COMMISSION OF SILICON VALLEY CLEAN WATER JOINT POWERS AUTHORITY SPECIAL MEETING – Monday, January 28, 2019 8:00 a.m.

Place: Pelican Conference Room Silicon Valley Clean Water 1400 Radio Road, 2nd Floor Redwood City, California

COMMISSIONERS

COUNCIL MEMBER WARREN LIEBERMAN, PhD., BELMONT – CHAIR BOARD MEMBER GEORGE S. OTTE, P.E., WEST BAY SANITARY DISTRICT – SECRETARY COUNCIL MEMBER ALICIA AGUIRRE, REDWOOD CITY – MEMBER COUNCIL MEMBER MARK OLBERT, SAN CARLOS – MEMBER

MANAGER: TERESA A. HERRERA ATTORNEY FOR THE AUTHORITY: CHRISTINE C. FITZGERALD CONTROLLER: KIMBRA MCCARTHY TREASURER: MATTHEW ANDERSON

AMERICANS WITH DISABILITIES ACT

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact SVCW (650) 591-7121. Notification in advance of the meeting will enable the Authority to make reasonable arrangements to ensure accessibility to this meeting.

AGENDA

- 1. CALL TO ORDER
- 2. ROLL CALL
- 3. PLEDGE OF ALLEGIANCE
- 4. PUBLIC COMMENT

Any member of the public may address and ask questions of the Chair under this item relating to any matter within the Commission's jurisdiction that does not appear as a separate item on the Agenda. An opportunity will be provided for members of the public to address the Chair and ask questions about any item that is listed on the agenda at the time the Commission considers the item and before action is taken. If you address the Commission on a non-agenda item, please be aware that the Ralph M. Brown Act (Gov. C. § 54950 et seq.) prohibits the Commission from acting on or discussing such matters at this meeting. Any such item may be referred to staff for a decision with regard to placing it on a future agenda for discussion, action or a report.

5. SAFETY MOMENT and REPORTS

- A. Safety Moment
- B. Manager's Report (verbal)
- C. Financial Reports
 - 1. Investment Report Novem
 - 2. Investment Report
- D. Engineering Projects Status Update
- E. Commission Requested Staff-Level Action Items
- F. RESCU Program Design-Build Project Status Update

6. MATTERS OF COMMISSION MEMBER'S INTEREST

- A. Set 2019 Commission Meeting Calendar
- 7. CONSIDERATION OF MOTION APPROVING CONSENT CALENDAR
- 8. BUSINESS ITEMS
 - A. CONSIDERATION OF MOTION TO APPROVE TASK ORDERS TO CASCADE INTEGRATION & DEVELOPMENT FOR SCADA AUTOMATION PROGRAMMING

Proposed Actions:

- i. Move approval of TASK ORDER SCOPE AND BUDGET FOR PROGRAMMING SERVICES IN THE AMOUNT OF \$220,618 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS (Capital Project #293) – CASCADE INTEGRATION & DEVELOPMENT
- ii. Move approval of TASK ORDER SCOPE AND BUDGET FOR AUTOMATION PROGRAMMING SERVICES IN THE AMOUNT OF \$160,376 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS (CIP #9222) – CASCADE INTEGRATION & DEVELOPMENT

November 2018 December 2018 December 2018 B. CONSIDERATION OF MOTION TO RECEIVE AND ACCEPT PRESENTATION OF LONG RANGE FINANCIAL PLAN – 2019 UPDATE

Proposed Action:

MOVE APPROVAL OF RECEIPT AND ACCEPTANCE OF SILICON VALLEY CLEAN WATER LONG RANGE FINANCIAL PLAN – 2019 UPDATE

- 9. CLOSED SESSION
 - A. <u>CONFERENCE WITH LEGAL COUNSEL ANTICIPATED LITIGATION</u> Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Government Code Section 54956.9 (One Potential Case)
- 10. RECONVENE IN OPEN SESSION Announce action taken in Closed Session, if any.
- 11. ADJOURN

NOTICE TO PUBLIC

All matters listed under CONSENT CALENDAR are considered to be routine. There may be discussion on items on the CONSENT CALENDAR. All items will be enacted by one motion with a roll call vote unless members of the Commission, staff, or public request specific items be removed from the CONSENT CALENDAR for separate action.

- 7. A. APPROVAL OF MINUTES December 6, 2018 Meeting
 - B. CONSIDERATION OF MOTION APPROVING CLAIMS AND CHECKS DATED NOVEMBER 30, 2018, DECEMBER 14 AND 28, 2018, AND JANUARY 2, 11, AND 18, 2019 AND NECESSARY PAYMENTS THROUGH JANUARY 18, 2019
 - C. CONSIDERATION OF RESOLUTION REVISING ADMINISTRATIVE POLICY 2017-01, STATEMENT OF DEBT MANAGEMENT POLICY

Proposed Action:

Move adoption of RESOLUTION APPROVING AND ADOPTING REVISION B TO ADMINISTRATIVE POLICY 2017-01, STATEMENT OF DEBT MANAGEMENT POLICY

D. CONSIDERATION OF RESOLUTION RATIFYING APPOINTMENT OF SECRETARY PRO TEM

Proposed Action:

Move adoption of RESOLUTION APPROVING AND RATIFYING APPOINTMENT OF JESSICA MANGUAL AS SECRETARY PRO TEM OF SILICON VALLEY CLEAN WATER AND RESCINDING RESOULUTION NO. SVCW 17-69

AGENDA ITEM 5A

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SAFETY MOMENT

4 Tips for Driving in Rain



Did you know it only takes 1/12th an inch of rain and 35 mph to hydroplane? The roads are more dangerous when rain comes after a dry spell. (Rain slicks the road with accumulated oil and dirt). But you just need water. Even though most of the oil washes off after one day's rain, wet roads are dangerous—rainy weather or not. Limited visibility adds to the danger. Drive smart. Follow

these four driving tips for driving in rain.

1. Turn your headlights on

Day or night keep your headlights on while driving in rain. In many states, laws require headlights during rain or whenever visibility is less than 1,000 feet. That is about a quarter of a mile or three and one-third football fields.

2. Newer tires, awesome breaks and wipers

Threadbare tires are dangerous. Keep your traction at top performance. Maintain relatively new tires with deep tread. Or, get some all-weather tires. This should help if you hydroplane.

Get regular brake checks.

Keep your windshield wiper blades ready for rainy days—before the rain comes.

What to do if you hydroplane?

Ease off the accelerator and continue driving steadily forward. **Do not** slam on the breaks.

3. Don't use cruise control

Rainy weather demands full attention. Keep your eyes on the road, your hands on the wheel, and your feet ready for action.

If you hydroplane, cruise control can cause you to lose control. And, if you do hydroplane, the lack of traction may cause the cruise control to accelerate.

4. Drive smarter

Smart people adjust their strategy around changing conditions. Weather is one of those things. Driving in rain or any inclement weather be careful and pull back:

Keep your distance. You never know when the person ahead of you will spin out. **Do not tailgate** — especially in limited visibility.

Slow down. Take corners slower.

Be patient. Expect extra traffic.

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AGENDA ITEM 5C

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SILICON VALLEY CLEAN WATER

JOINT POWERS AUTHORITY ~ A PUBLIC ENTITY



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CITY OF SAN CARLOS | CITY OF REDWOOD CITY | CITY OF BELMONT | WEST BAY SANITARY DISTRICT

SILICON VALLEY CLEAN WATER INVESTMENT LISTING November 30, 2018

							Esti	mated Annual
Broker/Dealer	Composite		Coupon	Yield to				\$ Yield
Investment Name Annual OPS and CAP Budget Reserve	Credit	Maturity	Rate	Maturity	Par Value	Market Value	Cost	Earnings
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2020	5.000%	3.07	18,850	19,090	19,887	586
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.77	60,000	59,736	61,111	1,656
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.82	30,000	29,072	30,263	821
FEDERAL HOME LOAN BKS CONS BDS FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	07/01/2019 09/13/2019	4.375% 4.500%	2.78 2.81	50,000 100,000	50,506 101,353	51,283 103,311	1,404 2,847
FEDERAL NATL MTG ASSN	AA+	06/22/2020	4.500%	2.01	30,000	29,415	30,253	820
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.83	100,000	97,405	99,751	2,757
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.84	100,000	96,798	99,757	2,745
FEDERAL NATL MTG ASSN GTD REMIC	NR	09/25/2019	2.171%	2.56	132,287	131,401	134,023	3,357
FEDERAL NATL MTG ASSN FEDERAL HOME LN MTG CORP MULTICLASS	AA+ NR	09/25/2020 11/25/2019	1.750% 1.869%	2.97 3.22	100,000 111,769	97,849 110,727	100,475 111,612	2,907 3,560
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.63	30,000	29,879	30,127	786
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.69	30,000	29,628	30,078	798
FEDERAL HOME LN MTG CORP MULTICLASS	N.A.	04/15/2020	4.000%	4.07	405	405	417	16
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2019	5.500%	3.09	8,178	8,220	8,649	254
FEDERAL NATL MTG ASSN GTD PASSTHRU FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A. N.A.	03/01/2020 04/01/2020	5.500% 5.000%	4.45 3.11	208 9,644	208 9,971	215 10,180	9 310
SMALL BUSINESS ADMIN GTD LN POOL	N.A.	02/25/2019	5.000%	0.06	4,989	4,964	5,177	310
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	2.70	50,000	49,719	49,856	1,343
MONTGOMERY CNTY MD CTFS PARTN COPS	N.A.	11/01/2019	1.200%	-	100,000	98,377	100,019	-
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	3.43	100,000	98,872	103,510	3,389
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	3.13	100,000	98,820	103,258	3,093
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.91	110,000	111,186	114,357	3,232
FEDERAL HOME LN MTG CORP FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	12/30/2019 07/19/2021	1.500% 2.030%	2.74 2.98	80,000 60,000	78,902 58,532	80,000 60,000	2,164 1,741
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	3.20	40,000	38,847	40,000	1,242
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.88	80,000	78,438	80,000	2,259
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.88	150,000	147,489	150,000	4,249
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.78	70,000	68,627	69,767	1,909
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.84	70,000	67,130	69,332	1,903
FEDERAL HOME LN MTG CORP FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	01/13/2022 07/29/2020	2.375% 1.830%	2.85 2.85	35,000 140,000	34,435 137,778	35,870 140,769	983 3,925
FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	06/12/2020	1.750%	2.85	140,000	137,721	140,648	3,925
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.82	90,000	86,730	89,224	2,447
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.82	90,000	86,312	89,001	2,437
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.84	30,000	29,411	30,000	836
ALTRIA GROUP INC SR NT	A-	08/09/2022	2.850%	3.90	30,000	28,881	30,230	1,126
US TREASURY NOTE	NR	03/15/2020	1.625%	2.77	50,000	49,270	49,813	1,366
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LN MTG CORP	AA+ AA+	09/11/2020 03/26/2021	1.620% 2.700%	2.91 2.97	140,000 50,000	137,077 49,633	138,371 49,938	3,988 1,476
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/15/2020	2.500%	2.94	100,000	99,469	99,925	2,926
FEDERAL NATL MTG ASSN	AA+	03/26/2021	2.700%	3.02	100,000	99,566	100,000	3,010
FEDERAL NATL MTG ASSN	AA+	10/19/2022	3.000%	3.36	50,000	49,706	50,000	1,669
US TREASURY NOTE	NR	07/31/2020	2.000%	2.92	20,000	19,738	19,797	576
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LOAN BKS CONS BDS	AA+	09/19/2022	3.170%	3.28	80,000	80,008	80,000	2,623
FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	09/27/2021 10/29/2021	3.000% 3.150%	3.04 3.17	100,000 100,000	100,051 100,022	100,000 100,000	3,043 3,169
US TREASURY NOTE	NR	11/30/2020	1.625%	2.80	100,000	97,698	97,686	2,731
US TREASURY NOTE	NR	09/15/2021	2.750%	2.80	80,000	79,833	79,756	2,235
CASH & EQUIVALENTS	-	-	-	2.14		121,080	121,080	2,591
Annual OPS and CAP Budget Reserve Total					\$	3,525,982 \$	3,588,776 \$	99,231
Capital Improvement Program Reserve								
APPLE INC SR FLT NT	AA+	02/07/2020	2.851%	2.93	100,000	100,121	99,821	2,934
CALIFORNIA ST GO BDS TAXABLE	AA-	10/01/2019	6.200%	2.74	100,000	102,779	104,087	2,817
CHEVRON CORPORATION SR NT	AA-	03/03/2019	4.950%	2.81	100,000	100,489	101,483	2,823
CISCO SYS INC SR GLBL NT EXXON MOBIL CORP SR FLT NT	A+	01/15/2020 03/15/2019	4.450% 2.484%	3.02	125,000 100,000	126,903	129,705 99,935	3,830
FEDERAL HOME LN MTG CORP PARTN GOLD	AA+ N.A.	02/01/2019	2.464%	2.90 2.77	1,751	100,003 1,760	1,846	2,901 49
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.77	340,000	338,504	343,278	9,387
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.82	100,000	96,908	100,876	2,737
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/06/2020	5.300%	3.05	450,000	464,765	474,098	14,152
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/03/2019	5.320%	2.88	50,000	50,973	51,857	1,468
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	2.86	60,000	60,016	61,683	1,717
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	06/24/2019 08/15/2019	1.520% 5.125%	2.62 2.80	250,000 60,000	248,528 61,000	250,000 62,144	6,521 1,705
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	4.625%	2.00	200,000	205,408	211,110	6,062
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/14/2018	3.750%	2.55	250,000	250,103	253,048	6,375
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.78	25,000	25,253	25,641	702
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	4.125%	2.79	125,000	126,753	130,679	3,534
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	2.80	700,000	711,634	725,659	19,954
FEDERAL NATL MTG ASSN FEDERAL NATL MTG ASSN	AA+	01/21/2020 06/22/2020	1.625% 1.500%	2.75 2.79	100,000 50,000	98,729 49,025	101,010 50,422	2,719 1,366
FEDERAL NATL MTG ASSN FEDERAL NATL MTG ASSN	AA+ AA+	11/30/2020	1.500%	2.79	170,000	49,025 165,589	50,422 169,564	4,686
FEDERAL NATL MTG ASSN	AA+ AA+	12/28/2020	1.875%	2.83	325,000	318,835	330,129	8,950
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.84	240,000	232,315	239,784	6,588
FEDERAL HOME LN MTG CORP MULTICLASS	NR	06/25/2020	3.531%	3.27	100,000	100,550	106,188	3,286
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	2.49	500,000	501,950	505,728	12,499
FEDERAL HOME LN MTG CORP FEDERAL HOME LN MTG CORP	AA+ AA+	05/30/2019 10/02/2019	1.750% 1.250%	2.63 2.69	50,000 50,000	49,798 49,380	50,212 50,130	1,309 1,330
FEDERAL HOME IN MIG CORP FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	2.680%	2.69	457,264	49,380 456,418	476,269	13,510
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							Esti	mated Annual
Broker/Dealer_ Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	\$ Yield Earnings
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	5.000%	2.80	1,946	2,012	2,052	56
FEDERAL NATL MTG ASSN GTD PASSTHRU MICROSOFT CORP NT	N.A. AAA	07/01/2019 06/01/2019	4.821% 4.200%	4.24 2.53	199,618 100,000	201,038 100,609	221,452 102,344	8,524 2,544
MONONA WIS TAXABLE PROM NTS 2015B	N.A.	06/01/2020	3.250%	3.20	100,000	100,000	100,618	3,198
MONTGOMERY CNTY MD CTFS PARTN COPS RICHMOND VA GO PUB IMPT BDS C	N.A. AA	11/01/2019 07/15/2021	1.200% 2.599%	2.91 3.43	100,000 100,000	98,377 98,872	100,019 103,510	2,867 3,389
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	3.35	100,000	98,164	101,724	3,284
GILEAD SCIENCES INC SR NT WISCONSIN ST GEN FD ANNUAL APP REV	A- AA-	09/01/2020 05/01/2021	2.550% 1.616%	3.28 2.97	100,000 100,000	98,662 96,598	102,154 100,080	3,239 2,869
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	3.13	225,000	222,345	232,331	6,959
WACO TEX INDPT SCH DIST REF BDS FEDERAL NATL MTG ASSN	N.A. AA+	02/15/2020 05/26/2021	4.000% 1.800%	2.91 2.99	165,000 260,000	166,779 252,260	171,536 260,000	4,848 7,538
FEDERAL HOME LN MTG CORP FEDERAL HOME LN MTG CORP	AA+	12/30/2019 12/30/2020	1.500% 1.750%	2.74 2.89	260,000	256,433 332,119	260,000	7,034
FEDERAL HOME IN MIG CORP FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	07/19/2020	2.030%	2.89	340,000 80,000	78,043	340,000 80,000	9,595 2,322
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LN MTG CORP MEDIUM	AA+ AA+	01/24/2022 07/27/2020	2.050% 1.625%	3.20 2.88	120,000 80,000	116,540 78,438	120,000 80,000	3,727 2,259
FEDERAL HOME LN MTG CORP	AA+ AA+	05/15/2020	1.600%	2.88	220,000	216,317	220,000	6,232
FEDERAL HOME LN MTG CORP FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	10/26/2021 04/27/2022	2.000% 2.300%	2.94 2.97	220,000 220,000	214,500 215,596	220,000 219,505	6,300 6,395
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.78	290,000	284,310	288,931	7,910
FEDERAL NATL MTG ASSN FEDERAL HOME LN MTG CORP	AA+ AA+	10/07/2021 01/13/2022	1.375% 2.375%	2.84 2.85	140,000 310,000	134,260 305,000	138,664 316,073	3,806 8,705
FEDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.86	610,000	594,415	608,482	16,971
FEDERAL HOME LOAN BKS CONS BDS FEDERAL NATL MTG ASSN	AA+ AA+	06/12/2020 05/06/2021	1.750% 1.250%	2.84 2.82	170,000 170,000	167,232 163,824	170,787 168,535	4,754 4,621
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.82	170,000	163,033	168,113	4,602
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	07/19/2022 08/03/2022	1.900% 1.900%	3.01 3.00	165,000 165,000	159,194 159,123	165,634 165,348	4,792 4,777
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.86	170,000	164,548	170,498	4,706
FEDERAL HOME LOAN BKS CONS BDS FEDERAL NATL MTG ASSN	AA+ AA+	08/15/2022 09/28/2020	1.850% 1.750%	2.97 2.84	130,000 120,000	125,042 117,646	130,836 120,000	3,717 3,345
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	3.15	220,000	213,921	220,000	6,734
FEDERAL HOME LN MTG CORP BANK AMER CORP FR	AA+ A	10/12/2021 05/13/2021	2.000% 5.000%	2.97 3.63	120,000 75,000	116,334 77,447	120,000 79,599	3,453 2,814
CONSTELLATION BRANDS INC SR GLBL NT	BBB-	11/06/2020	2.250%	3.55	25,000	24,345	24,942	863
HOME DEPOT INC SR GLBL NT LORILLARD TOB CO SR NT	A BBB	04/01/2021 05/01/2020	2.000% 6.875%	3.23 4.08	80,000 25,000	77,714 26,054	79,838 26,634	2,510 1,063
MORGAN STANLEY SR NT	A-	01/27/2020	2.650%	3.30	80,000	79,329	80,571	2,619
ORACLE CORP SR GLBL PHILIP MORRIS INTL INC SR NT	A+ A	05/15/2022 03/26/2020	2.500% 4.500%	3.43 3.24	80,000 25,000	77,495 25,377	80,069 25,918	2,656 821
STARBUCKS CORP SR GLBL	BBB+	02/04/2021	2.100%	3.36	80,000	77,881	79,979	2,620
3M CO FR FEDERAL HOME LN MTG CORP	A+ AA+	06/26/2022 12/29/2021	2.000% 2.250%	3.23 3.06	100,000 120,000	95,809 117,415	99,045 120,000	3,095 3,596
FEDERAL HOME LOAN BKS CONS BDS	AA+	10/26/2022	2.280%	3.06	100,000	97,357	99,600	2,980
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	09/11/2020 11/29/2021	1.620% 1.875%	2.91 2.83	400,000 300,000	391,648 291,519	395,347 296,489	11,393 8,241
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/15/2021	2.200%	3.07	300,000	294,366	298,050	9,025
FEDERAL NATL MTG ASSN FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	11/26/2019 05/17/2021	1.750% 1.970%	2.74 3.01	300,000 100,000	297,087 97,790	299,115 98,615	8,143 2,941
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/15/2020	2.500%	2.94	160,000	159,150	159,880	4,682
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	11/22/2021 09/01/2021	2.740% 2.750%	3.23 3.11	100,000 60,000	99,060 59,671	99,975 59,970	3,196 1,853
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/01/2020	2.450%	3.02	90,000	89,324	89,978	2,697
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	03/07/2022 09/20/2021	2.850% 2.840%	3.10 3.07	100,000 100,000	99,319 99,426	100,000 100,000	3,080 3,056
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	03/29/2021	2.710%	3.02	80,000	79,712	80,000	2,407
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LN MTG CORP	AA+ AA+	06/29/2022 12/14/2022	3.000% 2.000%	3.22 3.22	100,000 25,000	99,787 24,790	100,000 24,648	3,214 797
FEDERAL HOME LN MTG CORP	AA+	11/24/2021	2.650%	2.99	100,000	99,079	99,750	2,966
FEDERAL HOME LN MTG CORP FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	02/24/2023 12/13/2022	3.000% 2.130%	3.21 3.40	80,000 129,630	79,426 124,941	79,984 125,993	2,549 4,242
FEDERAL NATL MTG ASSN	AA+	03/26/2021	2.700%	3.02	100,000	99,566	100,000	3,010
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	08/16/2021 04/18/2022	1.680% 2.830%	3.08 3.18	100,000 150,000	96,798 149,154	97,005 150,000	2,980 4,739
FEDERAL HOME LN MTG CORP	AA+	03/15/2023	3.000%	3.20	150,000	148,668	149,850	4,760
FEDERAL HOME LOAN BKS CONS BDS FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	03/27/2023 07/27/2022	3.000% 1.700%	3.27 3.08	150,000 150,000	149,159 143,552	150,000 143,580	4,873 4,424
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/14/2021	2.810%	3.08	100,000	99,512	100,000	3,061
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	06/20/2022 06/28/2022	3.090% 3.060%	3.28 3.22	200,000 100,000	199,046 99,828	199,850 100,000	6,525 3,215
FEDERAL HOME LOAN BKS CONS BDS	AA+	05/02/2023	3.150%	3.29	200,000	198,864	199,650	6,551
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	09/19/2022 09/27/2021	3.170% 3.000%	3.28 3.04	160,000 120,000	160,016 120,061	160,000 120,000	5,245 3,651
FEDERAL HOME LN MTG CORP	AA+	06/28/2023	3.250%	3.34	160,000	160,038	159,920	5,340
FEDERAL NATL MTG ASSN FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	11/27/2020 10/29/2021	1.500% 3.150%	2.96 3.17	100,000 120,000	97,265 120,026	97,281 120,000	2,875 3,802
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/27/2022	3.230%	3.27	180,000	179,825	179,827	5,878
US TREASURY NOTE FEDERAL FARM CR BKS CONS SYSTEMWIDE	NR AA+	09/15/2021 09/19/2023	2.750% 3.200%	2.80 3.35	120,000 150,000	119,749 149,142	119,634 149,025	3,352 4,996
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	05/08/2023	3.440%	3.46	180,000	179,744	180,000	6,210
FEDERAL HOME LN MTG CORP CASH & EQUIVALENTS	AA+	09/27/2023	3.200%	3.33 2.14	150,000	149,745 453,120	149,400 453,120	4,991 9,697
Capital Improvement Program Reserve Total					\$	17,641,265 \$	17,977,742 \$	522,278
Stage 2 Capacity Reserve								
CISCO SYS INC SR GLBL NT FEDERAL HOME LN MTG CORP PARTN GOLD	A+ N.A.	01/15/2020 02/01/2019	4.450% 5.000%	3.02 2.77	75,000 1,751	76,142 1,760	77,823 1,846	2,298 49
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	11/01/2020	4.500%	3.12	7,499	7,639	7,818	238
FEDERAL HOME LOAN BKS CONS BDS FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	12/13/2019 02/18/2021	2.375% 1.375%	2.77 2.82	100,000 100,000	99,560 96,908	101,852 100,876	2,761 2,737
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	2.86	60,000	60,016	61,683	1,717
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	06/24/2019 08/15/2019	1.520%	2.62 2.80	200,000 50,000	198,822	200,000 51,787	5,217
FEDERAL HOME LOAN BKS CONS BDS FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	08/15/2019 07/01/2019	5.125% 4.375%	2.80 2.78	100,000	50,833 101,011	51,787 102,565	1,421 2,807
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	2.80	125,000	127,078	129,521	3,563
FEDERAL NATL MTG ASSN FEDERAL NATL MTG ASSN	AA+ AA+	01/21/2020 06/22/2020	1.625% 1.500%	2.75 2.79	100,000 100,000	98,729 98,050	101,010 100,844	2,719 2,732
FEDERAL NATL MTG ASSN FEDERAL NATL MTG ASSN	AA+	11/30/2020 12/28/2020	1.500% 1.875%	2.83 2.81	100,000	97,405	100,599	2,757
FEDERAL NATL MTG ASSN FEDERAL NATL MTG ASSN	AA+ AA+	02/26/2021	1.875% 1.375%	2.84	175,000 180,000	171,680 174,236	177,762 180,167	4,819 4,941
FEDERAL NATL MTG ASSN	AA+	01/14/2019	3.275%	2.53	100,000	100,099	100,860	2,530
FEDERAL HOME LN MTG CORP FEDERAL HOME LN MTG CORP	AA+ AA+	03/27/2019 05/30/2019	3.750% 1.750%	2.49 2.63	250,000 100,000	250,975 99,596	252,850 100,424	6,249 2,618
FEDERAL HOME LN MTG CORP FEDERAL HOME LN MTG CORP	AA+ AA+	08/01/2019 10/02/2019	1.250% 1.250%	2.67 2.69	100,000 100,000	99,064 98,760	100,442 100,260	2,646 2,660
	~~*	10/02/2019	1.230%	2.09	100,000	90,700	100,200	2,000

