District Security 48,000 61,800 0 0 0 0 0 0 Total Capital Improvements 1,177,000 3,191,600 4,703,000 1,860,400 1,350,600 1,738,900 Total Net Revenues (12,100) 5,356,900 (3,654,500) (811,900) (302,100) (690,400)	District Security						
Phase 2 48,000 0 0 0 0 0 0 Phase 3 0 61,800 0	Cyber Security	0	61,800	0	0	45,000	0
Phase 3 Total District Security 0 48,000 61,800 61,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		_					0
Total District Security 48,000 61,800 0 0 0 0 0 Total Capital Improvements 1,177,000 3,191,600 4,703,000 1,860,400 1,350,600 1,738,900 Total Net Revenues (12,100) 5,356,900 (3,654,500) (811,900) (302,100) (690,400)			_				
Total Capital Improvements 1,177,000 3,191,600 4,703,000 1,860,400 1,350,600 1,738,900 Total Net Revenues (12,100) 5,356,900 (3,654,500) (811,900) (302,100) (690,400)							
Total Net Revenues (12,100) 5,356,900 (3,654,500) (811,900) (302,100) (690,400)				_	-	_	_
	Total Capital Improvements	1,177,000	3,191,600	4,703,000	1,860,400	1,350,600	1,738,900
Ending Balance 1,950,300 7,307,200 3,652,700 2,840,800 2,538,700 1,848,300	Total Net Revenues	(12,100)	5,356,900	(3,654,500)	(811,900)	(302,100)	(690,400)
	Ending Balance	1,950,300	7,307,200	3,652,700	2,840,800	2,538,700	1,848,300

Table 11: Water Operating Cash Flows – OPTION 3: \$8M Town of Discovery Bay Water Rate Study

Line	1	Current FY2019/20	Projected FY2020/21	Projected FY2021/22	Projected FY2022/23	Projected FY2023/24	Projected FY2024/25
1 2	Beginning Operating Balance	\$756,000	\$1,533,000	\$2,366,600	\$2,192,800	\$1,946,700	\$1,685,500
3	Proposed Increase		1.75%	1.75%	1.75%	1.75%	1.75%
5	Revenues						
6	Rate Revenue	4,191,000	4,264,000	4,339,000	4,415,000	4,492,000	4,571,000
7	New Customers	20,000	<u>26,600</u>	33,300	40,000	46,900	54,100
8	Rate Rev Subtotal	4,211,000	4,290,600	4,372,300	4,455,000	4,538,900	4,625,100
9	Less Delinquency (2%)	(91,000)	(85,000)	(87,000)	(88,000)	(90,000)	(91,000)
10	Vacant Parcel	12,000	12,000	12,000	12,000	12,000	12,000
11	Meter Reimbursements	336,000	336,000	336,000	336,000	336,000	336,000
12	Other & Misc	<u>22,000</u>	<u>27,000</u>	<u>27,000</u>	<u>27,000</u>	<u>27,000</u>	<u>27,000</u>
13 14	Total Revenues	4,490,000	4,580,600	4,660,300	4,742,000	4,823,900	4,909,100
15	% increase in operating expenses		budget	3.0%	3.0%	3.0%	3.0%
16	Expenses						
17	Operating Expenses						
18	Admin & Inter Govt. & Board	334,000	451,000	465,000	479,000	493,000	508,000
19	Staffing & Consulting Serv	572,000	862,000	888,000	915,000	942,000	970,000
20	Meters Reading	88,000	93,000	96,000	99,000	102,000	105,000
21	Operations & Maint	331,000	424,000	437,000	450,000	464,000	478,000
22	SGMA Compliance	0	15,000	20,000	21,000	21,000	22,000
23	Utilities [1]	479,000	467,000	481,000	495,000	510,000	525,000
24	Service Contract [2]	<u>651,000</u>	<u>676,000</u>	<u>696,000</u>	<u>780,000</u>	803,000	<u>827,000</u>
25 26	Total Operating Expenses	2,455,000	2,988,000	3,083,000	3,239,000	3,335,000	3,435,000
27	Net Operating Revenues	2,035,000	1,592,600	1,577,300	1,503,000	1,488,900	1,474,100
28	Debt Service						
29 30	2012 Bonds Debt Service [3]	88,000	88,000	89,000	88,000	89,000	88,000
31	2017 Bonds Debt Service [3]	170,000	171,000	171,000	170,000	170,000	168,000
32	New Debt Service [4]	<u>0</u>	0 <u>0</u>	491,100	491,100	491,100	491,100
33	Total Debt Service	258,000	259,000	751,100	749,100	750,100	747,100
34	Total Best Sci Vice	230,000	233,000	731,100	7 13,100	750,100	717,100
35	Debt Service Coverage	7.89	6.15	2.10	2.01	1.98	1.97
36	J						
37	Total O&M + Debt	2,713,000	3,247,000	3,834,100	3,988,100	4,085,100	4,182,100
38							
39	Total Net Revenues	1,777,000	1,333,600	826,200	753,900	738,800	727,000
40							
41	Transfer to Capital	1,000,000	500,000	1,000,000	1,000,000	1,000,000	1,000,000
42							
43	O&M Ending balance	1,533,000	2,366,600	2,192,800	1,946,700	1,685,500	1,412,500
44 45	Minimum balance target [5]	818,000	996,000	1,028,000	1,080,000	1,112,000	1,145,000
+5		310,000	330,000	1,020,000	1,000,000	1,112,000	1,1 13,000

^{1 -} Chemicals and electric

^{2 -} Assumed increase in FY2023 due to Well #8 coming online

^{3 -} Based on year ended December 1

⁴ - Estimated by Brandis Tallman based on 30 years at 4.5%

^{5 - 4} months O&M expenses



Town of Discovery Bay Community Services District 2020 Sewer Rate Study Draft Tables – April 1, 2020



Notes:

Options have been revised since the March 18 Board Meeting:

- Additional projects added (40% water/60% sewer) for the relocation of the District's office building, District security, and vehicle and
 equipment purchases
- New debt assumed for FY2020/21. Debt service costs are estimated by Brandis Tallman at 4.5% over 30 years
- Changes to debt and capital projects slightly updated/changed the cost allocation results

4% rate increase approved for FY2020/21 in prior rate study.

Rate design for residential and commercial customers has been adjusted. The prior studies assumed each single family home was discharging 14.4 ccf/month and each multifamily dwelling was discharging 11 ccf/month. Recent flow data at the wastewater treatment plant indicates that the average single family home (2.74 people) discharges 9 ccf/month. The average multifamily home is assumed to have 2 people and is assumed to discharge 6.5 ccf/month. The impact of this change is that single family customers have lower cost responsibility than previously assumed. All customers are proposed to receive rate increases under the options shown here but non-single family residential customers are proposed to receive larger % increases.