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roker/Dealer_ vestment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	– Cost	stimated Ann \$ Yie Earnin
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2020	4.000%	3.16	29,803	30,372	31,228	96
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	4.24	166,962	168,149	185,224	7,13
IPMORGAN CHASE & CO SR NT LANCASTER CNTY NEB SCH DIST NO SCH	A AA+	03/01/2021 01/15/2021	2.550% 4.550%	3.48 3.37	50,000 50,000	48,976 51,315	50,681 52,994	1,70
IORFOLK VA GO CAP IMPT BDS 2010 B	AA+ AA	03/01/2019	4.550%	3.24	100,000	100,519	101,330	3,26
JNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	-	50,000	49,719	49,856	
IONTGOMERY CNTY MD CTFS PARTN COPS	N.A.	11/01/2019	1.200%	2.91	100,000	98,377	100,019	2,8
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	3.35	150,000	147,246	152,586	4,9
SILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	3.28	150,000	147,993	153,231	4,8
VISCONSIN ST GEN FD ANNUAL APP REV EDERAL HOME LN MTG CORP	AA- AA+	05/01/2021 08/25/2021	1.616% 1.500%	2.97 3.05	100,000 90,000	96,598 87,389	100,080 90,000	2,8 2,6
IETRO WASTEWTR RECLAMATION DIS REV	AA+	04/01/2019	4.718%	2.77	100,000	100,610	101,809	2,0
VACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.91	55,000	55,593	57,179	1,6
EDERAL HOME LN MTG CORP	AA+	03/30/2021	1.500%	2.88	60,000	58,135	60,000	1,6
EDERAL HOME LN MTG CORP	AA+	09/30/2021	1.250%	3.62	100,000	97,477	99,900	3,5
EDERAL NATL MTG ASSN	AA+	09/30/2019 05/26/2021	1.250%	2.74	60,000	59,281	59,985	1,6
EDERAL NATL MTG ASSN EDERAL HOME LN MTG CORP	AA+ AA+	12/30/2020	1.800% 1.750%	2.99 2.89	60,000 100,000	58,214 97,682	60,000 100,000	1,7 2,8
EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.98	80,000	78,043	80,000	2,3
EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	3.20	60,000	58,270	60,000	1,8
EDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.88	40,000	39,219	40,000	1,1
EDERAL HOME LN MTG CORP	AA+	10/26/2021	2.000%	2.94	150,000	146,250	150,000	4,2
EDERAL HOME LOAN BKS CONS BDS	AA+	04/27/2022	2.300%	2.97	150,000	146,997	149,663	4,3
EDERAL HOME LN MTG CORP EDERAL NATL MTG ASSN	AA+ AA+	05/01/2020 10/07/2021	1.375% 1.375%	2.78 2.84	260,000 80,000	254,899 76,720	258,975 79,237	7,0 2,1
EDERAL HOME LN MTG CORP	AA+ AA+	01/13/2022	2.375%	2.85	120,000	118,064	122,351	2,1
EDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.86	220,000	214,379	219,563	6,1
EDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.84	260,000	255,767	261,204	7,2
EDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.82	260,000	250,554	257,760	7,0
EDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.82	260,000	249,345	257,115	7,0
EDERAL FARM CR BKS CONS SYSTEMWIDE EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	07/19/2022 08/03/2022	1.900% 1.900%	3.01 3.00	290,000	279,795 279,670	291,114	8,4 8,3
EDERAL FARM CR BKS CONS SYSTEMWIDE EDERAL NATL MTG ASSN	AA+ AA+	08/03/2022 04/05/2022	1.900% 1.875%	3.00 2.86	290,000 300,000	279,670 290,379	290,612 300,879	8,3 8,3
EDERAL HOME LOAN BKS CONS BDS	AA+ AA+	08/15/2022	1.850%	2.80	85,000	81,758	85,547	2,4
EDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.84	180,000	176,468	180,000	5,0
EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	3.15	280,000	272,264	280,000	8,5
EDERAL HOME LN MTG CORP	AA+	10/12/2021	2.000%	2.97	180,000	174,501	180,000	5,1
HOME DEPOT INC SR GLBL NT	A	04/01/2021	2.000%	3.23	60,000	58,286	59,879	1,8
DRACLE CORP SR GLBL	A+ A	05/15/2022 03/26/2020	2.500% 4.500%	3.43 3.24	120,000	116,243	120,103	3,9 1,8
PHILIP MORRIS INTL INC SR NT STARBUCKS CORP SR GLBL	BBB+	02/04/2021	2.100%	3.36	55,000 60,000	55,828 58,411	57,020 59,984	1,0
EDERAL HOME LN MTG CORP	AA+	12/29/2021	2.250%	3.06	80,000	78,277	80,000	2,3
EDERAL HOME LOAN BKS CONS BDS	AA+	11/29/2021	1.875%	2.83	120,000	116,608	118,596	3,2
EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	11/22/2021	2.740%	3.23	100,000	99,060	99,975	3,1
EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	03/07/2022	2.850%	3.10	80,000	79,455	80,000	2,4
EDERAL HOME LN MTG CORP	AA+	02/24/2023	3.000%	3.21	60,000	59,569	59,988	1,9
EDERAL NATL MTG ASSN EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	03/26/2021 04/18/2022	2.700% 2.830%	3.02 3.18	140,000 150,000	139,392 149,154	140,000 150,000	4,2 4,7
EDERAL HOME LN MTG CORP	AA+ AA+	03/15/2023	3.000%	3.20	150,000	148,668	149,850	4,7
EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/14/2021	2.810%	3.08	100,000	99,512	100,000	3,0
EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/20/2022	3.090%	3.28	100,000	99,523	99,925	3,2
EDERAL HOME LOAN BKS CONS BDS	AA+	06/28/2022	3.060%	3.22	100,000	99,828	100,000	3,2
EDERAL HOME LOAN BKS CONS BDS	AA+	05/02/2023	3.150%	3.29	150,000	149,148	149,738	4,9
EDERAL FARM CR BKS CONS SYSTEMWIDE EDERAL HOME LOAN BKS CONS BDS	AA+ AA+	09/19/2022 09/27/2021	3.170% 3.000%	3.28 3.04	200,000 160,000	200,020 160,082	200,000 160,000	6,5 4,8
EDERAL HOME LOAN BKS CONS BDS	AA+	08/10/2023	1.500%	4.01	200,000	192,854	192,000	7,7
JS TREASURY NOTE	NR	11/30/2020	1.625%	2.80	160,000	156,317	156,297	4,3
EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/27/2022	3.230%	3.27	200,000	199,806	200,000	6,5
EDERAL HOME LOAN BKS CONS BDS	AA+	04/30/2021	0.02	2.96	200,000	195,300	194,471	5,7
EDERAL HOME LOAN BKS CONS BDS	AA+	10/25/2021 10/28/2020	0.0317	3.18	200,000	200,026	200,000	6,3
EDERAL NATL MTG ASSN JS TREASURY NOTE	AA+ NR	09/15/2020	0.014 0.0275	2.94 2.80	40,000 60,000	38,948 59,875	38,709 59,817	1,1 1,6
EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	05/08/2023	0.0273	3.46	300,000	299,574	300,000	10,3
EDERAL HOME LN MTG CORP	AA+	09/27/2023	0.032	3.33	150,000	149,745	149,400	4,9
EDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	05/06/2022	0.0327	3.26	200,000	200,010	200,000	6,5
CASH & EQUIVALENTS	-	-	-	2.14		241,790	241,790	5,1
age 2 Capacity Reserve Total					\$	11,006,658 \$	11,218,648 \$	329,7
Subtotal, Bank of the West					\$	32,173,905 \$	32,785,166 \$	951,3
ink of New York (Trustee) 09 Reserve Account - Federal National Mortgage Assn 3136G3Q73	Aaa	7/26/2019	1.150%	1.16		4.733.586	4.780.000	54,9
09 Reserve Account - BMW BK North Amer Salt Lake 05580ACK8	Aa	7/24/2019	2.000%	2.01		149,107	150,000	2,9
09 Reserve Account - Morgan Stanley Treas Sec X9USDMORS			0.000%	2.05		161,769	161,769	3,3
09 Reserve Account - Morgan Stanley Treas Sec X9USDMORS		-	0.000%	2.05		62,656	62,656	1,2
09 Revenue FD Account - Morgan Stanley Treas Sec Portfolio X9USDMORS		-	0.000%	2.05		3,822	3,822	
09 Revenue FD Account - Morgan Stanley Treas Sec INST X9USDMORS 14 Revenue Account - Goldman FS Money MKT INST 474 X9USDGLD4		-	0.000% 0.000%	2.08 2.35		13	13 11	
14 Revenue Account - Goldman FS Money MKT INST 474 X90SDGLD4		-	0.000%	2.35		11 414	414	
14 Revenue Account - Cash		-	0.000%	-		11	11	
14 Interest Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	2.43		13	13	
14 Principal Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	2.37		7	7	
14 COI Account - Cash		-	0.000%	-		2	2	
15 Project Account - Cash 15 Project Account - IB Margan Brime MMI/T Inet X01/SD IBMD		-	0.000%	-		2	2	
15 Revenue Account - JP Morgan Prime MMKT Instl X9USDJPMP 15 Revenue Account - Cash		-	0.000% 0.000%	2.3		163 5	163 5	
15 Revenue Account - Cash 09 Escrow - United States Treasury 912828B33	Aaa	- 1/31/2019	0.000%	- 1.50		5 602,198	5 610,349	9,0
09 Escrow - United States Treasury 912020033	Aaa	7/16/2019	1.686%	1.70		40,070,825	40,944,692	681,2
09 Escrow - Cash		-	0.000%			3,857	3,857	
Subtotal, Bank of New York (Trustee) Less Amounts held in Escrow for 2009 Bond Defeasance					\$	45,788,463 \$ (40,676,880) \$	46,717,788 \$ (41,558,898) \$	752,8 (690,2
Less Amounts held in Escrow for 2009 Bond Defeasance Net Total, Bank of New York (Trustee)					<u>\$</u> \$	<u>(40,676,880)</u> \$ 5,111,583 \$	<u>(41,558,898)</u> \$ 5,158,889 \$	(690,2
ons Bank (Trustee)								
5 Treasury N/B 912828U99	Aaa	12/31/2018	1.250%	2.04	3,370,000	3,367,462	3,348,674	68,6
S Treasury Notes 912828B33	Aaa	1/31/2019	1.500%	2.07	1,500,000	1,498,007	1,492,411	31,0
Treasury Notes 912828B33	Aaa	1/31/2019	1.500%	2.06	11,600,000	11,584,584	11,542,000	238,6
S Treasury Notes 912828C24	Aaa	2/28/2019	1.500%	2.09	15,500,000	15,466,319	15,411,602	323,2
3 Treasury Notes 912828P95	Aaa Aaa	3/15/2019 4/30/2019	1.000%	2.11	10,300,000	10,258,913	10,186,941	216,4
Transury Natas 012020679		4/30/2019	1.250%	2.12	16,430,000	16,345,287	16,268,909	346,5
			1 1050/		12 550 000	13 /66 345	13 30/ 330	007 0
Treasury Notes 912828SX9	Aaa	5/31/2019	1.125%	2.14	13,550,000 3 900 000	13,456,315 3 899 310	13,384,330 3 833 557	
S Treasury Notes 912828ST8 5 Treasury Notes 912828SX9 yota Motor Credit Corp Comm Paper 89233HM35 yota Motor Credit Corp Comm Paper 89233HM43			1.125% 0.000% 0.000%		13,550,000 3,900,000 2,400,000	13,456,315 3,899,310 2,399,434	13,384,330 3,833,557 2,359,238	287,9 90,4 55,9

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									Esti	mated Annual
Broker/Dealer	Composite		Coupon	Yield to						\$ Yield
Investment Name	Credit	Maturity	Rate	Maturity	Par Value		Market Value	Cost		Earnings
CAMP Pool	NR			2.41			4,367,098	4,367,098		105,247
Total, Zions Bank (Trustee)						\$	88,930,406	\$ 88,494,761	\$	1,921,352
Uninvested Operating Cash		-					4,705,400	4,705,400		-
California Local Agency Investment Fund		LAIF	-	2.208		\$	708,783	\$ 708,783		15,650
Total Working Capital							5,414,182.92	 5,414,182.92		15,650
TOTAL CASH & INVESTMENTS, UNRESTRICTED AND WITH TRUSTEE						\$ И	131,630,077 /eighted Average	131,852,999 d to Maturity %	\$	2,950,902 2.24%
	Cummer on the la	weatmant Tru			Market Value	т				

Summary by Investment Type:	Market Value
US Treasuries	\$ 72,787,626
Agencies	31,589,162
Commercial Paper / Corporate Bonds	8,472,257
Municipal Bonds / Notes	1,895,454
Money Market / Certificates of Deposit	16,176,796
Local Agency Investment Fund	708,783
TOTAL	\$ 131,630,077
Summary by Purpose / Restriction Level	Market Value
Working Capital	\$ 5,414,183
Operations & Capital Budget Reserve	3,525,982
Capital Improvement Program Reserve	17,641,265
Stage 2 Capacity Reserve	11,006,658
Debt Reserve	5,111,583
Debt Proceeds	 88,930,406
TOTAL	\$ 131,630,077
Summary by Liquidity:	Market Value
0-1 years	\$ 105,153,846
1 years	7,918,052
2 years	8,723,862
3-5 years	9,834,317
TOTAL	\$ 131,630,077

SVCW has sufficient liquid resources available to meet expenditure requirements per SVCW's investment policy. All SVCW investments are in compliance with SVCW's investment Policy.

L 11/30/2018 M. Anderson

SILICON VALLEY GLEAN WATER

JOINT POWERS AUTHORITY ~ A PUBLIC ENTITY



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CITY OF SAN CARLOS | CITY OF REDWOOD CITY | CITY OF BELMONT | WEST BAY SANITARY DISTRICT

SILICON VALLEY CLEAN WATER INVESTMENT LISTING December 31, 2018

	December 31, 2018							
Broker/Dealer	Composite		Coupon	Yield to			Esti	imated Annual \$ Yield
Investment Name	Credit	Maturity	Rate	Maturity	Par Value	Market Value	Cost	Earnings
Annual OPS and CAP Budget Reserve		02/01/2020	E 0008/	2.02	46 760	16.024	17 600	E11
FEDERAL HOME LN MTG CORP PARTN GOLD FEDERAL HOME LOAN BKS CONS BDS	N.A. AA+	02/01/2020 12/13/2019	5.000% 2.375%	3.02 2.59	16,768 60,000	16,934 59,854	17,690 60,743	511 1,550
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.52	30,000	29,312	30,263	738
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.66	50,000	50,435	51,283	1,340
FEDERAL HOME LOAN BKS CONS BDS FEDERAL NATL MTG ASSN	AA+ AA+	09/13/2019 06/22/2020	4.500% 1.500%	2.68 2.53	100,000 30,000	101,246 29,566	103,311 30,191	2,710 749
FEDERAL NATL MTG ASSN	AA+ AA+	11/30/2020	1.500%	2.53	100,000	98,037	99,751	2,493
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.53	100,000	97,594	99,773	2,468
FEDERAL NATL MTG ASSN GTD REMIC	NR	09/25/2019	2.171%	2.48	123,158	122,379	124,775	3,039
FEDERAL NATL MTG ASSN FEDERAL HOME LN MTG CORP MULTICLASS	AA+ NR	09/25/2020 11/25/2019	1.750% 1.869%	2.70 3.09	100,000 111,504	98,605 110,568	100,475 111,348	2,659 3,414
FEDERAL HOME LIN MTG CORP	AA+	05/30/2019	1.750%	2.58	30,000	29,905	30,127	772
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.61	30,000	29,690	30,078	774
FEDERAL HOME LN MTG CORP MULTICLASS	N.A.	04/15/2020	4.000%	3.83	335	334	345	13
FEDERAL NATL MTG ASSN GTD PASSTHRU FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A. N.A.	12/01/2019 03/01/2020	5.500% 5.500%	3.09 4.32	6,854 167	6,873 167	7,248 173	212
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2020	5.000%	3.03	8,717	8,869	9,202	269
SMALL BUSINESS ADMIN GTD LN POOL	N.A.	02/25/2019	5.075%	-	3,333	3,314	3,459	-
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	2.74	50,000	49,778	49,856	1,363
MONTGOMERY CNTY MD CTFS PARTN COPS RICHMOND VA GO PUB IMPT BDS C	N.A. AA	11/01/2019 07/15/2021	1.200% 2.599%	2.76 2.80	100,000 100,000	98,589 99,784	100,019 103,510	2,720 2,797
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	2.79	100,000	99,670	103,258	2,776
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.84	110,000	111,257	114,357	3,154
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	2.82	80,000	79,108	80,000	2,228
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	07/19/2021 01/24/2022	2.030% 2.050%	2.90 3.12	60,000 40,000	59,105 39,278	60,000 40,000	1,716 1,225
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.64	80,000	78,838	80,000	2,078
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.67	150,000	148,101	150,000	3,956
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.54	70,000	68,919	69,781	1,749
FEDERAL NATL MTG ASSN FEDERAL HOME LN MTG CORP	AA+ AA+	10/07/2021 01/13/2022	1.375% 2.375%	2.50 2.50	70,000 35,000	67,923 34,861	69,352 35,870	1,695 873
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/29/2020	1.830%	2.60	140,000	138,429	140,769	3,605
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.61	140,000	138,404	140,487	3,615
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.52	90,000	87,423	89,251	2,207
FEDERAL NATL MTG ASSN FEDERAL NATL MTG ASSN	AA+ AA+	08/17/2021 09/28/2020	1.250% 1.750%	2.48 2.57	90,000 30,000	87,188 29,576	89,032 30,000	2,158 760
ALTRIA GROUP INC SR NT	BBB	08/09/2022	2.850%	4.06	30,000	28,799	30,230	1,168
US TREASURY NOTE	NR	03/15/2020	1.625%	2.56	50,000	49,447	49,813	1,265
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/11/2020	1.620%	2.88	140,000	137,775	138,371	3,971
FEDERAL HOME LN MTG CORP FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	03/26/2021 09/15/2020	2.700% 2.500%	2.91 2.89	50,000 100,000	50,002 99,953	49,938 99,925	1,455 2,886
FEDERAL NATL MTG ASSN	AA+ AA+	03/26/2021	2.700%	2.89	100,000	100,036	100,000	2,880
FEDERAL NATL MTG ASSN	AA+	10/19/2022	3.000%	3.28	50,000	50,005	50,000	1,639
US TREASURY NOTE	NR	07/31/2020	2.000%	2.92	20,000	19,839	19,797	579
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	09/19/2022 09/27/2021	3.170% 3.000%	3.22 3.00	80,000 100,000	80,206 100,312	80,000 100,000	2,584 3,005
FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	10/29/2021	3.150%	3.00	100,000	100,016	100,000	3,143
US TREASURY NOTE	NR	11/30/2020	1.625%	2.50	100,000	98,375	97,686	2,459
US TREASURY NOTE	NR	09/15/2021	2.750%	2.48	80,000	80,569	79,756	1,994
FEDERAL FARM CR BKS CONS SYSTEMWIDE CASH & EQUIVALENTS	AA+	12/05/2022	3.370%	3.32 2.27	60,000	60,110 79,663	60,000 79,663	1,996 1,808
Annual OPS and CAP Budget Reserve Total	-	-	-	2.21	\$	3,545,021 \$	3,590,953 \$	97,308
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Capital Improvement Program Reserve APPLE INC SR FLT NT	AA+	02/07/2020	2.851%	2.99	100,000	100,006	99,821	2,987
CALIFORNIA ST GO BDS TAXABLE	AA-	10/01/2019	6.200%	3.36	100,000	102,505	104,087	3,447
CHEVRON CORPORATION SR NT	AA	03/03/2019	4.950%	3.02	100,000	100,314	101,483	3,032
CISCO SYS INC SR GLBL NT	A+	01/15/2020	4.450%	2.79	125,000	126,940	129,705	3,544
EXXON MOBIL CORP SR FLT NT FEDERAL HOME LN MTG CORP PARTN GOLD	AA+ N.A.	03/15/2019 02/01/2019	2.938% 5.000%	3.19 2.91	100,000 613	100,000 616	99,935 646	3,190 18
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.59	340,000	339,174	342,193	8,785
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.52	100,000	97,707	100,876	2,459
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/06/2020	5.300%	2.89	450,000	465,507	474,098	13,458
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	09/03/2019 09/11/2020	5.320% 2.875%	2.79 2.57	50,000 60,000	50,914 60,328	51,857 61,683	1,420 1,553
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	2.55	250,000	248,783	250,000	6,334
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	2.66	60,000	60,910	62,144	1,621
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	4.625%	2.74	200,000	205,882	208,370	5,631
FEDERAL HOME LOAN BKS CONS BDS FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	07/01/2019 12/13/2019	4.375% 4.125%	2.66 2.66	25,000 125,000	25,218 126,731	25,641 128,795	670 3,372
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	2.62	700,000	712,614	725,659	18,699
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	2.59	100,000	99,015	101,010	2,560
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	2.53	50,000	49,276	50,318	1,248
FEDERAL NATL MTG ASSN FEDERAL NATL MTG ASSN	AA+ AA+	11/30/2020 12/28/2020	1.500% 1.875%	2.54 2.51	170,000 325,000	166,663 320,902	169,564 329,115	4,238 8,055
FEDERAL NATL MTG ASSN	AA+ AA+	02/26/2020	1.375%	2.51	240,000	234,226	239,818	5,924
FEDERAL HOME LN MTG CORP MULTICLASS	NR	06/25/2020	3.531%	3.07	100,000	100,517	106,188	3,089
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	2.43	500,000	501,555	505,728	12,193
FEDERAL HOME LN MTG CORP FEDERAL HOME LN MTG CORP	AA+ AA+	05/30/2019 10/02/2019	1.750% 1.250%	2.58 2.61	50,000	49,842	50,212 50,130	1,287
FEDERAL HOME IN MIG CORP FEDERAL NATL MTG ASSN GTD PASSTHRU	AA+ N.A.	04/01/2019	2.680%	3.05	50,000 456,391	49,484 455,469	50,130 475,360	1,291 13,892
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	5.000%	2.97	857	872	903	26
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	4.43	199,223	200,420	221,013	8,879
MICROSOFT CORP NT MONTGOMERY CNTY MD CTFS PARTN COPS	AAA	06/01/2019	4.200%	2.57 2.76	100,000	100,634	101,177	2,589
WONTOOWERT ON THIND CITS PARTIN COPS	N.A.	11/01/2019	1.200%	2.10	100,000	98,589	100,019	2,720