System Average Annual Rate Revenue Increases

(total increase to rate revenues; the rates of individual customers will vary based on changes to rate design)

Option	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
#1: No debt	+18%	+18%	+7%	+2%	+2%
#2: \$5M debt	+5%	+5%	+5%	+1%	+1%
#3: \$7.5M debt	+1.8%	+1.8%	+1.8%	+1.8%	+1.8%
#4: \$10M debt	+1.5%	+1.5%	+1.5%	+1.5%	+1.5%

Cumulative Rate Revenue Increases

Option	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
#1: No debt	+18%	+39.2%	+49.0%	+52.0%	+55.0%
#2: \$5M debt	+5.0%	+10.3%	+15.8%	+16.9%	+18.1%
#3: \$7.5M debt	+1.8%	+3.6%	+5.5%	+7.4%	+9.3%
#4: \$10M debt	+1.5%	+3.0%	+4.6%	+6.1%	+7.7%

Debt Service Coverage Ratio (combined ratio for 2012, 2017, and new debt)

Option	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
#1: No debt	3.22	4.33	4.81	4.92	5.05
#2: \$5M debt	2.51	2.15	2.34	2.35	2.35
#3: \$7.5M debt	2.34	1.69	1.72	1.75	1.78
#4: \$10M debt	2.33	1.52	1.54	1.55	1.56

Table 1: Summary of Capital Funding Sources Town of Discovery Bay Wastewater Rate Study

	OPTION 1	OPTION 2	OPTION 3	OPTION 4
	No Debt	\$5M	\$7.5M	\$10M
Revenue Sources				
Existing Capital Reserves	\$271,800	\$271,800	\$271,800	\$121,800
Excess Operating Reserves	\$3,500,000	\$3,500,000	\$3,500,000	\$3,500,000
Capacity Fees	\$769,900	\$769,900	\$769,900	\$769,900
Rate Revenues	\$15,050,000	\$10,050,000	\$7,550,000	\$5,200,000
New Debt	<u>\$0</u>	\$5,000,000	\$7,500,000	\$10,000,000
Total Revenues	\$19,591,700	\$19,591,700	\$19,591,700	\$19,591,700
Total Capital Projects	\$19,591,700	\$19,591,700	\$19,591,700	\$19,591,700

Table 2: Reserves Town of Discovery Bay Wastewater Rate Study

Reserves	FY2018/19 Estimate	Water	Wastewater
Water & Wastewater Operating Reserves	\$5,142,601	\$755,828	\$4,386,773
Emergency Reserves	\$3,001,000	\$1,200,400	\$1,800,600
Sewer Infrastructure Replacement Fund	\$1,550,000	\$0	\$1,550,000
Pumps/Motors Replacement Fund	\$390,000	\$156,000	\$234,000
Water Infrastructure Replacement Fund	\$859,143	\$418,728	\$0
Generators Replacement Fund	\$175,000	\$70,000	\$105,000
Facilities & Vehicles Replacement Fund	\$310,852	\$117,426	\$193,426
Operating Reserves Total	\$5,142,601	\$755,828	\$4,386,773
Emergency Reserves	\$3,001,000	\$1,200,400	\$1,800,600
Infrastructure Replacement Total	\$2,844,580	\$762,154	\$2,082,426
Total Reserves	\$10,988,181	\$2,718,382	\$8,269,799

Table 3: Proposed Wastewater Rates and Charges - OPTION 1: No Debt Town of Discovery Bay Wastewater Rate Study

WASTEWATER	Proposed FY 2019/20		Proposed FY 2020/21		Proposed I	Proposed FY 2021/22		Proposed FY 2022/23		FY 2023/24	Proposed FY 2024/25		
Residential Unmetered	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	
	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	
Single Family - Each DU	\$82.55	\$990.63	\$96.73	\$1,160.76	\$114.15	\$1,369.80	\$122.14	\$1,465.68	\$124.58	\$1,494.96	\$127.07	\$1,524.84	
Multiple Family/Condos - Each DU	\$61.92	\$743.03	\$73.06	\$876.78	\$86.22	\$1,034.59	\$91.21	\$1,094.51	\$96.49	\$1,157.90	\$102.08	\$1,224.96	
Vacant	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	
Nonresidential Metered	U	se	Use		U	Use		e	U	lse	Use		
	(\$/	ccf)	(\$/	ccf)	(\$/	ccf)	(\$/d	cf)	(\$/	ccf)	(\$/ccf)		
Business/Government/Clubs	\$5.	734	\$6.	\$6.766		\$7.984		\$8.965		\$10.066		\$11.303	
Restaurants/Bars/Dining Facilities	rants/Bars/Dining Facilities \$16.793		\$19	.816	\$23	.383	\$25.	\$25.495		\$27.799		\$30.310	
Schools	ols \$5.161		\$6.090		\$7.	\$7.186		\$8.103		\$9.138		304	
Other Domestic Strength Users	\$5.	734	\$6.	\$6.766		\$7.984		\$8.965		\$10.066		\$11.303	

ccf = 100 cubic feet = 748 gallons

WASTEWATER	WASTEWATER Proposed FY 2019/20		Proposed FY 2020/21		Proposed	Proposed FY 2021/22		Proposed FY 2022/23		Proposed FY 2023/24		Proposed FY 2024/25	
Residential Unmetered	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	
	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	
Single Family - Each DU			17%	17%	18%	18%	7%	7%	2%	2%	2%	2%	
Multiple Family/Condos - Each DU			18%	18%	18%	18%	6%	6%	6%	6%	6%	6%	
Vacant			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Nonresidential Metered			Use		U	Use		e	ι	Jse	U:	Use	
			(\$/	ccf)	(\$/	ccf)	(\$/c	cf)	(\$,	/ccf)	(\$/ccf)		
Business/Government/Clubs			18	3%	18	3%	12	12%		12%		12%	
Restaurants/Bars/Dining Facilities			18%		18	18%		9%		9%		9%	
Schools			18	18%		18%		%	1	3%	13%		
Other Domestic Strength Users			18	18%		18%		12%		12%		12%	

DU = Dwelling Unit

ccf = 100 cubic feet = 748 gallons

Table 4: Wastewater Capital Cash Flows - OPTIO						
	Current FY2019/20	Projected FY2020/21	Projected FY2021/22	Projected FY2022/23	Projected FY2023/24	Projected FY2024/25
Emergency Reserves	1,800,600	1,800,600	1,800,600	1,800,600	1,800,600	1,800,600
Infrastructure Replacement	2,082,400	4,314,300	7,080,800	<u>958,200</u>	<u>26,200</u>	609,900
Beginning Balance	3,883,000	6,114,900	8,881,400	2,758,800	1,826,800	2,410,500
Revenues						
Capacity Fees (\$12,030/EDU)	168,400	120,300	120,300	120,300	120,300	120,300
Transfer from Operating	3,500,000	4,000,000	4,000,000	4,050,000	1,500,000	1,500,000
New Debt Proceeds	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Revenues	3,668,400	4,120,300	4,120,300	4,170,300	1,620,300	1,620,300
Capital Improvements WWTP Plant 1 Refurbishment	192,100	183,500	3,707,500	390,200	0	0
Denitrification	383,400	440,000	4,265,100	4,466,200	0	0
Lift Stations						
Lift Stations J, S, H	0	154,500	0	0	0	0
Lift Stations A, C, D, E	<u>0</u>	<u>0</u>	<u>212,200</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Lift Stations	0	154,500	212,200	0	0	0
Clarifier Rehab					•	
Plant 2 Clarifier #3 Rehabilitation	5,000	5,200	148,500	0	0	0
Clarifier #4 Repair (compan)	0	0	0	0	336,500	0
Clarifier #4 Repair (cement) Total Clarifier Rehab	<u>0</u> 5,000	<u>0</u> 5,200	<u>10,600</u> 159,100	<u>0</u> 0	<u>0</u> 336,500	<u>0</u> 0
	3,000	3,200	159,100	U	330,300	U
Additional Projects and Maintenance	25.000	0	0	0	440.600	0
Plant 2 RAS & WAS Pumping System	25,000	112 200	0	0	148,600	0
Replace Lagoon Dredge & Conduits CCTV Van (portable and push camera)	0 70,000	113,300 0	0 0	0	0 0	0
Install Screen Headworks at Plant #2	25,000	0	0	245,900	0	0
Minor Rehab to Piping at Plant #1	20,000	0	244,000	0	0	0
Outfall Diffuser Repairs	500,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Additional Projects and Maintenance	640,000	113,300	244,000	245,900	148,600	0
Other Master Plan Projects						
Emergency Storage Drain to Pump Sta. W	0	0	0	0	0	86,900
Solids Handling Improvements	0	0	0	0	0	208,700
WAS Pumps and Check Valves Replacement	0	0	0	0	0	124,000
Collection System Pump Stations	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>202,600</u>	<u>0</u>
Total Other Master Plan Projects	0	0	0	0	202,600	419,600
Mainline Piping Replacement	0	0	0	0	281,400	0
Building Rehab or Relocation Island Building by Well 1B	90,000	0	0	0	0	0
Move District Main Office Building		<u>247,200</u>	1,655,000	0	0	0
Total Relocation	<u>0</u> 90,000	247,200	1,655,000	<u>0</u> 0	<u>0</u> 0	<u>0</u> 0
Vehicle & Equipment Purchases						
New Truck	24,000	24,700	0	0	0	0
Woodchipper or Firebox	30,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Vehicle & Equipment	54,000	24,700	0	0	0	0
District Security						
Cyber Security	0	92,700	0	0	67,500	0
Phase 1	0	0	0	0	0	0
Phase 2	72,000	0	0	0	0	0
Phase 3	<u>0</u>	92,700	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total District Security	72,000	185,400	0	0	67,500	0
Total Capital Improvements	1,436,500	1,353,800	10,242,900	5,102,300	1,036,600	419,600
Total Net Revenues	2,231,900	2,766,500	(6,122,600)	(932,000)	583,700	1,200,700
Ending Balance	6,114,900	8,881,400	2,758,800	1,826,800	2,410,500	3,611,200