Broker/Dealer_ Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Est Cost	imated Annual \$ Yield Earnings
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.80	100,000	99,784	103,510	2,797
BANK NEW YORK MTN BK ENT FR GILEAD SCIENCES INC SR NT	A+ A-	11/27/2020 09/01/2020	2.450% 2.550%	3.04 2.94	100,000 100,000	98,837 99,191	101,724 102,154	3,007 2,913
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	2.83	100,000	97,184	100,080	2,749
PORT MORROW ORE TRANSMISSION F REV WACO TEX INDPT SCH DIST REF BDS	AA N.A.	09/01/2021 02/15/2020	2.737% 4.000%	2.79 2.84	225,000 165,000	224,258 166,886	232,331 171,536	6,246 4,731
FEDERAL NATL MTG ASSN	AA+ AA+	05/26/2021	1.800%	2.92 2.82	260,000	254,405	260,000	7,431 7,240
FEDERAL HOME LN MTG CORP FEDERAL HOME LN MTG CORP	AA+ AA+	12/30/2019 12/30/2020	1.500% 1.750%	2.82	260,000 340,000	257,101 334,339	260,000 340,000	9,485
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.90	80,000	78,806	80,000	2,289
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LN MTG CORP MEDIUM	AA+ AA+	01/24/2022 07/27/2020	2.050% 1.625%	3.12 2.64	120,000 80,000	117,834 78,838	120,000 80,000	3,674 2,078
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.67	220,000	217,215	220,000	5,802
FEDERAL HOME LN MTG CORP FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	10/26/2021 04/27/2022	2.000% 2.300%	2.85 2.62	220,000 220,000	216,636 218,073	220,000 219,505	6,178 5,705
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.54	290,000	285,522	288,954	7,247
FEDERAL NATL MTG ASSN FEDERAL HOME LN MTG CORP	AA+ AA+	10/07/2021 01/13/2022	1.375% 2.375%	2.50 2.50	140,000 310,000	135,846 308,766	138,703 316,073	3,391 7,732
FEDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.51	610,000	601,234	608,557	15,085
FEDERAL HOME LOAN BKS CONS BDS FEDERAL NATL MTG ASSN	AA+ AA+	06/12/2020 05/06/2021	1.750% 1.250%	2.61 2.52	170,000 170,000	168,062 165,133	170,592 168,585	4,390 4,168
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.48	170,000	164,688	168,171	4,076
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	07/19/2022 08/03/2022	1.900% 1.900%	2.67 2.66	165,000 165,000	160,837 160,766	165,634 165,348	4,291 4,273
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.51	170,000	166,658	170,498	4,190
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2022	1.850%	2.63	130,000	126,671	130,836	3,328
FEDERAL NATL MTG ASSN FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	09/28/2020 04/04/2022	1.750% 2.100%	2.57 3.07	120,000 220,000	118,306 216,427	120,000 220,000	3,042 6,633
FEDERAL HOME LN MTG CORP	AA+	10/12/2021	2.000%	2.88	120,000	117,494	120,000	3,379
BANK AMER CORP FR CONSTELLATION BRANDS INC SR GLBL NT	A BBB-	05/13/2021 11/06/2020	5.000% 2.250%	3.26 3.43	75,000 25,000	77,852 24,523	79,599 24,942	2,539 840
HOME DEPOT INC SR GLBL NT	А	04/01/2021	2.000%	2.85	80,000	78,419	79,838	2,234
LORILLARD TOB CO SR NT MORGAN STANLEY SR NT	BBB	05/01/2020	6.875% 2.650%	3.74 3.22	25,000 80,000	26,014 79,399	26,634 80,571	973 2,558
ORACLE CORP SR GLBL	A- A+	01/27/2020 05/15/2022	2.650%	3.22 3.17	80,000 80,000	79,399 78,282	80,571 80,069	2,558 2,478
PHILIP MORRIS INTL INC SR NT	A	03/26/2020	4.500%	3.13	25,000	25,425	25,918	797
STARBUCKS CORP SR GLBL 3M CO FR	BBB+ A+	02/04/2021 06/26/2022	2.100% 2.000%	3.21 3.00	80,000 100,000	78,034 96,664	79,979 99,067	2,507 2,904
FEDERAL HOME LN MTG CORP	AA+	12/29/2021	2.250%	2.98	120,000	118,720	120,000	3,533
FEDERAL HOME LOAN BKS CONS BDS FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	10/26/2022 09/11/2020	2.280% 1.620%	2.95 2.88	100,000 400,000	98,656 393,644	99,600 395,347	2,912 11,345
FEDERAL HOME LOAN BKS CONS BDS	AA+	11/29/2021	1.875%	2.49	300,000	294,708	296,489	7,329
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/15/2021	2.200%	2.98	300,000	297,579	298,050	8,871
FEDERAL NATL MTG ASSN FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	11/26/2019 05/17/2021	1.750% 1.970%	2.61 2.94	300,000 100,000	297,612 98,666	299,190 98,615	7,756 2,898
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/15/2020	2.500%	2.89	160,000	159,925	159,880	4,617
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	11/22/2021 09/01/2021	2.740% 2.750%	3.16 3.04	100,000 60,000	100,000 60,001	99,975 59,970	3,157 1,825
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/01/2020	2.450%	3.00	90,000	89,702	89,978	2,688
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	03/07/2022	2.850%	3.02	100,000	100,001	100,000	3,022
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	09/20/2021 03/29/2021	2.840% 2.710%	2.98 2.96	100,000 80,000	100,001 80,002	100,000 80,000	2,980 2,367
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/29/2022	3.000%	3.16	100,000	100,003	100,000	3,155
FEDERAL HOME LN MTG CORP FEDERAL HOME LN MTG CORP	AA+ AA+	12/14/2022 11/24/2021	2.250% 2.650%	3.12 2.92	25,000 100,000	24,958 100,005	24,656 99,750	779 2,922
FEDERAL HOME LN MTG CORP	AA+	02/24/2023	3.000%	3.14	80,000	80,016	79,984	2,513
FEDERAL HOME LOAN BKS CONS BDS FEDERAL NATL MTG ASSN	AA+ AA+	12/13/2022 03/26/2021	2.130% 2.700%	3.29 2.96	129,630 100,000	126,692 100,036	126,397 100,000	4,167 2,961
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	08/16/2021	1.680%	3.02	100,000	97,780	97,005	2,950
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LN MTG CORP	AA+	04/18/2022	2.830%	3.10	150,000	150,072	150,000	4,658
FEDERAL HOME LIN MIG CORP FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	03/15/2023 03/27/2023	3.000% 3.000%	3.13 3.20	150,000 150,000	150,032 150,069	149,850 150,000	4,693 4,795
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/27/2022	1.700%	2.99	150,000	145,287	143,580	4,341
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	06/14/2021 06/20/2022	2.810% 3.090%	3.02 3.22	100,000 200,000	100,002 200,004	100,000 199,850	3,018 6,442
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/28/2022	3.060%	3.16	100,000	100,146	100,000	3,168
FEDERAL HOME LOAN BKS CONS BDS FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	05/02/2023 09/19/2022	3.150% 3.170%	3.24 3.22	200,000 160,000	200,004 160,411	199,650 160,000	6,482 5,168
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/27/2021	3.000%	3.00	120,000	120,374	120,000	3,606
FEDERAL HOME LN MTG CORP	AA+	06/28/2023	3.250%	3.29	160,000	160,309	159,920	5,269
FEDERAL NATL MTG ASSN FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	11/27/2020 10/29/2021	1.500% 3.150%	2.92 3.14	100,000 120,000	97,931 120,019	97,395 120,000	2,856 3,771
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/27/2022	3.230%	3.23	180,000	180,130	179,827	5,820
US TREASURY NOTE FEDERAL FARM CR BKS CONS SYSTEMWIDE	NR AA+	09/15/2021 09/19/2023	2.750% 3.200%	2.48 3.25	120,000 150,000	120,853 150,002	119,634 149,025	2,991 4,881
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	05/08/2023	3.440%	3.43	180,000	180,032	180,000	6,179
FEDERAL HOME LN MTG CORP FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	09/27/2023 12/05/2022	3.200% 3.370%	3.27 3.32	150,000 250,000	150,339 250,458	149,400 250,000	4,912 8,315
CASH & EQUIVALENTS	-	-	-	2.27	-	691,265	691,265	15,692
Capital Improvement Program Reserve Total					\$	17,868,465 \$	18,101,237 \$	505,395
Stage 2 Capacity Reserve								
CISCO SYS INC SR GLBL NT FEDERAL HOME LN MTG CORP PARTN GOLD	A+ N.A.	01/15/2020 02/01/2019	4.450% 5.000%	2.79 2.91	75,000 613	76,164 616	77,823 646	2,126 18
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A. N.A.	11/01/2019	5.000% 4.500%	3.05	6,642	6,764	6,924	206
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.59	100,000	99,757	101,238	2,584
FEDERAL HOME LOAN BKS CONS BDS FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	02/18/2021 09/11/2020	1.375% 2.875%	2.52 2.57	100,000 60,000	97,707 60,328	100,876 61,683	2,459 1,553
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	2.55	200,000	199,026	200,000	5,067
FEDERAL HOME LOAN BKS CONS BDS FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	08/15/2019 07/01/2019	5.125% 4.375%	2.66 2.66	50,000 100,000	50,759 100,870	51,787 102,565	1,351 2,679
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	2.62	125,000	127,253	129,521	3,339
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	2.59	100,000	99,015	101,010	2,560
FEDERAL NATL MTG ASSN FEDERAL NATL MTG ASSN	AA+ AA+	06/22/2020 11/30/2020	1.500% 1.500%	2.53 2.54	100,000 100,000	98,552 98,037	100,635 100,599	2,496 2,493
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	2.51	175,000	172,793	177,216	4,337
FEDERAL NATL MTG ASSN FEDERAL NATL MTG ASSN	AA+ AA+	02/26/2021 01/14/2019	1.375% 3.275%	2.53 2.36	180,000 100,000	175,669 100,027	180,186 100,860	4,443 2,363
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	2.43	250,000	250,778	252,850	6,096
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.58	100,000	99,683	100,424	2,575
FEDERAL HOME LN MTG CORP FEDERAL HOME LN MTG CORP	AA+ AA+	08/01/2019 10/02/2019	1.250% 1.250%	2.63 2.61	100,000 100,000	99,168 98,967	100,442 100,260	2,604 2,581
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2020	4.000%	3.02	24,083	24,660	25,234	745
	N.A.	07/01/2019	4.821%	4.43	166,631	167,633	184,857	7,426
FEDERAL NATL MTG ASSN GTD PASSTHRU			2 5500/	3 33	50.000			1 507
	A AA+	03/01/2021 01/15/2021	2.550% 4.550%	3.22 3.21	50,000 50,000	49,295 51,420	50,681 52,994	1,587 1,649
FEDERAL NATL MTG ASSN GTD PASSTHRU JPMORGAN CHASE & CO SR NT LANCASTER CNTY NEB SCH DIST NO SCH NORFOLK VA GO CAP IMPT BDS 2010 B	A AA+ AA	03/01/2021 01/15/2021 03/01/2019	4.550% 4.650%	3.21 2.66	50,000 100,000	49,295 51,420 100,337	50,681 52,994 101,330	1,649 2,670
FEDERAL NATL MTG ASSN GTD PASSTHRU JPMORGAN CHASE & CO SR NT LANCASTER CNTY NEB SCH DIST NO SCH	A AA+	03/01/2021 01/15/2021	4.550%	3.21	50,000	49,295 51,420	50,681 52,994	1,649

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Broker/Dealer_	Composite		Coupon	Yield to			E	Estimated Annual \$ Yield
Investment Name GILEAD SCIENCES INC SR NT	Credit A-	Maturity 09/01/2020	Rate 2.550%	Maturity 2.94	Par Value 150,000	Market Value 148,787	Cost 153,231	Earnings 4,370
WISCONSIN ST GEN FD ANNUAL APP REV	A- AA-	05/01/2020	1.616%	2.83	100,000	97,184	100,080	2,749
FEDERAL HOME LN MTG CORP METRO WASTEWTR RECLAMATION DIS REV	AA+ AA+	08/25/2021 04/01/2019	1.500% 4.718%	2.99 2.72	90,000 100,000	88,322 100,459	90,000 101,809	2,638 2,733
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.72	55,000	55,629	57,179	1,577
FEDERAL HOME LN MTG CORP FEDERAL HOME LN MTG CORP	AA+ AA+	03/30/2021 09/30/2021	1.500% 1.250%	2.82 3.63	60,000 100,000	58,618 98,220	60,000 99,900	1,654 3,566
FEDERAL NATL MTG ASSN	AA+	09/30/2019	1.250%	2.86	60,000	59,384	59,985	1,700
FEDERAL NATL MTG ASSN FEDERAL HOME LN MTG CORP	AA+ AA+	05/26/2021 12/30/2020	1.800% 1.750%	2.92 2.84	60,000 100,000	58,709 98,335	60,000 100,000	1,715 2,790
FEDERAL FOME IN MIG CORF	AA+	07/19/2020	2.030%	2.04	80,000	78,806	80,000	2,790
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	3.12	60,000	58,917	60,000	1,837
FEDERAL HOME LN MTG CORP MEDIUM FEDERAL HOME LN MTG CORP	AA+ AA+	07/27/2020 10/26/2021	1.625% 2.000%	2.64 2.85	40,000 150,000	39,419 147,707	40,000 150,000	1,039 4,213
FEDERAL HOME LOAN BKS CONS BDS	AA+	04/27/2022	2.300%	2.62	150,000	148,686	149,663	3,890
FEDERAL HOME LN MTG CORP FEDERAL NATL MTG ASSN	AA+ AA+	05/01/2020 10/07/2021	1.375% 1.375%	2.54 2.50	260,000 80,000	255,986 77,626	258,975 79,259	6,497 1,938
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.50	120,000	119,522	122,351	2,993
FEDERAL NATL MTG ASSN FEDERAL HOME LOAN BKS CONS BDS	AA+ AA+	01/05/2022 06/12/2020	2.000% 1.750%	2.51 2.61	220,000 260,000	216,839 257,036	219,588 260,905	5,440 6,714
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.52	260,000	252,556	257,836	6,375
FEDERAL NATL MTG ASSN FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	08/17/2021 07/19/2022	1.250% 1.900%	2.48 2.67	260,000 290,000	251,875 282,683	257,203 291,114	6,234 7,542
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/03/2022	1.900%	2.66	290,000	282,559	290,612	7,510
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.51	300,000	294,102	300,879	7,394
FEDERAL HOME LOAN BKS CONS BDS FEDERAL NATL MTG ASSN	AA+ AA+	08/15/2022 09/28/2020	1.850% 1.750%	2.63 2.57	85,000 180,000	82,823 177,458	85,547 180,000	2,176 4,562
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	3.07	280,000	275,453	280,000	8,443
FEDERAL HOME LN MTG CORP HOME DEPOT INC SR GLBL NT	AA+ A	10/12/2021 04/01/2021	2.000% 2.000%	2.88 2.85	180,000 60,000	176,242 58,814	180,000 59,879	5,069 1,676
ORACLE CORP SR GLBL	A+	05/15/2022	2.500%	3.17	120,000	117,424	120,103	3,716
PHILIP MORRIS INTL INC SR NT STARBUCKS CORP SR GLBL	A BBB+	03/26/2020 02/04/2021	4.500% 2.100%	3.13 3.21	55,000 60,000	55,934 58,526	57,020 59,984	1,753 1,880
FEDERAL HOME LN MTG CORP	AA+	12/29/2021	2.100%	2.98	80,000	58,526 79,146	59,984 80,000	2,355
FEDERAL HOME LOAN BKS CONS BDS	AA+	11/29/2021	1.875%	2.49	120,000	117,883	118,596	2,932
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	11/22/2021 03/07/2022	2.740% 2.850%	3.16 3.02	100,000 80,000	100,000 80,001	99,975 80,000	3,157 2,418
FEDERAL HOME LN MTG CORP	AA+	02/24/2023	3.000%	3.14	60,000	60,012	59,988	1,885
FEDERAL NATL MTG ASSN FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	03/26/2021 04/18/2022	2.700% 2.830%	2.96 3.10	140,000 150,000	140,050 150,072	140,000 150,000	4,145 4,658
FEDERAL HOME LN MTG CORP	AA+	03/15/2023	3.000%	3.13	150,000	150,032	149,850	4,693
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	06/14/2021 06/20/2022	2.810% 3.090%	3.02 3.22	100,000 100,000	100,002 100,002	100,000 99,925	3,018 3,221
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/28/2022	3.060%	3.16	100,000	100,146	100,000	3,168
FEDERAL HOME LOAN BKS CONS BDS FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+ AA+	05/02/2023 09/19/2022	3.150% 3.170%	3.24 3.22	150,000 200,000	150,003 200,514	149,738 200,000	4,862 6,461
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/27/2021	3.000%	3.00	160,000	160,499	160,000	4,809
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/10/2023	1.500%	3.98	200,000	194,872	192,000	7,758
US TREASURY NOTE FEDERAL FARM CR BKS CONS SYSTEMWIDE	NR AA+	11/30/2020 09/27/2022	1.625% 3.230%	2.50 3.23	160,000 200,000	157,400 200,144	156,297 200,000	3,935 6,467
FEDERAL HOME LOAN BKS CONS BDS	AA+	04/30/2021	0.02	2.88	200,000	197,082	194,471	5,676
FEDERAL HOME LOAN BKS CONS BDS FEDERAL NATL MTG ASSN	AA+ AA+	10/25/2021 10/28/2020	0.0317 0.014	3.14 2.92	200,000 40,000	200,608 39,195	200,000 38,766	6,289 1,143
US TREASURY NOTE	NR	09/15/2021	0.0275	2.48	60,000	60,427	59,817	1,496
FEDERAL FARM CR BKS CONS SYSTEMWIDE FEDERAL HOME LN MTG CORP	AA+ AA+	05/08/2023 09/27/2023	0.0344 0.032	3.43 3.27	300,000 150,000	300,054 150,339	300,000 149,400	10,298 4,912
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	05/06/2022	0.0327	3.26	200,000	200,124	200,000	6,532
FEDERAL FARM CR BKS CONS SYSTEMWIDE CASH & EQUIVALENTS	AA+	12/05/2022	0.0337	3.32 2.27	100,000	100,183 163,627	100,000 163,627	3,326 3,714
Stage 2 Capacity Reserve Total	-	-	-	2.21		\$ 11,084,954		
Subtotal, Bank of the West					-	\$ 32,498,439	\$ 32,922,839 \$	919,302
Bank of New York (Trustee)								
2009 Reserve Account - Federal National Mortgage Assn 3136G3Q73	Aaa	7/26/2019	1.150%	1.16		4,741,139	4,780,000	54,997
2009 Reserve Account - BMW BK North Amer Salt Lake 05580ACK8 2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS	Aa	7/24/2019	2.000% 0.000%	2.01 2.20		149,248 162,144	150,000 161,769	3,000 3,567
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS	_	-	0.000%	2.20		62,656	62,656	1,378
2009 Revenue FD Account - Morgan Stanley Treas Sec Portfolio X9USDMOR 2009 Revenue FD Account - Morgan Stanley Treas Sec INST X9USDMORS	S	-	0.000% 0.000%	2.20 2.23		3,829 13	3,829 13	84 0
2014 Revenue Account - Goldman FS Money MKT INST 474 X9USDGLD4		-	0.000%	2.62		11	11	0
2014 Revenue Account - Goldman Sachs Fin Sq Instl X9USDGLD4 2014 Revenue Account - Cash		-	0.000% 0.000%	2.65		414 13	414 13	11
2014 Interest Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	2.66		13	13	- 0
2014 Principal Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	2.65		7	7	0
2014 COI Account - Cash 2015 Project Account - Cash		-	0.000% 0.000%	-		2	2	-
2015 Revenue Account - JP Morgan Prime MMKT Instl X9USDJPMP		-	0.000%	2.55		163	163	4
2015 Revenue Account - Cash 2009 Escrow - United States Treasury 912828B33	Aaa	- 1/31/2019	0.000% 1.500%	1.50		5 602.602	5 610,349	9,039
2009 Escrow - Tunisia Government Aid Bonds 066716AG6	Aaa	7/16/2019	1.686%	1.70		40,110,389	40,944,692	681,877
2009 Escrow - Cash Subtotal, Bank of New York (Trustee)		-	0.000%		-	3,857 \$ 45,836,508	3,857 \$ 46,717,796 \$	- 753.959
Less Amounts held in Escrew for 2009 Bond Defeasance Net Total, Bank of New York (Trustee)						\$ (40,716,849) \$ 5,119,659	\$ (41,558,898) \$	(690,916)
Zions Bank (Trustee)						.,,•	•, ••,•••	
US Treasury Notes 912828B33	Aaa	1/31/2019	1.500%	2.07	1,500,000	1,499,004	1,492,441	31,029
US Treasury Notes 912828B33 US Treasury Notes 912828C24	Aaa Aaa	1/31/2019 2/28/2019	1.500% 1.500%	2.06 2.09	11,600,000 15,500,000	11,592,298 15,477,820	11,542,000 15,411,602	238,801 323,486
US Treasury Notes 912828P95	Aaa	3/15/2019	1.000%	2.11	10,300,000	10,271,109	10,186,941	216,720
US Treasury Notes 912828ST8 US Treasury Notes 912828SX9	Aaa Aaa	4/30/2019 5/31/2019	1.250% 1.125%	2.12 2.14	16,430,000 13,550,000	16,362,604 13,473,781	16,268,909 13,384,330	346,887 288,339
Toronto Dominion Bank NY Cert Depos 89113XZJ6	P-1	3/9/2019	2.500%	2.50	6,300,000	6,290,587	6,300,000	157,265
CAMP Pool	NR			2.55		9,936,956	9,936,956	253,392
Total, Zions Bank (Trustee)					-	\$ 84,904,158	\$ 84,523,179 \$	5 1,855,921
Uninvested Operating Cash		-				5,376,609	5,376,609	-
California Local Agency Investment Fund		LAIF	-	2.291		\$ 708,783	\$ 708,783	16,238
Total Working Capital		LAIF	-	2.291	-	6,085,391.36	6,085,391.36	16,238
		LAIF	-	2.291	-	6,085,391.36 \$ 128,607,648	6,085,391.36	5 2,1

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Cost

Market Value

Dealer	Composite Coupon Yield to	
t Name	Credit Maturity Rate Maturity	Par Value
	Summary by Investment Type:	Market Value
	US Treasuries \$	69,492,166
	Agencies	31,883,902
	Commercial Paper / Corporate Bonds	2,181,782
	Municipal Bonds / Notes	1,801,679
	Money Market / Certificates of Deposit	22,539,336
	Local Agency Investment Fund	708,783
	TOTAL \$	128,607,648
	Operations & Capital Budget Reserve Capital Improvement Program Reserve Stage 2 Capacity Reserve	3,545,021 17,868,465 11,084,954
	Debt Reserve	5,119,659
	Debt Proceeds	84,904,158
	TOTAL	
	Summary by Liquidity:	Market Value
	0-1 years \$	102,628,073
	1 years	8,007,162
	2 years	8,553,818
	3-5 years	9,418,595
	TOTAL \$	128,607,648

SVCW has sufficient liquid resources available to meet expenditure requirements per SVCW's investment policy. All SVCW investments are in compliance with SVCW's Investment Policy.

12/31/2018 > M. Anderson

AGENDA ITEM 5D

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ENGINEERING REPORT: DECEMBER 2018 CAPITAL IMPROVEMENT PROGRAM IMPLEMENTATION

<u>DMF 6A/6B Project (9222)</u>: Complete the buildout of the Dual Media Filter system by installing two additional filters. Implement automation improvements.

The mechanical and instrumentation equipment for the DMF 6A/6B project has been installed, and initial programming of the filters has been completed to incorporate them into the system and put them into operation. The final task for this project will be to upgrade the programming for all of the filters to further automate the system and ensure permit compliance and recycled water quality.

<u>Planned Commission Actions:</u> Approve Automation Programming Task Order – January 2019

Pump Stations Rehabilitation and Replacement (9501): Rehabilitate or Replace three pump stations and connect them to the new Gravity Pipeline. This project also includes replacing the Belmont Force Main.

The RESCU Program includes rehabilitation or replacement of the Belmont, Redwood City, and Menlo Park Pump Stations, as well as the construction of the Belmont Force Main to connect the Belmont system to the Gravity Pipeline. Preliminary design work was completed by Brown and Caldwell. SVCW will deliver these projects as a combined Progressive Design Build Project, with Brown and Caldwell acting as Owner's Advisor. SVCW received Statements of Qualifications from four qualified Design Builders and shortlisted two. SVCW received Proposals and interviewed both shortlisted firms and is in negotiation with the firm that scored highest in the best-value evaluation process.

Planned Commission Actions: Award Design-Build Project – February 2019

Emergency Repair of the 12kV Vault (9808): Respond to emergency condition of existing main 12 kV service.

On September 14, 2017 the Commission approved the emergency expenditure of funds for the repair of essential facilities. On November 9, 2017 The Commission approved a total budget amount of \$2,347,412 which included the initial emergency authorization of \$300,000 to perform work on a time and material basis to resolve the failing 12kV electrical vault. Beecher Engineering, Power Engineering and DW Nicholson designed a permanent repair to reroute route the 12 kV conduits that supply power to the Solids Handling Building (SHB) and ultimately to all plant equipment and processes.

A new concrete vault was placed on the main structure side of the tunnel and is incorporated into the pile-supported tunnel structure. A new conduit run was constructed along the building to the new vault at the tunnel. Power Engineering

Report By: <u>K.H.</u>

5D-1

completed excavation under the SHB by the transformers and constructed a new duct bank structure under the transformers to connect the 12kV power lines to the new vault at the tunnel. The underground tunnel is pile supported and will offer the most stable pathway between the buildings to ensure the new conduits and vault will not subside in the future.

<u>Planned Commission Actions:</u> Accept Project and File Notice of Completion – February 2019

Front of Plant Project (9502): Using Progressive Design Build process, provide a surge shaft, receiving lift station, headworks with screening and grit removal, influent connector pipeline, and all required support facilities for a complete project.

On November 9, 2017 the Commission awarded a Progressive Design Build contract to Shea/Parsons Joint Venture (SPJV) for Stage 1 of the Front of Plant project. SPJV, SVCW staff, and consultants have met weekly to coordinate and discuss proposed designs, develop O/M options, and coordinate efforts between construction teams. While the designs were being developed, early construction packages have been authorized by the Commission to begin preparation work and order large equipment. The 60% design has been completed and a lump sum construction price has been negotiated with SPJV. The Stage 2D amendment includes the scope and budget to complete the construction of the project. It was approved at the December Commission Meeting

Planned Commission Actions: None anticipated

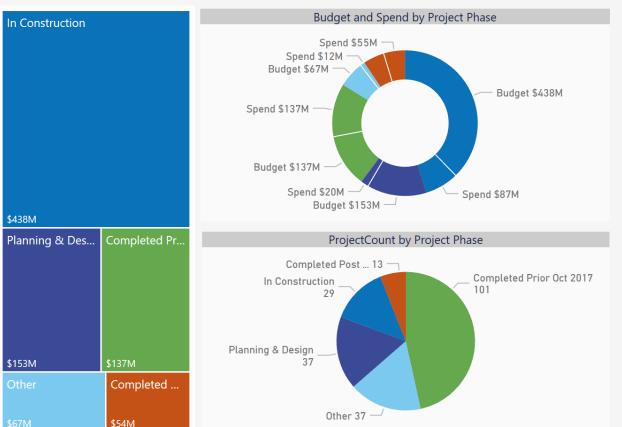
<u>Gravity Pipeline Project (6008)</u>: Replace existing 54" force main with a deep gravity pipeline using tunneling methods of construction and a progressive design build procurement process.

On November 8, 2018 the Commission approved the Stage 2B Design Build Amendment, with Barnard/Bessac Joint Venture (BBJV) to complete the design and construction for the gravity pipeline project. SVCW staff and consultants are managing the project and completing the effort to obtain the necessary permits and easements, assure that the requirements of the CEQA documents are being met, and assure that the project is being coordinated with the other RESCU projects.

Planned Commission Actions: None anticipated

CIP Spend Analysis

	Project Phase	Project Count	2018 CIP Budget	Actual Spend	Remaining	% Unspent
	Completed Prior Oct 2017	101	\$137,234,509	\$137,292,467	\$-57,958	-0.04%
	Completed Post Oct 2017	13	\$54,325,725	\$54,982,649	\$-656,924	-1.21%
	In Construction	29	\$438,155,720	\$87,396,554	\$350,759,166	80.05%
	Planning & Design	37	\$152,977,094	\$20,112,841	\$132,864,253	86.85%
	Other	37	\$66,873,374	\$11,579,240	\$55,294,134	82.68%
Total		217	\$849,566,422	\$311,363,750	\$538,202,671	63.35%





This report is a snapshot of CIP spending and displays the cost of projects as they evolve from un-initiated to completed. Within each phase, actual expenditures is compared to the 2017 CIP Budget Plan to arrive at dollars remaining.

"Planning/Design" budget values are not fully encumbered and therefore not meant for comparison to actual expenditures. Only upon completion of the planning and design phase will project budget and actual expenditures be recategorized to "In Construction" and a good measure of budget adherence.

"In Construction" dollar values reflect encumbrances (Budget) and expenditures (Actual Spent to date); comparing these numbers describes budget adherence.

"Other" phase includes projects that are administrative in nature (e.g. SRF loan expenses, Insurance, etc) and/or projects that have not been initiated.

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AGENDA ITEM 5E

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Silicon Valley Clean Water

Commissioners' Requested Action Items

Updated: 12/7/2018

JANUARY 28, 2019 AGENDA ITEM 5E

Commission		Action Item	Requested or Estimated Date		Status		Date of Completion	Notes
Meeting Date			for Completion	Ongoing	In Progress	Complete		
12/6/2018	1	Private property easements: keep Commission apprised if/when impasse during easement negotiations	2/18/2019	√				Pursue amenable terms regarding how to appropriately measure any settlement caused by tunneling activities.
11/8/2018	1	Draft Letter to County Manager for Commissioner Chair Signature	11/9/2018			√	11/8/2018	Letter related to intended use of existing 48-in Force Main after Gravity Pipeline is put into use.
10/11/2018	1	No new items at this meeting						
8/23/2018	1	Item 8B error in bid summary sheet; note in minutes	10/11/2018			√	10/3/2018	
7/12/2018	1	Provide interim financials for end of FY17-18	8/23/2018			√	8/11/2018	Interim financials provided; audited financials to be presented to Commission in October/November 2018
	2	Reschedule December meeting to late November or early December	8/23/2018			\checkmark	7/15/2018	December Commission meeting scheduled for December 6
	3	Prepare Commission member on-boarding package	first quarter 2019			\checkmark	1/11/2019	Binder provided to RWC Commissioner. Will be provided to others at January meeting.
6/28/2018	1	No new items at this meeting						
6/14/2018	1	8B - Front of Plant project, report back if allowance is used	N/A			~	12/6/2018	Report provided to Commission: Allowance for 40 additional piles or 1,530 extra length of piles. Of the allowance, an additional 76 feet of pile was used; this translates to \$5,890 used of the \$358,575 allowance.
	2	8C - Line of Credit; report back if proportion of use changes from JPA apportionment	N/A			\checkmark	6/15/2018	Confirmed that use is proportional to JPA apportionment; should use of the LOC proportionally change, report this to Commission.
	3	8E - JPA Amendment; re-initiate "clean up" to JPA	N/A		\checkmark			Make required and requested changes to the JPA a priority. Letter distributed to member agencies requesting input. Input received and Manager to schedule a meeting time with member agency staff to review.
5/10/2018	1	No new items at this meeting						
4/12/2018	1	Prepare letter Opposing AB1912	N/A			√	4/17/2018	Prepare for John Seybert signature. Include all Commission names and who they're representing.

Silicon Valley Clean Water Commissioners' Requested Action Items Updated: 12/7/2018

JANUARY 28, 2019 AGENDA ITEM 5E

Commission		Action Item	Requested or Estimated Date		Status		Date of Completion	Notes
Meeting Date			for Completion	Ongoing	In Progress	Complete		
	2	FY18-19 Operating Budget	1-2 weeks			\checkmark	5/2/2018	Send e-version, along with Benchmarking Chart of SVCW costs compared to other Bay Area WWTP costs, to Commissioners (Benchmarking Only), Member Agency Finance Directors and Tech Committee members.
	1	-	•				1	
3/8/2018	1	Reflect in LRFP how SVCW's procurement process and management strategies are saving costs	N/A			\checkmark	1/28/2019	In response to the fact that SVCW staff is implementing significant projects with relatively little overhead costs.
	2	Recycled Water Workshop in Stanford	April			\checkmark	4/12/2018	Reported highlights from the Recycled Water Workshop held at Stanford on March 9
	3	Operating Budget Benchmarking	April			\checkmark	4/12/2018	Benchmark SVCW's operating budget increase with other agencies in the Bay Area; reported out at April meeting.
	•	•	•				•	
1/18/2018	1	RESCU Program and Project Updates	N/A	\checkmark				When available, upload monthly dashboard summary reports onto website and email to Tech Cmte members.
	2	Gravity Pipeline Acquisitions	N/A		\checkmark			Report out on acquisition results when available.
			r		i	r	1	
> One Year	1	When SVCW can begin exporting power to grid, make public for positive public relations standpoint	N/A		\checkmark			The anticipated timeframe for SVCW to begin exporting power is late summer 2019. Public notice will be prepared and distributed.
	2	Project delay costs	N/A	\checkmark			Ongoing	Inform Commission of any potential delays that could add time and costs to projects they have authorized.
	3	Greendale property construction progress	2/28/2019		\checkmark			One item of work remains to complete; the Engineering Director is handling coordination with the contractor.A summary of costs was presented to the Commission at the October 2018 meeting.
	4	Connection Fees	NA		1			Additional plant capacity evaluation is underway to ensure proper flow numbers are used in the calculations. Will be incorporated into upcoming JPA changes.