Table 5: Wastewater Operating Cash Flows – OPTION 1: No Debt Town of Discovery Bay Wastewater Rate Study

	Current FY2019/20	Projected FY2020/21	Projected FY2021/22	Projected FY2022/23	Projected FY2023/24	Projected FY2024/25
Beginning balance	\$4,387,000	\$3,326,400	\$1,763,600	\$1,424,400	\$1,555,000	\$4,368,200
Rate Increase		18.00%	18.00%	7.00%	2.00%	2.00%
Revenues						
Wastewater service	242.000	242.000	242.000	242.000	242.000	242.000
Zone 9 Reimbursement	243,000	243,000	243,000	243,000	243,000	243,000
Other & Misc	17,300	17,300	17,300	17,300	17,300	17,300
Property Taxes (unmetered)	6,021,200	7,105,000	8,383,900	8,970,800	9,150,200	9,333,200
New Customers	0	(47,000)	(55,000)	(56,000)	(30,000)	(3,000)
Vacant	13,900	27,900	46,600	64,500	80,700	97,600
Metered sewer flow	<u>17,000</u>	<u>17,000</u>	<u>17,000</u>	<u>17,000</u>	<u>17,000</u>	<u>17,000</u>
Total revenues	6,312,400	7,363,200	8,652,800	9,256,600	9,478,200	9,705,100
% increase in expenses			3.0%	3.0%	3.0%	3.0%
Expenses						
Operating Expenses						
Admin & Inter Govt. & Board	332,000	450,000	450,000	464,000	478,000	492,000
Staffing & Consulting Serv	593,000	1,090,000	1,090,000	1,090,000	1,090,000	1,090,000
Operations & Maint	334,000	538,000	554,000	571,000	588,000	606,000
Utilities	536,000	673,000	693,000	714,000	735,000	757,000
Service Contract	<u>977,000</u>	1,075,000	<u>1,107,000</u>	1,140,000	<u>1,175,000</u>	1,210,000
Total Operating Expenses	2,772,000	3,826,000	3,894,000	3,979,000	4,066,000	4,155,000
Net Operating Revenues	3,540,400	3,537,200	4,758,800	5,277,600	5,412,200	5,550,100
Debt Service [1]						
2012 Bonds Debt Service	741,000	743,000	744,000	740,000	745,000	743,000
2017 Bonds Debt Service	360,000	357,000	354,000	357,000	354,000	355,000
New Debt [2]	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Debt Service	1,101,000	1,100,000	1,098,000	1,097,000	1,099,000	1,098,000
Debt Service Coverage	3.22	3.22	4.33	4.81	4.92	5.05
Total Expenses	3,873,000	4,926,000	4,992,000	5,076,000	5,165,000	5,253,000
Net Revenues	2,439,400	2,437,200	3,660,800	4,180,600	4,313,200	4,452,100
Transfer to Capital Fund	3,500,000	4,000,000	4,000,000	4,050,000	1,500,000	1,500,000
O&M Ending balance	3,326,400	1,763,600	1,424,400	1,555,000	4,368,200	7,320,300
O&M Minimum balance target [3]	924,000	1,275,000	1,298,000	1,326,000	1,355,000	1,385,000

^{1 -} Based on year ended December 1

^{2 -} Estimated by Brandis Tallman at 4.5% over 30 years

^{3 - 4} months O&M expenses

Table 6: Proposed Wastewater Rates and Charges - OPTION 2: \$5M Town of Discovery Bay Wastewater Rate Study

WASTEWATER	Proposed F	FY 2019/20	Proposed FY 2020/21		Proposed I	Proposed FY 2021/22		Proposed FY 2022/23		Proposed FY 2023/24		Y 2024/25
Residential Unmetered	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly
	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)
Single Family - Each DU	\$82.55	\$990.63	\$86.17	\$1,034.04	\$90.48	\$1,085.76	\$95.00	\$1,140.00	\$95.95	\$1,151.40	\$96.91	\$1,162.92
Multiple Family/Condos - Each DU	\$61.92	\$743.03	\$64.93	\$779.22	\$68.10	\$817.17	\$71.41	\$856.97	\$74.89	\$898.71	\$78.54	\$942.48
Vacant	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00
Nonresidential Metered	U	se	U	se	Use		Us	se	L	Jse	Us	se
	(\$/6	ccf)	(\$/	ccf)	(\$/	ccf)	(\$/ccf)		(\$/ccf)		(\$/d	ccf)
Business/Government/Clubs	\$5.	734	\$6.	194	\$6.	692	\$7.229		\$7.810		\$8.4	437
Restaurants/Bars/Dining Facilities	\$16	.793	\$17	\$17.790		.846	\$19.	965	\$21	l.150	\$22.	405
Schools	\$5.	161	\$5.590		\$6.	055	\$6.5	558	\$7.103		\$7.6	593
Other Domestic Strength Users	\$5.	734	\$6.	194	\$6.	692	\$7.229		\$7.810		\$8.4	437

ccf = 100 cubic feet = 748 gallons

WASTEWATER	Proposed I	FY 2019/20	Proposed FY 2020/21		Proposed I	Proposed FY 2021/22		Proposed FY 2022/23		Proposed FY 2023/24		Proposed FY 2024/25	
Residential Unmetered	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	
	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	
Single Family - Each DU			4%	4%	5%	5%	5%	5%	1%	1%	1%	1%	
Multiple Family/Condos - Each DU			5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	
Vacant			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Nonresidential Metered			U	se	U	se	Us	e	ı	Jse	U:	se	
			(\$/	ccf)	(\$/	ccf)	(\$/c	cf)	(\$,	/ccf)	(\$/6	ccf)	
Business/Government/Clubs			8	%	8	%	8%		8%		8'	%	
Restaurants/Bars/Dining Facilities			6	6%		%	69	6		5%	6	%	
Schools			8	8%		%	89	8%		8%		%	
Other Domestic Strength Users			8	%	8	%	89	6		3%	89	%	