AGENDA ITEM 5F

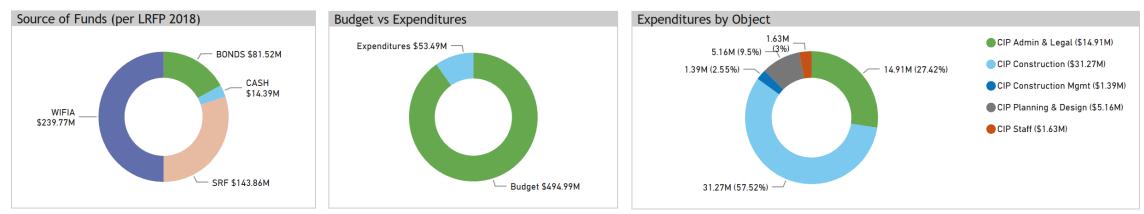
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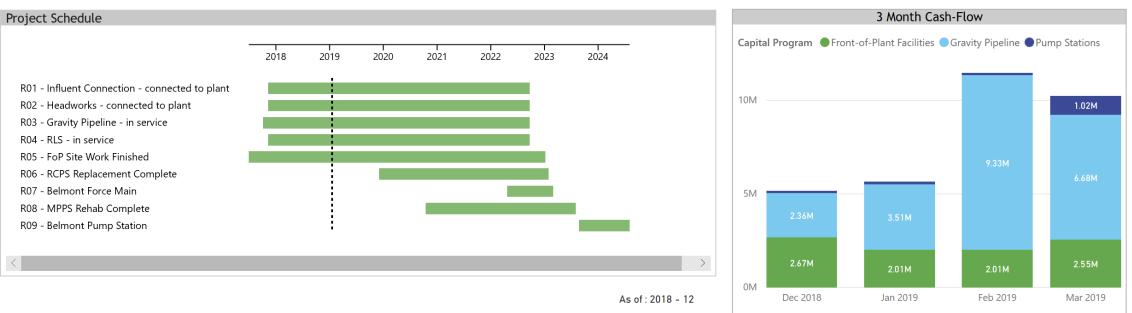
Overview



RESCU Program describes eleven projects which constitute full replacement and rehabilitation of SVCW's conveyance system. RESCU includes the Gravity Pipeline, Front of Plant, Pump Stations, and Belmont Force Main projects. The Front of Plant includes six and Pump Stations includes four of the eleven projects. The Conveyance System Improvements Environmental Impact Report completed and adopted by the SVCW Commission in April 2017 covers work to be done under all the RESCU Program projects.



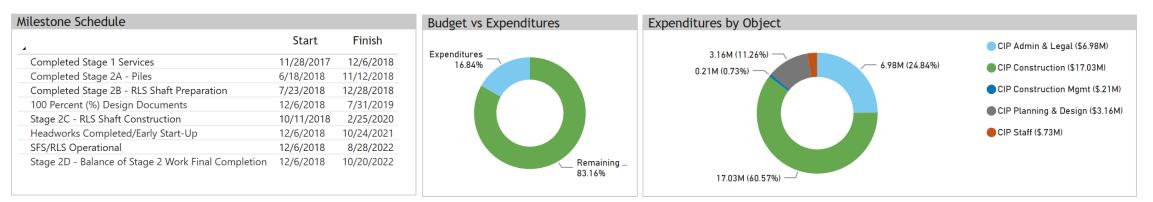




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Front of Plant Progressive DB Project

The Front of Plant (FoP) Project consists of the design, construction, permitting, start-up, commissioning, and final acceptance for the Receiving Lift Station (RLS), Surge and Flow Splitter (SFS), Headworks Facility, Odor Control Facilities, Influent Connector Pipe, Storage and Chemical Offload Facilities, Civil site work, Emergency Overflow pipe to storage basin and related process support systems. Work is being implemented under a Progressive Design-Build procurement process in stages.



Schedule

	Nov 2018 Dec 2018 Jan 2019 Feb 2019 Mar 2019 Apr 2019 May 2019 Jun 2019 Jul 2	019 Aug 2019 Sep 2019 Oct 2019 Nov 2019 De
GPS2.R1000 - Stage2B - Construct Working Platform for Shaft Work		
GPS2.R1010 - Stage2C - Prepare and Submit Submittals		
GPS2.R1020 - Stage2C - Review & Approve Submittals		
GPS2.R1030 - Stage2C - Procurement of Materials		
GPS2.R1040 - Stage2C - SFS & RLS Diaphram Wall Work		
GPS2.R1050 - Stage2C - RLS Barrettes Work		
GPS2.R1060 - Stage2C - Pre-Excavation Work		
GPS2.R1070 - Stage2C - Shaft Excavation Work		
GPS2.R1080 - Stage2C - Concrete Base Slabs		
GPS2.R1090 - Stage2B - Guidewall Installation - RLS Shaft & Barrettes		
GPS2.R1100 - Stage2B - Guidewall Installation - SFS Shaft		
GPS2.R1110 - Stage2B - Diaphragm Wall Mobilization & Setup		

 Available Budget
 Total Expenditure
 Remaining Budget

 \$137.81M
 \$27.90M
 \$109.90M





Front of Plant Progressive DB Project



Major Accomplishments this Period

	▼
Design	 SVCW provided follow-up responses to SPJV's resubmittal of the 60% design package. Continued design of instrumentation and controls for RLS control strategies. Completed second revision of all FoP control Narratives Completed Master Equipment List with naming convention_x000D_
Procurement of Trade Packages	 Owner advisors' completed the independent 60% cost estimate review of the Stage 2D package. SPJV finished negotiating their lump sum cost with SVCW for Stage 2D. SVCW updated the risk register for SRF/WIFIA fund requirements. Completed WIFIA certification letter for procurement.
Construction	- Continued the installation of guidewalls for the RLS and SFS - Completed mobilization of the diaphram wall equipment and site layout

Upcoming Key Activities

Continue detailing RLS and Headworks facilities Finalize equipment list with proposed manufacturers Complete the installation of the RLS and SFS Support of Excavation Walls

3 - Month Look Ahead

	▲ Start	End	January	February	March
Installation of RLS and SFS Support of Excavation Walls	November 12, 2018	March 17, 2019	Х	Х	х
Develop 100% Design Package	December 6, 2018	July 31, 2019	Х	Х	Х

Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0

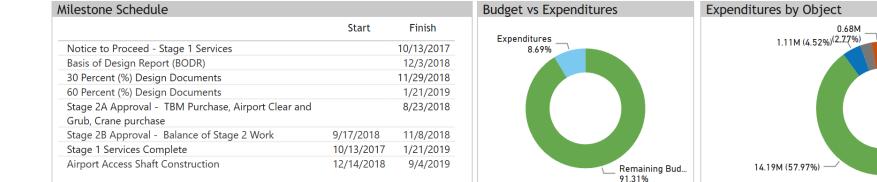
Gravity Pipeline Progressive DB Project

The Gravity Pipeline (GP) Project consists of the design, construction, permitting, start-up, commissioning, and closeout of approximately 17,600 feet of wastewater gravity FRP pipe inside a concrete-segment tunnel. The work includes three shafts and will interface directly with the Front of Plant (FoP) Project at the Surge & Flow Shaft (SFS). Work is being implemented under a Progressive Design-Build procurement process.



- 7.83M (31.98%)

0.68M



Schedule

Aug 2018 Sep 2018 Oct 2018 Nov 2018 Dec 2018 Jan 2019 Feb 2019 Mar 2019 Apr 2019 May 2019 Jun 2019 Jul 2019 Aug 2019 Sep 2019 Oct 2019 GPS2.A5630 - 100% Design Complete GPS2.A5640 - TBM ON SITE GPS2.A5650 - Manufacture & Deliver TBM (11.5 months) GPS2.A5660 - Manufacture Segment Moulds (6 months) GPS2.A5670 - AAA Site Prep GPS2.A5680 - AAA Shaft Construction GPS2.A5690 - AAS Inclined Conveyor Tunnel GPS2.A5700 - Lower-In/ Assemble/Prep for Launch

SVCW

CIP Admin & Legal (\$7.83M)

CIP Construction (\$14.19M)

CIP Construction Mgmt (\$1.11M)

CIP Planning & Design (\$.68M)

CIP Staff (\$.68M)

Gravity Pipeline Progressive DB Project



	\checkmark
Design	- Continued sediment transport modeling - Continued air flow and H2S concentration modeling. Coordinating with FoP DB team - Progressed Tunnel lining and Instrumentation & Monitoring design to 100% -Continued design of Bair Island and San Carlos shafts to 60%
Procurement of Trade Packages	- Selected Tunnel Segment supplier - Ongoing discussions with FRP pipe manufacturers - Outreach in conformance with SRF and WIFIA funding requirements
Construction	- Completed TBM Launch Site preparation - SOE subcontractor mobilized and began excavating slurry walls

Upcoming Key Activities

Airflow and grit transport design Airport Access shaft coordination with San Carlos Airport Inner Bair Island retrieval shaft design San Carlos Pump Station connection piping design Construction of Airport Access Shaft support of excavation Tunnel conveyor procurement

3 - Month Look Ahead

	Start	End	January	February	March
TBM Procurement	January 22, 2018	August 23, 2019	Х	Х	Х
Bair Island Shaft Design (100% Design)	August 8, 2018	January 29, 2019	Х		
Hydraulic Design (100% Design)	August 15, 2018	January 29, 2019	Х		
San Carlos Shaft Design (100% Design)	August 15, 2018	January 29, 2019	Х		
Conveyor and other tunneling equipment	November 8, 2018	August 5, 2019	Х	Х	Х
Airport Access Shaft Construction	December 14, 2018	August 5, 2019	Х	Х	Х

Category	Value
ost Time	0
lear Misses	0
Recorded Losses	0

Pump Stations



Remaining Budget

\$102.44M

All SVCW pump stations require replacement or rehabilitation. Menlo Park PS will be rehabilitated. Redwood City PS will be replaced. Belmont PS will be rehabilitated. San Carlos PS is no longer needed due to the new gravity pipeline; flows from San Carlos and Belmont will enter into the gravity pipeline via a drop structure at the current San Carlos pump station site. Flows from the MPPS and RCPS will flow through the new 48-inch force main to a drop structure at Inner Bair Island. This project also includes replacement of the Belmont Force Main and will be implemented via a Progressive Design-Build Process.



Available Budget

\$103.93M

Total Expenditure

\$1.49M

Pump Stations



	•	
esign	- Reviewed the DB firms' proposals - Received DB firms' indicative cost proposals	

Upcoming Key Activities

Select Design Buildier Issue NTP for Stage 1 Services Begin developing the Basis of Design Report for the project

3 - Month Look Ahead					
	Start	End	January	February	March
Select Design Builder	December 10, 2018	January 11, 2019	Х		
Hold D/B Interviews and Review Indicative Cost	January 9, 2019	January 10, 2019	Х		
Commision Approval to Award Contract	February 18, 2019	February 18, 2019		Х	
Stage 1 Notice of Award	February 18, 2019	February 18, 2019		Х	

Lost Time0Near Misses0
Near Misses 0
Recorded Losses 0

AGENDA ITEM 6A

SILICON VALLEY CLEAN WATER Memorandum

The following are the scheduled Commission Meeting dates for calendar year 2019. Regular Commission Meetings are held on the third Monday of each month at 8:00 a.m. Please review the dates below and be prepared to discuss any needed changes at the Commission meeting of January 28, 2019.

January 28, 2019 - Special
February 18, 2019
(Presidents' Day)
March 18, 2019
April 15, 2019
May 20, 2019
June 17, 2019
July 15, 2019
August 19, 2019
September 16, 2019
October 21, 2019
November 18, 2019
December 16, 2019

AGENDA ITEM 7A

MINUTES OF SILICON VALLEY CLEAN WATER SPECIAL MEETING – December 6, 2018 8:00 a.m.

<u>ITEM 1</u>

CALL TO ORDER

The meeting was called to order at 8:00 a.m.

<u>ITEM 2</u>

ROLL CALL - Commissioners Duly Appointed by Each Agency

Council Member John Seybert, Redwood City – Chair Council Member Warren Lieberman, PhD., Belmont– Vice Chair Mayor Robert Grassilli, San Carlos – Secretary Board Member George B. Otte, P.E., West Bay Sanitary District

Staff, Consultants and Visitors Present Teresa A. Herrera, SVCW Manager Christine C. Fitzgerald, SVCW Legal Counsel Jennifer Flick, Human Resources Manager Matt Anderson, SVCW Chief Financial Officer/Administration Manager Monte Hamamoto, SVCW Chief Operating Officer Kim Hackett, SVCW Authority Engineer Arvind Akela, SVCW Engineering Director Willian Bryan, SVCW Senior CIP Manager Jessica Mangual, SVCW Administrative Clerk EJ Shalaby, Senior Consultant, DNS Strategic Partners Derek Rampone, City of Redwood City Molly Flowerday, City of Redwood City Bill Tanner, Tanner Pacific, Inc. Mark Minkowski, Kennedy/Jenks Aren Hansen, Brown & Caldwell Sheldon Chavan, Chavan & Associates LLP David Ferrie, Cascade Integration & Development Philip Leung, 928 Governor's Bay Drive, Redwood City, CA Herman Young, 930 Governor's Bay Drive, Redwood City, CA Charlie Jovce, Brown & Caldwell Thomas Fluehr, Shea Parsons Joint Venture Bruce Burnworth, MPF Consulting

<u>ITEM 3</u>

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was recited by those in attendance.

ITEM 4 PUBLIC COMMENT

There were no public comments.

<u>ITEM 5</u>

SAFETY MOMENT AND REPORTS

Ms. Herrera discussed holiday tree safety.

Reporting on a previous Commission request regarding use of Front of Plant, Stage 2A allowance funds: the allowance covered 40 additional piles; no additional piles were needed.

A status on both SRF and WIFIA funding was provided; both program applications are in progress.

In appreciation for the outgoing Commissioners, Messrs. Seybert and Grassilli, two SVCW parking lots were named for them; the signs that will be placed were presented to the two outgoing Commissioners.

<u>ITEM 6</u>

MATTERS OF COMMISSION MEMBER'S INTEREST

Elect a new Commission Chair and new Secretary to be effective at January 2019 meeting. Nominate and vote for Warren Lieberman to the position of Commission Chairman

Motion/Second: Mr. Seybert / Mr. Grassilli

The Motion carried by Unanimous Roll Call Vote.

Nominate and vote for George Otte to the position of Commission Secretary

Motion/Second: Mr. Grassilli / Mr. Lieberman

The Motion carried by Unanimous Roll Call Vote

Note that 2019 meetings will be moved to third Mondays of each month.

<u>ITEM 7</u>

CONSIDERATION OF MOTION APPROVING CONSENT CALENDAR ITEMS 7A THROUGH 7F

Motion/Second: Mr. Lieberman / Mr. Otte

The Motion carried by Unanimous Roll Call Vote

<u>ITEM 8A</u>

The Commission was provided a written staff report with supporting documentation, as well as visual and oral background information on the public project and proposed real property acquisitions necessary for the project for Agenda Items 8A, 8B and 8C. Statutory requirements for adoption of Resolutions of Necessity under the laws of Eminent Domain were reviewed, including required findings and that proper notice of the Commission's public hearing was given to all of the property owners and that owners Young/Leung and Lau/Chang made written requests to appear and be heard at the hearing.

The public hearing for Agenda Item 8A was opened and the Commission received testimony from Mr. Herman Young who expressed his concerns regarding the impact of the project on his home and family. The Commission directed staff to provide the Chair's personal email to Mr. Young for his use, if needed.

Motion to close public hearing on Item 8A.

Motion/Second: Mr. Grassilli / Mr. Otte

The Motion carried by Unanimous Roll Call Vote

PUBLIC HEARING TO CONSIDER RESOLUTION OF NECESSITY AUTHORIZING EMINENT DOMAIN PROCEEDINGS FOR THE ACQUISITION OF A SUBSURFACE EASEMENT FROM PROPERTY LOCATED AT 930 GOVERNOR'S BAY DRIVE, REDWOOD CITY (APN 095-380-210) FOR THE GRAVITY PIPELINE PROJECT.

Move adoption of RESOLUTION OF THE COMMISSION OF SILICON VALLEY CLEAN WATER DECLARING THE NECESSITY FOR AND AUTHORIZING THE ACQUISITION OF CERTAIN INTERESTS IN REAL PROPERTY FOR THE REGIONAL ENVIRONMENTAL SEWER CONVEYANCE UPGRADE PROGRAM GRAVITY PIPELINE PROJECT (APN 095-380-210 YOUNG/LEUNG) (2/3^{rds} weighted vote count required).

Motion/Second: Mr. Grassilli / Mr. Otte

The Resolution carried by Unanimous Roll Call Vote

ITEM 8B

The background information and statutory requirements for adoption of Resolutions of Necessity under the laws of Eminent Domain provided prior to agenda item 8A is incorporated here by reference. Details on the second real property addressed in Agenda Item 8B was provided and the public hearing for this item was opened. The Commission recognized and received testimony from Mr. Philip Lau who concurred with the previous testimony of Mr. Young and requested soil settlement monitoring. The Commission noted

to Mr. Lau and Mr. Young that they should contact the SVCW Manager directly with any concerns they have.

Motion to close public hearing on Item 8B.

Motion/Second: Mr. Grassilli / Mr. Otte

The Motion carried by Unanimous Roll Call Vote

PUBLIC HEARING TO CONSIDER RESOLUTION OF NECESSITY AUTHORIZING EMINENT DOMAIN PROCEEDINGS FOR THE ACQUISITION OF A SUBSURFACE EASEMENT FROM PROPERTY LOCATED AT 928 GOVERNOR'S BAY DRIVE, REDWOOD CITY (APN 095-380-220) FOR THE GRAVITY PIPELINE PROJECT.

Move adoption of RESOLUTION OF THE COMMISSION OF SILICON VALLEY CLEAN WATER DECLARING THE NECESSITY FOR AND AUTHORIZING THE ACQUISITION OF CERTAIN INTERESTS IN REAL PROPERTY FOR THE REGIONAL ENVIRONMENTAL SEWER CONVEYANCE UPGRADE PROGRAM GRAVITY PIPELINE PROJECT (APN 095-380-220 LAU/CHANG) (2/3^{rds} weighted vote count required).

Motion/Second: Mr. Grassilli / Mr. Lieberman

The Resolution carried by Unanimous Roll Call Vote

ITEM 8C

The public hearing for this item was opened. There were no public speakers and a motion was made to close the public hearing.

Motion/Second: Mr. Otte / Mr. Lieberman

The Motion carried by Unanimous Roll Call Vote

PUBLIC HEARING TO CONSIDER RESOLUTION OF NECESSITY AUTHORIZING EMINENT DOMAIN PROCEEDINGS FOR THE ACQUISITION OF A SUBSURFACE EASEMENT FROM PROPERTY LOCATED WITHIN A COMMON AREA AND PRIVATE STREET ALONG GOVERNOR'S BAY DRIVE, REDWOOD CITY FOR THE GRAVITY PIPELINE PROJECT.

Move adoption of RESOLUTION OF THE COMMISSION OF SILICON VALLEY CLEAN WATER DECLARING THE NECESSITY FOR AND AUTHORIZING THE ACQUISITION OF CERTAIN INTERESTS IN REAL PROPERTY FOR THE REGIONAL ENVIRONMENTAL SEWER CONVEYANCE UPGRADE PROGRAM GRAVITY PIPELINE PROJECT LOT B, LOT F AND PORTION OF GOVERNOR'S BAY DRIVE HOA) (2/3^{rds} weighted vote count required).

Motion/Second: Mr. Lieberman / Mr. Otte

The Resolution carried by Unanimous Roll Call Vote

ITEM 8D

CONSIDERATION OF RESOLUTION APPROVING STAGE 2D AMENDMENT TO THE FRONT OF PLANT (FOP) DESIGN-BUILD AGREEMENT WITH SHEA PARSONS JOINT VENTURE (SPJC), APPROVE TASK ORDER FOR OWNER'S ENGINEERING ADVISOR SERVICES FOR BROWN & CALDWELL AND FREYER & LAURETA AND APPROVE A TASK ORDER FOR CONSTRUCTION QUALITY ASSURANCE SERVICES FOR TANNER PACIFIC ASSOCIATED WITH THE FRONT OF PLANT PROJECT (CIP #9502). APPROVE PROGRAM MANAGEMENT SERVICES FOR THE OVERALL RESCU PROGRAM (CIP # 6008, 9501 AND 9502)

A staff presentation was provided giving details of and rationale for each action and including a 3D model of the proposed Front of Plant project facilities.

- i. Move adoption of RESOLUTION APPROVING STAGE 2D AMENDMENT TO THE DESIGN-BUILD AGREEMENT FOR FRONT OF PLANT PROJECT (CIP #9502) AUTHORIZING EXECUTION OF STAGE 2D AMENDMENT AND AUTHORIZING MANAGER TO APPROVE CONTRACT CHANGE ORDERS AND ALLOWANCES UP TO TNE PERCENT (10%) OF THE CONTRACT PRICE AND SAID AMENDMENT – SHEA PARSONS JOINT VENTURE - \$93,904,235
- ii. Move approval of TASK ORDER SCOPE AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE FRONT OF PLANT PROJECT STAGE 2D (CIP #9502) IN AN AMOUNT NOT TO EXCEED \$3,200,000 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT (10%) CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – BROWN AND CALDWELL CONSULTANTS.
- iii. Move approval of TASK ORDER SCOPE AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE FRONT OF PLANT PROJECT STAGE 2D (CIP #9502) IN AN AMOUNT NOT TO EXCEED \$600,000 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT (10%) CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – FREYER AND LAURETA CONSULTANTS.
- iv. Move approval of TASK ORDER SCOPE AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE FRONT O PLANT PROJECT STAGE 2D (CIP #9502) IN AN AMOUNT NOTE TO EXCEED \$400,000 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT (10%) CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – BEECHER ENGINEERING CONSULTANTS.
- v. Move approval of TASK ORDER SCOPE AND BUDGET FOR CONSTRUCTION QUALITY ASSURANCE SERVICES FOR THE FRONT OF PLANT PROJECT STAGE 2D (CIP #9502) IN AN AMOUNT NOT TO EXCEED \$7,700,000 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT (10%)

CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – TANNER PACIFIC, INC.

vi. Move approval of TASK ORDER SCOPE AND BUDGET FOR PROGRAM MANAGEMENT SERVICES FOR RESCU PROGRAM (CIP #6008, 9501 AND 9502) IN AN AMOUNT NOT TO EXCEED \$5,716,650 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT (10%) CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – KENNEDY/JENKS CONSULTANTS.

A motion to approve Agenda Item 8D, Subitems i through vi was made.

Motion/Second: Mr. Otte / Mr. Lieberman

The Motion carried by Unanimous Roll Call Vote

ITEM 9 CLOSED SESSION

Closed Session was called to order at 9:14 a.m.

<u>ITEM 10</u>

RECONVENE FROM CLOSED SESSION

Open Session reconvened at 9:23 a.m.

Ms. Fitzgerald reported that as to Item 9A there was no reportable action taken and direction was given to Counsel. As to Item 9B, no reportable action was taken.

<u>ITEM 11</u> ADJOURN

There being no further business, the meeting adjourned at 9:24 a.m.

Minutes prepared by Teresa A. Herrera

George Otte, Secretary

AGENDA ITEM 7B

SVCW WARRANT REGISTER

SVCW Warrant Register dated November and December 2018 and January 2019, were scanned and a copy was emailed to Commissioners and Legal Counsel on January 23, 2019.

AGENDA ITEM 7C

CONSIDERATION TO REVISE ADMINISTRATIVE POLICY 2017-01, STATEMENT OF DEBT MANAGEMENT POLICY

<u>ISSUE</u>

Approve revisions to SVCW Administrative Policy 2017-01, Statement of Debt Management Policy

BACKGROUND

SVCW's Administrative Policy 2017-01, Debt Management Policy, establishes policies and procedures for the issuance and management of bonds, capital leases, and other forms of indebtedness, providing guidance to ensure for the issuance and management of the Authority's debt portfolio, with the goal of financing its capital improvement program in an equitable and low-cost way.

DISCUSSION

SVCW amends the Debt Management Policy to be consistent with changes in federal and state securities laws and pronouncements of the Securities and Exchange Commission. Amendments are also made to accommodate changes in strategies.

Proposed changes to the policy are attached and include:

- Grammatical and definition changes offered for clarity
- Language needed to accommodate anticipated participation in governmental loan programs such as the federal Water Infrastructure Finance and Innovation Act (WIFIA). Specifically, the language increases short-term debt limits if used for interim financing of projects.
- Recognition of new Government Code Section 5852.1 (Senate Bill 450), requiring agencies to disclose good faith estimates in a public meeting prior to authorization of issuance of bonds.

The SVCW Manager recommends approval of SVCW Administrative Policy 2017-01, Revision B, dated January 28, 2019.

FINANCIAL IMPACT

There are no direct financial impacts to this action.

RECOMMENDATION

Move adoption of RESOLUTION APPROVING AND ADOPTING REVISION B TO ADMINISTRATIVE POLICY 2017-01, STATEMENT OF DEBT MANAGEMENT POLICY

ADMINISTRATIVE POLICY NO. 2017-01

Approved by

Rev: \underline{AB}

Rev Date: <u>04/12/18</u> <u>01/28/2019</u>

Issue Date: 3/23/2017

Approved by Commission at Meeting of March 23, 2017 January 28, 2019 by Resolution No. SVCW 19-xx17-05

<u>SUBJECT:</u> Statement of Debt Management Policy

APPLICABLE CODES AND REGULATIONS:

Government Code Section 8855, Government Code 5852.1

PURPOSE:

This Debt Management Policy (the "Policy") establishes the comprehensive policies and procedures for the issuance and management of bonds, capital leases, and other forms of indebtedness ("Debt") of Silicon Valley Clean Water (the "Authority", or "SVCW") The purpose of the Policy is to identify Debt policy objectives, improve the quality of decision making processes, provide a basis for the determination of the appropriate structures, diversify SVCW's Debt portfolio, to the extent such is cost effective, to support its financial needs and to demonstrate a commitment to best practices in municipal debt management planning and execution.

This Policy provides guidelines for the issuance and management of the Authority's Debt portfolio. Adherence to the policy will help ensure that the Authority maintains a diversified Debt portfolio that supports its financing needs and minimizes the Authority's cost of funding.

The Commission of SVCW (the "Commission") may, in its sole discretion, approve Debt that deviates from this Policy, upon the recommendation of management. The failure of SVCW to comply with any provision of this Policy shall not affect the authorization or the validity or enforceability of any Debt that is otherwise issued in accordance with law. SVCW shall conduct an annual review and evaluation of this Policy. As appropriate, SVCW shall amend the Policy to be consistent with changes in the federal and state securities laws, pronouncements of the Securities and Exchange Commission and such other matters as the <u>Chief Financial Officer ("CFO"</u>) deems necessary or desirable.

The Authority's overarching goal in issuing Debt is to respond to, and provide for the funding of capital projects and other financing needs of the Authority's wastewater system while ensuring that Debt is issued and managed prudently. Additional Policy goals are to maintain appropriate Debt and debt service levels through collaborative long-term planning with the Member Agencies, as defined herein, and to maintain a sound fiscal position and protect the credit quality of SVCW.

The Authority believes that Debt can provide an equitable means of financing projects for customers of the Member Agencies and providing access to new capital needed for infrastructure and project needs. Debt will be used to meet financing needs if (i) it meets the goals of equitable treatment of all customers of the Member Agencies, respectively, both current and future; (ii) it provides for an effective means of paying for assets over their useful lives in lieu of paying for the assets over a much shorter period with cash and thereby avoiding sharp spikes in customers' rates; (iii) it is fiscally prudent, responsible, and diligent under the prevailing economic conditions; and (iv) if there are other important policy reasons therefor.

POLICY:

CREATION AND GOVERNING PRINCIPLES

In the issuance and management of Debt, the Authority shall comply with all legal constraints and conditions imposed by federal, state and local law. The following section highlights the key governing documents and certain Debt limitations.

GOVERNING LAWS

Joint Powers Act – The Authority is a Joint Exercise of Powers Authority (JPA) organized under the provisions of California law governing the joint exercise of powers, being Chapter 5, Division 7, Title 1 of the Government Code of the State of California. The JPA Act gives the Authority the right to contract, construct works, and to incur indebtedness. The Authority shall comply with all constraints of the JPA Act.

Governance - The Authority is a Joint Exercise of Powers Authority (JPA) created by and among the City of Belmont, the City of Redwood City, the City of San Carlos and West Bay Sanitary District (the "Member Agencies"), all of which are located in Silicon Valley between the cities of San Francisco and San Jose. SVCW is governed by a four-member Commission consisting of one appointed member from each of the Members Agencies' elected governing bodies. The Authority was created through an agreement by and among the Member Agencies (the "JPA Agreement") to provide wastewater transmission, treatment and effluent disposal for the Member Agencies and to own and operate the related wastewater facility and all appurtenances related thereto. The Authority shall comply with all constraints of the JPA Agreement.

Federal Tax Law – The Authority shall issue and manage Debt in accordance with the limitations and constraints imposed by federal tax law, to maximize its ability to sell tax-exempt debt. Such constraints include, but are not limited to, private activity tests, review of eligible projects, spend-down tests, and arbitrage rebate limitations.

Securities Law – The Authority shall comply with the requirements of federal and state securities laws in offering Authority Debt and the Authority shall comply with securities law requirements in providing ongoing disclosure to the securities markets.

ETHICAL STANDARDS GOVERNING CONDUCT

Member Agencies' representatives, management and Commissioners of the Authority, consultants, service providers, and underwriters to the Authority shall adhere to standards of conduct as stipulated by the California Political Reform Act, as applicable. All debt financing participants shall maintain the highest standards of professional conduct at all times, in accordance with MSRB Rules, including G-37. Additionally, all debt financing participants will assist Authority staff to achieve its goals and objectives as defined in this Policy; shall make cooperation with Authority staff its highest priority and shall take reasonable actions to avoid conflicts of interest and immediately advise SVCW of possible conflicts of interest.

PERMITTED DEBT BY TYPE

The Authority may legally issue both short-term and long-term Debt, subject to the limitations of this Policy, using the debt instruments described below. The CFO, in consultation with the SVCW Manager, Authority General Counsel, Bond Counsel, and Municipal Advisor shall determine the most appropriate instrument for a proposed Debt issuance.

JPA Revenue Bonds – SVCW shall issue Limited Obligation Bonds to make proceeds available to finance the acquisition, construction and/or improvement of SVCW's wastewater system. The obligations represent special limited obligations of SVCW which are payable solely from and secured solely by the Net Revenues (as such term is defined in the respective governing documents), pledged under the indenture <u>consisting primarily</u> of <u>payments made by</u> participating Member Agencies.

Lines of Credit - The Authority may enter into financing arrangements providing for interim cash liquidity through a source of funds that can be readily accessed by the Authority for capital needs. The period of a Line of Credit may not exceed five years from its issuance date. Commission action is sufficient to legally authorize the establishment of a line of credit.

Commercial Paper – SVCW may establish a commercial paper <u>program</u> ("Commercial Paper Program") for the purpose of providing funds to finance the acquisition, construction, and rehabilitation of capital improvements and the financing of vehicles and equipment. A Commercial Paper Program <u>willmay</u> be utilized and commercial paper <u>obligations notes</u> will be issued from time to time to provide financing for projects, subject to the conditions that the projects and project financing will have prior approval from the Commission. The Authority's commercial paper shall be secured by amounts payable by the Member Agencies to the Authority under a lease, installment sale agreement, or a contract of indebtedness. The CFO shall provide a written report to the Commission twelve months following the initial issuance of commercial paper <u>obligations notes</u> and annually thereafter so long as there is any commercial paper; and identifying any certificates of participation or other long term obligation refunding commercial paper_<u>obligations. notes</u>

Capital Leases – Capital equipment and personal property SVCW may be eligible for capital lease financing. Eligible equipment must have per unit cost of at least \$100,000 unless it is an integral part of a system (such as a computer network) then the aggregate of the various components must be at least \$100,000. The useful life of the asset will be in excess of five years and at least 120% of the financing and refinancing term.

Bond Anticipation Notes – SVCW may issue short-term indebtedness ("BANs") in anticipation of the issuance of revenue bonds. The BANs will have a final maturity not exceeding five years from the date of issuance.

Refunding Revenue Bonds – The Authority is authorized to issue refunding revenue bonds to refund outstanding Authority indebtedness pursuant to the State of California local agency refunding revenue bond law (Articles 10 and 11 of Chapter 3 of Part 1 of Division 2 of Title 5 of the Government Code of the State of California).

Loans – The Authority is authorized to enter into loans, installment payment obligations, or other similar funding structures secured by a prudent source, or sources of repayment. SVCW may enter into Loans with private financial institutions, or federal, state agencies.

Other Obligations - There may be special circumstances when other forms of financing are appropriately utilized by SVCW. SVCW will evaluate such proposed transactions on a case-by-case basis. Such other forms include, but are not limited to, grant anticipation notes and judgment or settlement obligation bonds.

LIMITATIONS ON DEBT ISSUANCE

The CFO shall determine whether proposed Debt transactions comply with the Debt limitations prescribed by the Policy. Proposed Debt transactions that meet the limitations of the Policy will be subject to approval by resolution of the Commission as prescribed by state law. In the event the CFO determines any proposed Debt transaction exceeds the limits imposed by this Policy, the Commission may approve such transaction by majority vote.

Senior Lien Long-Term Debt – The Authority's senior lien long-term Debt, for which revenues are pledged, shall be limited to that amount for which each participating Member Agency can generate wastewater revenues to the extent that (i) current year gross revenues sufficient to pay operations and maintenance costs and its allocable share of Authority Debt service and (ii) projected net revenues of each Member Agency are equal to 120% of the participating Member Agency's allocable share of Authority Debt service. The calculation of Debt service coverage shall include amounts on hand in the unencumbered funds. The Authority will work collaboratively with the Member Agency level that willto retain the strong credit ratings of the Authority's Debt.

Short-Term Debt – Short-term Debt with a term to maturity of less than five years is issued to 1) provide for funding for assets that are short-lived but due to cost are more equitable to finance or 2) provide financing for the acquisition and/or construction of long-lived capital projects to be refunded by long-term Debt financing described above. Due to the size of the current funding requirements of the capital improvement program, ("CIP"), short-term debt may represent an amount equal to 30% of its total Debt at the time of issuance. SVCW will periodically assess this limitation and based upon the CIP or rating agency standards management may recommend changes to this Policy. The calculation of short-term Debt shall include variable rate demand obligations, the authorized amount of commercial paper, any notes/bonds with a <u>final</u> maturity equal to or less than five years., and any variable rate Debt. <u>SVCW</u> may exclude the principal from the 30% limitation if the Authority intends to pay such principal from the proceeds of bonds, notes or other obligations of the Authority or moneys other than Net Revenues.