DU = Dwelling Unit

ccf = 100 cubic feet = 748 gallons

Emergency Reserves	Table 7: Wastewater Capital Cash Flows - OPTIO	N 2: \$5M					
Infrastructure Replacement 2,082,000 6,114,000 1,881,000 2,458,000 1,260,000 1,201,000			Projected FY2020/21	Projected FY2021/22	Projected FY2022/23	Projected FY2023/24	Projected FY2024/25
Reginning Balance 3,883,000 6,114,900 11,881,400 4,258,800 12,610,00 2,410,500 Revenues Capacity Fees (\$12,030/EDV) 168,400 120,300 </td <td>Emergency Reserves</td> <td>1,800,600</td> <td>1,800,600</td> <td>1,800,600</td> <td>1,800,600</td> <td>1,800,600</td> <td>1,800,600</td>	Emergency Reserves	1,800,600	1,800,600	1,800,600	1,800,600	1,800,600	1,800,600
Reviews	Infrastructure Replacement	2,082,400	4,314,300	10,080,800		<u>26,200</u>	609,900
Capacity Fees S12,030 Cut	Beginning Balance	3,883,000	6,114,900	11,881,400	4,258,800	1,826,800	2,410,500
Transfer from Operating \$,500,000 \$							
New Debt Proceeds			,			•	
Total Revenues 3,668,400 7,120,300 2,620,300 2,670,300 1,620,300 1,620,300 Capital Improvements WWTP Plant I Refurbishment 192,100 183,500 3,707,500 390,200 0 0 Unit Stations Unit Stations J.S.H 0 154,500 20 0 0 0 Lift Stations J.S.H 0 154,500 212,200 0 0 0 Clarifier Rehab 0 154,500 212,200 0 0 0 Clarifier Rehab 0 5,000 148,500 0 36,500 0 Clarifier AB Rehabilitation 5,000 5,200 148,500 0 365,500 0 Clarifier AB Repair (cement) 0 0 0 0 336,500 0 Clarifier AB Repair (cement) 0 0 159,100 0 386,500 0 Clarifier AB Repair (cement) 0 0 0 386,500 0 0 Clarifier AB Repair (cement) 0							_
Name							
WWPP Plant 1 Refurbishment 192,100 183,500 3,707,500 390,200 0 0 Denitrification 383,400 440,000 4,265,100 4,466,200 0 0 Lift Stations J, S, H 0 154,500 212,200 0 0 0 Clarifier Rations 0 154,500 212,200 0 0 0 Clarifier Rations 0 154,500 212,200 0 0 0 Clarifier Ration 5,000 5,200 148,500 0 336,500 0 Clarifier #A Repair (cement) 0 0 0 0 0 336,500 0 Clarifier #A Repair (cement) 0 0 0 159,100 0 336,500 0 Clarifier #A Repair (cement) 0 0 0 159,000 0 148,600 0 Clarifier #A Repair (cement) 0 0 0 148,600 0 0 Total Clarifier #A Repair (cement) 0 0		3,008,400	7,120,300	2,020,300	2,070,300	1,020,300	1,020,300
Lift Stations J, S, H		192,100	183,500	3,707,500	390,200	0	0
Lift Stations J, S, H Lift Stations A, C, D, E	Denitrification	383,400	440,000	4,265,100	4,466,200	0	0
Lift Stations A, C, D, E 0 154,500 212,200 0 0 0 Clarifier Rehab Plant Z Clarifier RB Rehabilitation 5,000 5,200 148,500 0	Lift Stations						
Total Lift Stations 0 154,500 212,200 0 0 Clarifier Rehab Plant 2 Clarifier #3 Rehabilitation 5,000 5,200 148,500 0 0 0 Clarifier #4 Repair (cement) 0 0 0 0 0 336,500 0 Total Clarifier #4 Repair (cement) 0 5,200 159,100 0 336,500 0 Additional Projects and Maintenance Plant 2 RAS & WAS Pumping System 25,000 0 0 0 148,600 0 0 Replace Lagoon Dredge & Conduits 0 113,300 0		0	154,500		0	0	0
Clarifier Rehab Plant 2 Clarifier #3 Rehabilitation 5,000 5,200 148,500 0 0 0 0 0 0 0 0 0					<u>0</u>	<u>0</u>	
Plant 2 Clarifier #3 Rehabilitation 5,000 5,200 148,500 0 336,500 0 0 Clarifier 1 & 2 RAS Pump and Check Valves 0 0 10,000 159,100 0 336,500 0 0 0 0 0 0 0 0 0	Total Lift Stations	0	154,500	212,200	0	0	0
Clarifier 1 & 2 RAS Pump and Check Valves (Clarifier 44 Repair (cement)							
Clarifier Rehab 0 0 10,500 0 0 0 0 Total Clarifier Rehab 5,000 5,000 159,100 0 336,500 0 Additional Projects and Maintenance Plant 2 RAS & WAS Pumping System 25,000 0 0 148,600 0 Replace Lagoon Dredge & Conduits 0 113,300 0 0 0 0 CCTV Van (portable and push camera) 70,000 0 0 245,900 0 0 0 Minor Rehab to Piping at Plant #1 20,000 0 244,000 202,500 0 202,500 0 202,500							
Total Clarifier Rehab 5,000 5,200 159,100 0 336,500 0							
Additional Projects and Maintenance Plant 2 RAS & WAS Pumping System 25,000 0 0 0 0 148,600 0 Replace Lagoon Dredge & Conduits 0 113,300 0 0 0 0 0 0 0 Replace Lagoon Dredge & Conduits 0 113,300 0 0 0 0 0 0 0 CCTV Van (portable and push camera) 70,000 0 0 0 0 0 0 0 0 Install Screen Headworks at Plant #1 2 25,000 0 0 244,000 0 0 0 0 0 Install Screen Headworks at Plant #1 2 25,000 0 0 244,000 0 0 0 0 0 Minor Rehab to Piping at Plant #1 2 20,000 0 0 244,000 0 0 0 0 0 Outfall Diffuser Repairs 500,000 0 0 244,000 0 245,900 148,600 0 Outfall Diffuser Repairs 500,000 0 0 0 0 0 0 0 0 0 0 Outfall Diffuser Repairs 500,000 0 0 0 0 0 0 0 0 0 0 0 Other Master Plan Projects 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						_	<u>U</u>
Plant 2 RAS & WAS Pumping System 25,000 0 0 148,600 0 Replace Lagoon Dredge & Conduits 0 113,300 0 0 0 0 CCTV Van (portable and push camera) 70,000 0 0 0 0 0 Minor Rehab to Piping at Plant #1 20,000 0 244,000 0 0 0 Outfall Diffuser Repairs 500,000 0 0 0 0 0 0 Otal Additional Projects and Maintenance 640,000 113,300 244,000 245,900 148,600 0 Cher Master Plan Projects 0 0 0 0 0 0 0 0 0 0 0 0 0 0 208,700 0 0 208,700 0 0 208,700 0 0 208,700 0 0 208,700 0 0 208,700 0 124,000 0 0 208,700 0 0 222,600 0 0		3,000	3,200	155,100	O	330,300	O
Replace Lagoon Dredge & Conduits 0 113,300 0 0 0 0 0 0 0 0 0		35 000	0	0	0	149.600	0
CCTV Van (portable and push camera) 70,000 0 0 0 0 0 0 0 0							
Install Screen Headworks at Plant #2							
Outfall Diffuser Repairs 500,000 0 0 0 0 0 Total Additional Projects and Maintenance 640,000 113,300 244,000 245,900 148,600 0 Other Master Plan Projects Emergency Storage Drain to Pump Sta. W 0 0 0 0 0 208,700 Sollds Handling Improvements 0 0 0 0 0 208,700 WAS Pumps and Check Valves Replacement 0 0 0 0 0 202,600 124,000 Collection System Pump Stations 0 0 0 0 0 202,600 419,600 Mainline Piping Replacement 0 0 0 0 222,600 419,600 Building Rehab or Relocation 1 1 5 0		•			245,900		
Total Additional Projects and Maintenance 640,000 113,300 244,000 245,900 148,600 0 Other Master Plan Projects Emergency Storage Drain to Pump Sta. W 0 0 0 0 0 20,8700 Solids Handling Improvements 0 0 0 0 0 2028,700 WAS Pumps and Check Valves Replacement 0 0 0 0 0 124,000 Collection System Pump Stations 0 0 0 0 0 202,600 0 0 Total Other Master Plan Projects 0 0 0 0 0 220,600 419,600 0 Mainline Piping Replacement 0	Minor Rehab to Piping at Plant #1	20,000	0	244,000	0	0	0
Other Master Plan Projects Emergency Storage Drain to Pump Sta. W 0 0 0 0 86,900 Solids Handling Improvements 0 0 0 0 208,700 WAS Pumps and Check Valves Replacement 0 0 0 0 222,600 0 Collection System Pump Stations 0 0 0 0 202,600 0 Collection System Pump Stations 0 0 0 0 202,600 0 Collection System Pump Stations 0 0 0 0 202,600 0 Mainline Piping Replacement 0 0 0 0 281,400 0 Building Rehab or Relocation 8 90,000 0 <td></td> <td></td> <td>_</td> <td></td> <td></td> <td>_</td> <td></td>			_			_	
Emergency Storage Drain to Pump Sta. W 0 0 0 0 86,900 Solids Handling Improvements 0 0 0 0 0 208,700 WAS Pumps and Check Valves Replacement 0 0 0 0 222,600 0 Collection System Pump Stations 0 0 0 0 202,600 419,600 Mainline Piping Replacement 0 0 0 0 281,400 0 Building Rehab or Relocation 1sland Building by Well 1B 90,000 0 0 0 0 0 0 0 Move District Main Office Building 0 247,200 1,655,000 0 <t< td=""><td>Total Additional Projects and Maintenance</td><td>640,000</td><td>113,300</td><td>244,000</td><td>245,900</td><td>148,600</td><td>0</td></t<>	Total Additional Projects and Maintenance	640,000	113,300	244,000	245,900	148,600	0
Solids Handling Improvements 0 0 0 0 0 208,700 WAS Pumps and Check Valves Replacement 0 0 0 0 0 124,000 Collection System Pump Stations 0 0 0 0 202,600 419,600 Mainline Piping Replacement 0 0 0 0 281,400 0 Building Rehab or Relocation Island Building by Well 1B 90,000 0 0 0 0 0 0 0 Move District Main Office Building 0 247,200 1,655,000 0<		0	0	0	0	0	06.000
WAS Pumps and Check Valves Replacement 0 0 0 0 222,600 0 Total Other Master Plan Projects 0 0 0 0 202,600 419,600 Mainline Piping Replacement 0 0 0 0 281,400 0 Building Rehab or Relocation 8 90,000 0							
Collection System Pump Stations 0 0 0 0 202,600 419,600 Total Other Master Plan Projects 0 0 0 0 202,600 419,600 Mainline Piping Replacement 0 0 0 0 281,400 0 Building Rehab or Relocation 8 8 90,000 0		_					•
Total Other Master Plan Projects 0 0 0 202,600 419,600 Mainline Piping Replacement 0 0 0 281,400 0 Building Rehab or Relocation Island Building by Well 1B 90,000 0 <t< td=""><td>·</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	·						
Building Rehab or Relocation Island Building by Well 1B 90,000 0 0 0 0 0 0 0 0		_			•	202,600	
Island Building by Well 1B 90,000 0 <t< td=""><td>Mainline Piping Replacement</td><td>0</td><td>0</td><td>0</td><td>0</td><td>281,400</td><td>0</td></t<>	Mainline Piping Replacement	0	0	0	0	281,400	0
Island Building by Well 1B 90,000 0 <t< td=""><td>Building Rehab or Relocation</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Building Rehab or Relocation						
Total Relocation 90,000 247,200 1,655,000 0 0 0 Vehicle & Equipment Purchases New Truck 24,000 24,700 0 0 0 0 Woodchipper or Firebox 30,000 0 0 0 0 0 0 Total Vehicle & Equipment 54,000 24,700 0		90,000	0	0	0	0	0
Total Relocation 90,000 247,200 1,655,000 0 0 0 Vehicle & Equipment Purchases Sequipment Purchases 24,000 24,700 0	<u> </u>				<u>0</u>	<u>0</u>	
New Truck 24,000 24,700 0 0 0 0 Woodchipper or Firebox 30,000 0 </td <td>Total Relocation</td> <td>90,000</td> <td>247,200</td> <td>1,655,000</td> <td>0</td> <td>0</td> <td>0</td>	Total Relocation	90,000	247,200	1,655,000	0	0	0
Woodchipper or Firebox 30,000 0 0 0 0 0 Total Vehicle & Equipment 54,000 24,700 0 0 0 0 District Security 0 92,700 0 0 67,500 0 Cyber Security 0 92,700 0 0 67,500 0 Phase 1 0 0 0 0 0 0 0 Phase 2 72,000 0 0 0 0 0 0 Phase 3 0 92,700 0 0 0 0 0 Total District Security 72,000 185,400 0 0 67,500 0 Total Capital Improvements 1,436,500 1,353,800 10,242,900 5,102,300 1,036,600 419,600 Total Net Revenues 2,231,900 5,766,500 (7,622,600) (2,432,000) 583,700 1,200,700	Vehicle & Equipment Purchases						
Total Vehicle & Equipment 54,000 24,700 0 0 0 0 District Security 0 92,700 0 0 67,500 0 Cyber Security 0 92,700 0 0 67,500 0 Phase 1 0 0 0 0 0 0 0 Phase 2 72,000 0 0 0 0 0 0 0 Phase 3 0 92,700 0			24,700				
District Security Cyber Security 0 92,700 0 67,500 0 Phase 1 0 0 0 0 0 0 0 Phase 2 72,000 0 <t< td=""><td></td><td></td><td></td><td></td><td><u>0</u></td><td><u>0</u></td><td></td></t<>					<u>0</u>	<u>0</u>	
Cyber Security 0 92,700 0 0 67,500 0 Phase 1 0 0 0 0 0 0 0 Phase 2 72,000 0 0 0 0 0 0 Phase 3 0 92,700 0 0 0 0 0 Total District Security 72,000 185,400 0 5,102,300 1,036,600 419,600 Total Capital Improvements 1,436,500 1,353,800 10,242,900 5,102,300 1,036,600 419,600 Total Net Revenues 2,231,900 5,766,500 (7,622,600) (2,432,000) 583,700 1,200,700	• •	54,000	24,700	0	0	0	0
Phase 1 0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>c= -00</td> <td></td>						c= -00	
Phase 2 72,000 0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Phase 3 Total District Security 0 Phase 3 Total District Security <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Total District Security 72,000 185,400 0 0 67,500 0 Total Capital Improvements 1,436,500 1,353,800 10,242,900 5,102,300 1,036,600 419,600 Total Net Revenues 2,231,900 5,766,500 (7,622,600) (2,432,000) 583,700 1,200,700			_				
Total Net Revenues 2,231,900 5,766,500 (7,622,600) (2,432,000) 583,700 1,200,700				0	0		0
Total Net Revenues 2,231,900 5,766,500 (7,622,600) (2,432,000) 583,700 1,200,700	Total Capital Improvements	1,436,500	1,353,800	10,242,900	5,102,300	1,036,600	419,600
	Ending Balance						

Table 8: Wastewater Operating Cash Flows – OPTION 2: \$5M Town of Discovery Bay Wastewater Rate Study

	Current FY2019/20	Projected FY2020/21	Projected FY2021/22	Projected FY2022/23	Projected FY2023/24	Projected FY2024/25
Beginning balance	\$4,387,000	\$3,326,400	\$2,991,800	\$2,112,400	\$1,445,200	\$1,836,700
Rate Increase		5.00%	5.00%	5.00%	1.00%	1.00%
Revenues						
Wastewater service	242.000	242.000	242.000	242.000	242.000	242.000
Zone 9 Reimbursement Other & Misc	243,000	243,000	243,000 17,300	243,000	243,000	243,000
	17,300	17,300	,	17,300	17,300	17,300
Property Taxes (unmetered)	6,021,200	6,322,300	6,638,400	6,970,300	7,040,000	7,110,400
New Customers	0	(33,000)	(33,000)	(32,000)	(16,000)	0
Vacant	13,900	24,800	36,900	50,200	62,200	74,400
Metered sewer flow	<u>17,000</u>	<u>17,000</u>	<u>17,000</u>	<u>17,000</u>	<u>17,000</u>	17,000
Total revenues	6,312,400	6,591,400	6,919,600	7,265,800	7,363,500	7,462,100
% increase in expenses			3.0%	3.0%	3.0%	3.0%
Expenses						
Operating Expenses						
Admin & Inter Govt. & Board	332,000	450,000	450,000	464,000	478,000	492,000
Staffing & Consulting Serv	593,000	1,090,000	1,090,000	1,090,000	1,090,000	1,090,000
Operations & Maint	334,000	538,000	554,000	571,000	588,000	606,000
Utilities	536,000	673,000	693,000	714,000	735,000	757,000
Service Contract	977,000	1,075,000	1,107,000	1,140,000	1,175,000	1,210,000
Total Operating Expenses	2,772,000	3,826,000	3,894,000	3,979,000	4,066,000	4,155,000
Net Operating Revenues	3,540,400	2,765,400	3,025,600	3,286,800	3,297,500	3,307,100
Debt Service [1]						
2012 Bonds Debt Service	741,000	743,000	744,000	740,000	745,000	743,000
2017 Bonds Debt Service	360,000	357,000	354,000	357,000	354,000	355,000
New Debt [2]	, <u>0</u>	0	307,000	307,000	307,000	<u>307,000</u>
Total Debt Service	1,101,000	1,100,000	1,405,000	1,404,000	1,406,000	1,405,000
Debt Service Coverage	3.22	2.51	2.15	2.34	2.35	2.35
Total Expenses	3,873,000	4,926,000	5,299,000	5,383,000	5,472,000	5,560,000
Net Revenues	2,439,400	1,665,400	1,620,600	1,882,800	1,891,500	1,902,100
Transfer to Capital Fund	3,500,000	2,000,000	2,500,000	2,550,000	1,500,000	1,500,000
O&M Ending balance	3,326,400	2,991,800	2,112,400	1,445,200	1,836,700	2,238,800
O&M Minimum balance target [3]	924,000	1,275,000	1,298,000	1,326,000	1,355,000	1,385,000

^{1 -} Based on year ended December 1

^{2 -} Estimated by Brandis Tallman at 4.5% over 30 years

^{3 - 4} months O&M expenses

Table 9: Proposed Wastewater Rates and Charges - OPTION 3: \$7.5M Town of Discovery Bay Wastewater Rate Study

WASTEWATER	Proposed F	Y 2019/20	Proposed FY 2020/21		Proposed I	FY 2021/22	Proposed FY 2022/23		Proposed	FY 2023/24	Proposed FY 2024/25	
Residential Unmetered	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly
	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)
Single Family - Each DU	\$82.55	\$990.63	\$83.52	\$1,002.24	\$85.02	\$1,020.24	\$86.55	\$1,038.60	\$88.11	\$1,057.32	\$89.70	\$1,076.40
Multiple Family/Condos - Each DU	\$61.92	\$743.03	\$64.00	\$768.01	\$66.15	\$793.82	\$68.38	\$820.51	\$70.67	\$848.09	\$73.05	\$876.60
Vacant	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00
Nonresidential Metered	U	se	U	se	U	se	Us	e	L	Jse	Us	se
	(\$/6	ccf)	(\$/	ccf)	(\$/	ccf)	(\$/ccf)		(\$/ccf)		(\$/d	ccf)
Business/Government/Clubs	\$5.	734	\$6.	083	\$6.	453	\$6.846		\$7.263		\$7.7	705
Restaurants/Bars/Dining Facilities	\$16	.793	\$17	\$17.454		.141	\$18.	855	\$19	9.598	\$20.	369
Schools	\$5.	161	\$5.491		\$5.	843	\$6.2	217	\$6.615		\$7.0	039
Other Domestic Strength Users	\$5.	734	\$6.	083	\$6.	453	\$6.846		\$7.263		\$7.705	

ccf = 100 cubic feet = 748 gallons

WASTEWATER	Proposed I	Y 2019/20	Proposed I	FY 2020/21	Proposed I	FY 2021/22	Proposed FY 2022/23		Proposed	FY 2023/24	Proposed FY 2024/25	
Residential Unmetered	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly
	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)
Single Family - Each DU			1.2%	1.2%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
Multiple Family/Condos - Each DU			3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Vacant			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Nonresidential Metered			U	se	U	se	Us	e	ι	Jse	Us	se
			(\$/	ccf)	(\$/	ccf)	(\$/c	ccf)	(\$	/ccf)	(\$/0	ccf)
Business/Government/Clubs			6	%	6	%	6%		6%		69	%
Restaurants/Bars/Dining Facilities			4	4%		%	49	4%		4%	49	%
Schools			6%		6	%	6%		6%		6%	
Other Domestic Strength Users			6	%	6	%	6%	6		5%	69	%

DU = Dwelling Unit

ccf = 100 cubic feet = 748 gallons

Table 10: Wastewater Capital Cash Flows - OPTIO	Current	Projected	Projected	Projected	Projected	Projected
	FY2019/20	FY2020/21	FY2021/22	FY2022/23	FY2023/24	FY2024/25
Emergency Reserves	1,800,600	1,800,600	1,800,600	1,800,600	1,800,600	1,800,600
Infrastructure Replacement	<u>2,082,400</u>	4,314,300	12,130,800	3,508,200	<u>26,200</u>	609,900
Beginning Balance	3,883,000	6,114,900	13,931,400	5,308,800	1,826,800	2,410,500
Revenues						
Capacity Fees (\$12,030/EDU)	168,400	120,300	120,300	120,300	120,300	120,300
Transfer from Operating	3,500,000	1,550,000	1,500,000	1,500,000	1,500,000	1,500,000
New Debt Proceeds	<u>0</u>	7,500,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Revenues	3,668,400	9,170,300	1,620,300	1,620,300	1,620,300	1,620,300
Capital Improvements WWTP Plant 1 Refurbishment	192,100	183,500	3,707,500	390,200	0	0
Denitrification	383,400	440,000	4,265,100	4,466,200	0	0
Lift Stations						
Lift Stations J, S, H	0	154,500	0	0	0	0
Lift Stations A, C, D, E	<u>0</u>	<u>0</u>	212,200	<u>0</u>	<u>0</u>	<u>0</u>
Total Lift Stations	0	154,500	212,200	0	0	0
Clarifier Rehab						
Plant 2 Clarifier #3 Rehabilitation	5,000	5,200	148,500	0	0	0
Clarifier 1 & 2 RAS Pump and Check Valves	0	0	0	0	336,500	0
Clarifier #4 Repair (cement)	<u>0</u>	<u>0</u>	<u>10,600</u>	<u>0</u> 0	<u>0</u>	<u>0</u>
Total Clarifier Rehab	5,000	5,200	159,100	0	336,500	0
Additional Projects and Maintenance						
Plant 2 RAS & WAS Pumping System	25,000	0	0	0	148,600	0
Replace Lagoon Dredge & Conduits	0	113,300	0	0	0	0
CCTV Van (portable and push camera)	70,000	0	0	0	0	0
Install Screen Headworks at Plant #2	25,000	0	0	245,900	0	0
Minor Rehab to Piping at Plant #1	20,000	0	244,000	0	0	0
Outfall Diffuser Repairs	500,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Additional Projects and Maintenance	640,000	113,300	244,000	245,900	148,600	0
Other Master Plan Projects						
Emergency Storage Drain to Pump Sta. W	0	0	0	0	0	86,900
Solids Handling Improvements	0	0	0	0	0	208,700
WAS Pumps and Check Valves Replacement	0	0	0	0	0	124,000
Collection System Pump Stations	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>202,600</u>	<u>0</u>
Total Other Master Plan Projects	0	0	0	0	202,600	419,600
Mainline Piping Replacement	0	0	0	0	281,400	0
Building Rehab or Relocation						
Island Building by Well 1B	90,000	0	0	0	0	0
Move District Main Office Building	<u>0</u>	<u>247,200</u>	<u>1,655,000</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Relocation	90,000	247,200	1,655,000	0	0	0
Vehicle & Equipment Purchases						
New Truck	24,000	24,700	0	0	0	0
Woodchipper or Firebox	30,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Vehicle & Equipment	54,000	24,700	0	0	0	0
District Security						
Cyber Security	0	92,700	0	0	67,500	0
Phase 1	0	0	0	0	0	0
Phase 2	72,000	0	0	0	0	0
Phase 3	<u>0</u>	92,700	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total District Security	72,000	185,400	0	0	67,500	0
Total Capital Improvements	1,436,500	1,353,800	10,242,900	5,102,300	1,036,600	419,600
Total Net Revenues	2,231,900	7,816,500	(8,622,600)	(3,482,000)	583,700	1,200,700
Ending Balance	6,114,900	13,931,400	5,308,800	1,826,800	2,410,500	3,611,200
	5,111,500	_5,55_1,700	2,200,000	_,0_0,000	_, .10,500	3,011,200

Table 11: Wastewater Operating Cash Flows – OPTION 3: \$7.5M Town of Discovery Bay Wastewater Rate Study

	Current FY2019/20	Projected FY2020/21	Projected FY2021/22	Projected FY2022/23	Projected FY2023/24	Projected FY2024/25
Beginning balance	\$4,387,000	\$3,326,400	\$3,252,400	\$2,828,900	\$2,450,700	\$2,117,200
Rate Increase		1.80%	1.80%	1.80%	1.80%	1.80%
Revenues						
Wastewater service	242,000	242.000	242.000	242.000	242.000	242.000
Zone 9 Reimbursement Other & Misc	243,000 17,300	243,000 17,300	243,000 17,300	243,000 17,300	243,000 17,300	243,000 17,300
Property Taxes (unmetered)	6,021,200	6,129,600	6,239,900	6,352,200	6,466,500	6,582,900
New Customers	0,021,200	(29,000)	(23,000)	(17,000)	(9,000)	(2,000)
Vacant	13,900	24,100	34,700	45,700	57,100	68,900
Metered sewer flow	17,000	17,000	17,000	17,000	17,000	17,000
Total revenues	6,312,400	6,402,000	6,528,900	6,658,200	6,791,900	6,927,100
% increase in expenses Expenses			3.0%	3.0%	3.0%	3.0%
Operating Expenses	222 000	450.000	450.000	464.000	470.000	402.000
Admin & Inter Govt. & Board	332,000 593,000	450,000	450,000	464,000	478,000	492,000
Staffing & Consulting Serv Operations & Maint	,	1,090,000 538,000	1,090,000 554,000	1,090,000 571,000	1,090,000 588,000	1,090,000 606,000
Utilities	334,000 536,000	673,000	693,000	714,000	735,000	757,000
Service Contract	977,000	1,075,000	1,107,000	1,140,000	1,175,000	1,210,000
Total Operating Expenses	2,772,000	3,826,000	3,894,000	3,979,000	4,066,000	4,155,000
Net Operating Revenues	3,540,400	2,576,000	2,634,900	2,679,200	2,725,900	2,772,100
Debt Service [1]						
2012 Bonds Debt Service	741,000	743,000	744,000	740,000	745,000	743,000
2017 Bonds Debt Service	360,000	357,000	354,000	357,000	354,000	355,000
New Debt [2]	<u>0</u>	<u>0</u>	460,400	<u>460,400</u>	460,400	<u>460,400</u>
Total Debt Service	1,101,000	1,100,000	1,558,400	1,557,400	1,559,400	1,558,400
Debt Service Coverage	3.22	2.34	1.69	1.72	1.75	1.78
Total Expenses	3,873,000	4,926,000	5,452,400	5,536,400	5,625,400	5,713,400
Net Revenues	2,439,400	1,476,000	1,076,500	1,121,800	1,166,500	1,213,700
Transfer to Capital Fund	3,500,000	1,550,000	1,500,000	1,500,000	1,500,000	1,500,000
O&M Ending balance	3,326,400	3,252,400	2,828,900	2,450,700	2,117,200	1,830,900
O&M Minimum balance target [3]	924,000	1,275,000	1,298,000	1,326,000	1,355,000	1,385,000

^{1 -} Based on year ended December 1

^{2 -} Estimated by Brandis Tallman at 4.5% over 30 years

^{3 - 4} months O&M expenses

Table 12: Proposed Wastewater Rates and Charges - OPTION 4: \$10M Town of Discovery Bay Wastewater Rate Study

WASTEWATER	Proposed F	FY 2019/20	Proposed FY 2020/21		Proposed I	FY 2021/22	Proposed FY 2022/23		Proposed FY 2023/24		Proposed FY 2024/25	
Residential Unmetered	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly
	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)
Single Family - Each DU	\$82.55	\$990.63	\$83.34	\$1,000.08	\$84.59	\$1,015.08	\$85.86	\$1,030.32	\$87.15	\$1,045.80	\$88.46	\$1,061.52
Multiple Family/Condos - Each DU	\$61.92	\$743.03	\$63.89	\$766.64	\$65.92	\$790.99	\$68.01	\$816.12	\$70.17	\$842.05	\$72.40	\$868.80
Vacant	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00	\$18.67	\$224.00
Nonresidential Metered	U	se	U	se	U	se	Us	e	U	lse	Us	se
	(\$/	ccf)	(\$/	ccf)	(\$/ccf)		(\$/ccf)		(\$/ccf)		(\$/ccf)	
Business/Government/Clubs	\$5.	734	\$6.	050	\$6.	384	\$6.737		\$7.109		\$7.5	501
Restaurants/Bars/Dining Facilities	\$16	.793	\$17	\$17.337		.899	\$18.	479	\$19	9.078	\$19.	696
Schools	\$5.	161	\$5.462		\$5.	781	\$6.1	18	\$6.475		\$6.853	
Other Domestic Strength Users	\$5.	734	\$6.	050	\$6.	384	\$6.737		\$7.109		\$7.501	

ccf = 100 cubic feet = 748 gallons

WASTEWATER	Proposed I	FY 2019/20	Proposed FY 2020/21		Proposed I	Proposed FY 2021/22		Proposed FY 2022/23		Proposed FY 2023/24		Proposed FY 2024/25	
Residential Unmetered	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly	
	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	(\$/month)	(\$/year)	
Single Family - Each DU			1.0%	1.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	
Multiple Family/Condos - Each DU			3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	
Vacant			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Nonresidential Metered			U	se	U	se	Us	e	ı	Jse	Us	se	
			(\$/	ccf)	(\$/	ccf)	(\$/c	cf)	(\$,	/ccf)	(\$/0	ccf)	
Business/Government/Clubs			6	%	6	%	6%		6%		69	%	
Restaurants/Bars/Dining Facilities			3	3%		%	39	6	3%		39	%	
Schools			6	6%		%	69	6%		6%		%	
Other Domestic Strength Users			6	%	6	%	6%	6	(5%	69	%	

DU = Dwelling Unit

ccf = 100 cubic feet = 748 gallons

Table 13: Wastewater Capital Cash Flows - OPTIO	ON 4: \$10M Current FY2019/20	Projected FY2020/21	Projected FY2021/22	Projected FY2022/23	Projected FY2023/24	Projected FY2024/25
Emergency Reserves	1,800,600	1,800,600	1,800,600	1,800,600	1,800,600	1,800,600
Infrastructure Replacement	2,082,400	4,314,300	14,080,800	4,958,200	976,200	1,159,900
Beginning Balance	3,883,000	6,114,900	15,881,400	6,758,800	2,776,800	2,960,500
Revenues						
Capacity Fees (\$12,030/EDU)	168,400	120,300	120,300	120,300	120,300	120,300
Transfer from Operating	3,500,000	1,000,000	1,000,000	1,000,000	1,100,000	1,100,000
New Debt Proceeds	<u>0</u>	10,000,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Revenues	3,668,400	11,120,300	1,120,300	1,120,300	1,220,300	1,220,300
Capital Improvements						
WWTP Plant 1 Refurbishment	192,100	183,500	3,707,500	390,200	0	0
Denitrification	383,400	440,000	4,265,100	4,466,200	0	0
Lift Stations						
Lift Stations J, S, H	0	154,500	0	0	0	0
Lift Stations A, C, D, E	<u>0</u>	<u>0</u>	<u>212,200</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Lift Stations	0	154,500	212,200	0	0	0
Clarifier Rehab						
Plant 2 Clarifier #3 Rehabilitation	5,000	5,200	148,500	0	0	0
Clarifier 1 & 2 RAS Pump and Check Valves	0	0	0	0	336,500	0
Clarifier #4 Repair (cement)	<u>0</u>	<u>0</u>	<u>10,600</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Clarifier Rehab	5,000	5,200	159,100	0	336,500	0
Additional Projects and Maintenance						
Plant 2 RAS & WAS Pumping System	25,000	0	0	0	148,600	0
Replace Lagoon Dredge & Conduits	0	113,300	0	0	0	0
CCTV Van (portable and push camera)	70,000	0	0	0	0	0
Install Screen Headworks at Plant #2	25,000	0	0	245,900	0	0
Minor Rehab to Piping at Plant #1	20,000	0	244,000	0	0	0
Outfall Diffuser Repairs Total Additional Projects and Maintenance	<u>500,000</u> 640,000	<u>0</u> 113,300	<u>0</u> 244,000	<u>0</u> 245,900	<u>0</u> 148,600	<u>0</u> 0
Other Master Plan Projects						
Emergency Storage Drain to Pump Sta. W	0	0	0	0	0	86,900
Solids Handling Improvements	0	0	0	0	0	208,700
WAS Pumps and Check Valves Replacement	0	0	0	0	0	124,000
Collection System Pump Stations	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	202,600	<u>0</u>
Total Other Master Plan Projects	0	0	0	0	202,600	419,600
Mainline Piping Replacement	0	0	0	0	281,400	0
Building Rehab or Relocation						
Island Building by Well 1B	90,000	0	0	0	0	0
Move District Main Office Building	<u>0</u>	247,200	1,655,000	<u>0</u>	<u>0</u>	<u>0</u>
Total Relocation	90,000	247,200	1,655,000	0	0	0
Vehicle & Equipment Purchases						
New Truck	24,000	24,700	0	0	0	0
Woodchipper or Firebox	30,000	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Vehicle & Equipment	54,000	24,700	0	0	0	0
District Security						
Cyber Security	0	92,700	0	0	67,500	0
Phase 1	0	0	0	0	0	0
Phase 2	72,000	0	0	0	0	0
Phase 3	<u>0</u>	92,700	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total District Security	72,000	185,400	0	0	67,500	0
Total Capital Improvements	1,436,500	1,353,800	10,242,900	5,102,300	1,036,600	419,600
Total Net Revenues	2,231,900	9,766,500	(9,122,600)	(3,982,000)	183,700	800,700
Ending Balance	6,114,900	15,881,400	6,758,800	2,776,800	2,960,500	3,761,200

Table 14: Wastewater Operating Cash Flows – OPTION 4: \$10M Town of Discovery Bay Wastewater Rate Study

	Current FY2019/20	Projected FY2020/21	Projected FY2021/22	Projected FY2022/23	Projected FY2023/24	Projected FY2024/25
Beginning balance	\$4,387,000	\$3,326,400	\$3,788,200	\$3,678,300	\$3,595,200	\$3,435,700
Rate Increase		1.50%	1.50%	1.50%	1.50%	1.50%
Revenues						
Wastewater service	242.000	242.000	242.000	242.000	242.000	242.000
Zone 9 Reimbursement Other & Misc	243,000 17,300	243,000 17,300	243,000 17,300	243,000 17,300	243,000 17,300	243,000 17,300
Property Taxes (unmetered)	6,021,200	6,111,500	6,203,200	6,296,200	6,390,600	6,486,500
New Customers	0,021,200	(25,000)	(19,000)	(12,000)	(5,000)	0,480,300
Vacant	13,900	24,000	34,500	45,300	56,500	67,900
Metered sewer flow	17,000	17,000	17,000	17,000	17,000	17,000
Total revenues	6,312,400	6,387,800	6,496,000	6,606,800	6,719,400	6,831,700
% increase in expenses Expenses			3.0%	3.0%	3.0%	3.0%
Operating Expenses		.=	.=		.=0.000	
Admin & Inter Govt. & Board	332,000	450,000	450,000	464,000	478,000	492,000
Staffing & Consulting Serv	593,000	1,090,000	1,090,000	1,090,000	1,090,000	1,090,000
Operations & Maint Utilities	334,000 536,000	538,000 673,000	554,000 693,000	571,000 714,000	588,000 735,000	606,000 757,000
Service Contract	977,000	1,075,000	1,107,000	1,140,000	1,175,000	1,210,000
Total Operating Expenses	2,772,000	3,826,000	3,894,000	3,979,000	4,066,000	4,155,000
Net Operating Revenues	3,540,400	2,561,800	2,602,000	2,627,800	2,653,400	2,676,700
Debt Service [1]						
2012 Bonds Debt Service	741,000	743,000	744,000	740,000	745,000	743,000
2017 Bonds Debt Service	360,000	357,000	354,000	357,000	354,000	355,000
New Debt	<u>0</u>	<u>0</u>	613,900	613,900	613,900	613,900
Total Debt Service	1,101,000	1,100,000	1,711,900	1,710,900	1,712,900	1,711,900
Debt Service Coverage	3.22	2.33	1.52	1.54	1.55	1.56
Total Expenses	3,873,000	4,926,000	5,605,900	5,689,900	5,778,900	5,866,900
Net Revenues	2,439,400	1,461,800	890,100	916,900	940,500	964,800
Transfer to Capital Fund	3,500,000	1,000,000	1,000,000	1,000,000	1,100,000	1,100,000
O&M Ending balance	3,326,400	3,788,200	3,678,300	3,595,200	3,435,700	3,300,500
O&M Minimum balance target [3]	924,000	1,275,000	1,298,000	1,326,000	1,355,000	1,385,000

^{1 -} Based on year ended December 1

^{2 -} Estimated by Brandis Tallman at 4.5% over 30 years

^{3 - 4} months O&M expenses