Subordinate Lien Long-Term Debt - The Authority's subordinate lien Debt, for which revenues are pledged, shall be limited to that amount for which current and projected net revenues of each participating Member Agency can generate overall Debt service coverage of at least 100 percent.

Variable Rate Debt – The Authority is authorized to issue variable rate Debt including, but not limited to, public market indexed notes, indexed notes or loans placed directly with financial institutions and other alternative variable rate and market access products as well as traditional variable rate demand obligations backed by bank liquidity facilities. Prior to the issuance of variable rate Debt, the savings and other possible advantages compared to a fixed rate borrowing will be evaluated and a comparative analysis presented to the Commission as part of the approval process. Based upon rating agency standards, the Authority's variable rate Debt shall not exceed 30 percent of its total Debt at the time of issuance of any variable rate Debt.

Capital Equipment Leases - The outstanding aggregate principal amount of capitalized lease agreements in connection with equipment may not exceed \$5,000,000; however, such amount shall increase by five percent each fiscal year starting with fiscal year 2016/17. SVCW will monitor the amount of capital equipment lease outstanding and maximum limitation to ensure sufficient borrowing capacity.

PURPOSE FOR BORROWING

The Authority shall issue long term Debt (such Debt that has a final maturity of more than five years from its date of issuance) solely for the purpose of financing the cost of design, acquisition, and/or construction of wastewater system improvements in furtherance of the Authority's Capital Improvement Program ("CIP") or for refunding existing Debt. The Authority will not issue Debt to fund operations. The Authority shall issue short-term Debt only as provided for in this Policy.

PROCEDURE:

PROCEDURE I. INTEGRATION OF CAPITAL PLANNING AND DEBT ACTIVITIES

Evaluating Capital Improvement Program Spending

The Authority shall develop and maintain a capital finance model to evaluate the impact of capital program spending, operations and maintenance costs, and Debt service on its financial condition. To that end, the CFO shall oversee the ongoing maintenance of quantitative modeling that includes, but is not limited to, the following:

- Historic and projected cash flows; including capital expenditures and operating costs;
- Historic and projected capital expenditures;
- Historic and projected operating costs;
- Historic and projected fund balances, including the Operating Fund, the Rate Stabilization Fund, (if any), Pay-As-You-Go Fund, Debt Proceeds Fund, and Debt Service Reserve Fund, if any,
- Historic and projected Debt service coverage;
- The most efficient mix of funding sources (long-term Debt; short-term Debt, and cash);
- Projected revenue requirements; and
- <u>Collaborative modeling with Member Agencies to establish Pprojected rates and charges.</u>

The following steps outline the Authority's approach to Debt management.

- The Authority will evaluate financing options annually as part of the update to the Long-Range Financial Plan capital project.
- The Authority will seek to pay for all capital projects from current revenues and available reserves prior to or in combination with the use of Debt.
- The Authority will issue Debt only in the case where there is an identified source of repayment. The Authority will work with its Member Agencies to reasonably demonstrate that (i) projected revenues are sufficient to pay for the forecasted operation and maintenance expenses and proposed Debt service together with all existing Debt service covered by such fixed revenues, or (ii) additional projected revenues have been identified as a source of repayment in an amount

sufficient to pay for forecasted operations and maintenance expenses and the proposed Debt.

- Debt issuance for a capital project will not be considered unless such issuance has been incorporated into the capital improvement plan and Long Range Financial Plan.
- Wastewater rates and charges will be set by each participating Member Agency at adequate levels, which are fair and nondiscriminatory, to generate sufficient revenues to pay all operating and maintenance costs, to maintain sufficient operating reserves, and to pay Debt service costs, if necessary.

PROCEDURE II. PROCUREMENT AND EVALUATION OF PROFESSIONAL SERVICES

Appointment of Service Providers – The CFO shall solicit from time to time bids, quotes or proposals, including sole source proposals, for the following services on an as needed basis:

- <u>Municipal Financial</u> Advisor Service provider that ensures the Authority complies with all financial management procedures and policies and ensures successful closing for bond transactions. While serving as the Authority's municipal advisor, a firm may not also engage in the underwriting of the Authority bond issue for which that firm acts as municipal advisor. A firm may not switch roles (i.e., from municipal advisor to underwriter) after a financial transaction has begun. SVCW may determine to utilize the services of independent financial municipal advisor(s) and feasibility consultant(s) ("MAFA") on Debt financing when prudent. SVCW shall utilize a request for qualifications and/or request for proposals ("RFP") to select a pool of such financial municipal advisors to mitigate time constraints and reduce overhead costs of SVCW in procuring such services. Services shall be documented by contract and compensation shall be capped. Every MFA shall be registered with the Municipal Securities Rulemaking Commission ("MSRB") and Securities and Exchange Commission ("SEC"). No municipal financial advisor shall serve as an underwriter on a transaction.
- Bond and Tax Counsel Service provider that drafts appropriate documentation to ensure successful and timely closing and create valid and legally binding security for bond issues, and provide appropriate advice and take appropriate actions to ensure legal validity of bond issues under state and federal laws as applicable. The CFO and General Counsel shall jointly select bond, tax and /or disclosure counsel ("Bond Counsel") for each transaction. SVCW General Counsel shall periodically review the performance of Bond Counsel with SVCW management in terms of quality and timeliness of legal services.
- Disclosure Counsel Service provider that drafts offering documentation in connection with the sale of debt to ensure compliance with all federal and state securities laws and regulations; provides appropriate legal opinions in connection with the offering documentation under state and federal laws as applicable. The CFO and General Counsel shall jointly select disclosure counsel ("Disclosure Counsel") for each transaction. SVCW General Counsel shall periodically review the performance of Disclosure Counsel with SVCW management in terms of quality and timeliness of legal services.

• Rebate Consultant – A Rebate Consultant shall be selected by RFP for all tax-exempt long-term obligations for a set term with 1-year extensions. Rebate analyses will be performed annually on the anniversary of the issuance, or as determined by SVCW, by the Rebate Consultant.

Nothing in this Policy shall prevent the Authority from using the same law firm from acting as both Bond and Disclosure Counsel.

PROCEDURE III. TRANSACTION-SPECIFIC ACTIVITIES

Method of Sale for Publically Offered Debt

Unless otherwise justified and deemed necessary to minimize the costs and risks of the Authority's bond issue, SVCW will proceed with the sale of Debt on a competitive basis.

Competitive Bid Method - Such bids may take the form of hand-delivered or electronically transmitted offers to purchase the Debt. Authority Debt issued on a competitive bid basis will be sold to the bidder proposing the lowest true interest cost to the Authority provided the bid conforms to the official notice of sale.

Negotiated Bid Method – A negotiated bond issue will provide for the sale of Debt by negotiating the terms and conditions of the sale, including price, interest rates, credit facilities, underwriter or remarketing fees, and commissions. Examples of such sales include:

- Variable rate demand obligations;
- Commercial paper;
- An issue of debt so large that the number of potential bidders would be too limited to provide the Authority with truly competitive bids;
- An issue requiring the ability to react quickly to sudden changes in interest rates (e.g. refunding bonds);
- An issue requiring intensive marketing efforts to establish investor acceptance;
- An issue of debt with specialized distribution requirements; and
- An issue of debt sold during a period of extreme market disruption or volatility.

Variable rate demand obligations, or commercial paper, would be expected to be issued by negotiated sale. SVCW shall retain a minimum of two broker/dealers or remarketing agents for each issuance of variable rate demand obligations, or commercial paper equal to or exceeding \$100 million. The broker/dealers or remarketing agents shall be retained for a period co-terminus with the final maturity of any variable rate bonds provided that SVCW may replace a broker/dealer or remarketing agent with notice at any time for any reason in its sole discretion.

Underwriters and Remarketing Agents shall be selected by SVCW through a request for proposal process for each transaction. The performance of Remarketing Agents shall be monitored on a monthly basis. SVCW may replace a remarketing agent or broker-dealer with notice at any time.

If bonds are sold on a negotiated basis, the negotiations of terms and conditions shall include, but not be limited to, prices, interest rates, underwriting or remarketing fees, and underwriting spreads. The Authority, with the assistance of its <u>Municipal Financial</u> Advisor, shall evaluate the terms offered by the

underwriter(s). Guidelines with respect to price, interest rates, fees, and underwriting spreads shall be based on prevailing terms and conditions in the marketplace for comparable issuers.

If more than one underwriter is included in the negotiated sale of debt, the Authority shall establish appropriate levels of liability, participation and priority of orders. Such levels shall be based upon Authority policy with regards to the underwriting responsibility among the team members (Authority Staff and Counsel, <u>Financial Municipal</u> Advisor and Bond and Disclosure Counsel), the desired allocation of total fees, and the desired distribution of bonds. Guidelines for establishing liability, participation, and priority of orders shall be based on prevailing terms and conditions in the marketplace for comparable issuers.

The Authority shall, with the assistance of <u>its_its_Municipal_Financial_</u>Advisor, oversee the bond allocation process. The bond allocation process shall be managed by the lead underwriter, with the following requirements:

- The bonds are allocated fairly among members of the underwriter(s), consistent with the previously negotiated terms and conditions;
- The allocation process complies with all MSRB regulations governing order priorities and allocations;
- The lead underwriter shall submit to the CFO a complete and timely account of all orders, allocations, and underwriting activities with the investor names identified as appropriate.

The CFO shall require a post-sale analysis and reporting for each negotiated bond sale. The lead underwriter shall perform such analysis. A post-sale analysis will include, but not be limited to:

- Summary of the pricing, including copies of the actual pricing wires;
- Results of comparable bond sales in the market at the time of the Authority's pricing;
- Detailed information on orders and allocation of bonds, by underwriting firm;
- Detailed information on final designations earned by each underwriter; and
- Summary of total compensation received by each underwriter.

Private Placements/Direct Loans - In the event the Authority chooses to proceed with a loan, or private placement of any form of Debt from a non-governmental entity, the Authority will issue a request for proposal seeking bids from responsible and credit-worthy financial institutions. The request for bids shall include a description of the project and terms and conditions of the financing in accordance with prudent financial and industry standards. The Authority may award the Debt solely based upon true-interest cost but may take into consideration call features, debt service structure and the requirement of any reserve fund requirements prior to making any award.

Structural Elements

Pledge of Revenues – The Authority's pledge of revenues shall be determined for each debt issue depending upon the debt instrument. Revenue Bonds of the Authority shall be repaid from revenues received from the Member Agencies, as defined in the governing documents related to the applicable revenue bonds.

Maturity – The Authority may issue tax-exempt debt with an average equal to 100% of the useful life of the assets, if warranted the Authority may issue tax-exempt debt with an average life greater than 100% of the average useful life of the assets, but only in compliance with federal tax code requirements and with the express approval of the Commission. The final maturity of the debt should be no longer than 40 years; however, the Commission may expressly approve a final maturity longer than 40 years upon the recommendation of management. Factors to be considered when determining the final maturity of debt include: the average useful life of the assets being financed, relative level of interest rates, intergenerational equity and the year-to-year differential in interest rates.

Maturity Structure – The Authority's long-term debt may include serial and term bonds. Other maturity structures may also be considered if they are consistent with prudent financial management practices.

Coupon Structure – Debt may include par, discount and premium <u>obligations</u>. Discount and premium bonds must be demonstrated to be advantageous relative to par bond structures taking into consideration market conditions and opportunities. For variable rate debt, the variable rate may be based on one of a number of commonly used interest rate indices and the index will be determined at the time of pricing.

Debt Service Structure – Debt service may be structured primarily on an approximate level (combined annual principal and interest) basis. Certain individual bond issues, such as refunding bonds, may have debt service that is not level. However, on an aggregate basis, <u>the Authority will strive to debt service should be</u> structure_d <u>debt primarily</u> on a level basis.

Redemption Features – In order to preserve flexibility and refunding opportunities, Authority Debt will generally be issued with call provisions. The Authority may consider calls that are shorter than traditional and/or non-call debt when warranted by market conditions and opportunities. For each transaction, the Authority will evaluate the efficiency of call provision alternatives.

Credit Enhancement – The Authority shall competitively procure credit enhancement for a sale of bonds if the CFO, in consultation with the <u>Municipal Financial</u> Advisor and the lead underwriter, determines that it is cost effective to do so.

Senior/Subordinate Lien – The Authority may utilize both a senior and a subordinate lien structure. The choice of lien will be determined based on such factors <u>as</u>, <u>including but not limited to</u>, <u>-as</u>-overall cost of debt, impact on debt service, impact on wastewater rates of the Member Agencies, and marketing considerations.

Debt Service Reserve Funds – The Authority shall provide a reserve fund as market conditions dictate. A reserve fund can be established to support each individual series of debt or as a common reserve that can support more than one debt issuances. The reserve fund is typically funded in its entirety with bond proceeds at the time of issuance but can also be funded through a letter of $C_{\underline{c}}$ redit or a Surety Policy.

Investment of Bond Proceeds - Bond proceeds will be invested in accordance with the permitted investment language outlined in the bond documents for each transaction. The District will seek to maximize investment earnings within the investment parameters set forth in each respective bond indenture. The reinvestment of bond proceeds will be incorporated into the evaluation of each financing decision; specifically addressing arbitrage/rebate position, and evaluating alternative debt structures and refunding savings on a "net" debt service basis, where appropriate.

PROCEDURE IV. COMMUNICATION AND DISCLOSURE

Rating Agencies

SVCW will secure underlying ratings on all <u>publically newly</u> issued obligations from at least one of the from the three major nationally recognized statistical rating organizations, provided it is economic to do so. Investor preference with respect to the number of ratings assigned to a bond issuance can vary depending upon market conditions and global economic conditions. In light of such, the CFO, with the assistance of the Municipal Advisor, will recommend the number of credit ratings at an appropriate time prior to the approval of any issuance by the Commission. The Authority shall maintain the credit ratings on its debt through prudent fiscal management and consistent communications with the rating analysts. The CFO shall manage relationships with the rating analysts assigned to the Authority's credit, using practical both informal and formal methods to disseminate information. Communication with the rating agencies may include one or more of the following:

- Full disclosure on an annual basis of the financial condition of the Authority through publically available documents;
- A formal presentation, as necessary to the rating agencies analysts, covering economic, financial, operational, and other issues that impact the Authority's credit;
- Timely disclosure of major financial events that impact the Authority's credit;
- Timely dissemination of the Comprehensive Annual Financial Report, following its acceptance by the Authority's Commission;
- Full and timely distribution of any documents pertaining to the sale of bonds; and
- Periodic tours of the <u>SRWRFWastewater Treatment Plant</u>, as appropriate.

Bond Insurers

The CFO shall manage relationships with the bond insurers, to the extent any Debt is so insured, by providing appropriate information. Communication with other bond insurers shall be undertaken when the CFO, with the assistance of the Authority's <u>Municipal Financial</u> Advisor, determines that credit enhancement is cost effective for a proposed bond issue.

Disclosure Reports – The Authority <u>shall-may</u> make disclosure reports readily available to institutional investors, rating agencies and credit enhancers who have specific analysts assigned to review the Authority's credit. SVCW shall comply with all federal securities disclosure laws and strive to maintain good investor relations through the timely dissemination of pertinent and material financial information. SVCW will covenant to provide annual disclosure report (the "Annual Report") no later than 270 days following the end of the fiscal year (currently March 31 based on the Authority's fiscal year end of June 30), but SVCW will strive to issue the Annual Report as soon as practical following any issuance of SVCW's annual Comprehensive Annual Financial Report ("CAFR"). The Annual Report, in addition to being posted in accordance with law, will also be posted at SVCW office of the CFO and be on file with the Treasurer. The Annual Report shall include CUSIPs, trustee and SVCW contacts, and applicable project status as required, for all transactions subject to annual reporting.

Website – The Authority shall use its website <u>and affiliated investor relation links</u> as a tool for providing timely information to investors.

PROCEDURE V. REFUNDING

The Authority shall strive to refinance Debt to maximize savings and minimize the cost of funds as market opportunities arise. A net present value analysis will be prepared that identifies the economic effects of any refunding to be proposed to the Commission. The Authority shall target a 3% net present value savings for Current Refunding transactions and 5% for Advanced Refunding transactions. A Current Refunding transaction is one which closes not more than ninety (90) days prior to the call date of the refunded Debt. An Advance Refunding transaction is one which closes more than (90) days prior to the call date of the call date of the refunded Debt. SVCW will use the refunding issue's arbitrage yield as the discount rate to calculate net present value savings.

Upon the advice of the CFO, with the assistance of the <u>Municipal Financial</u> Advisor and Bond Counsel, the Authority will consider undertaking refunding transactions for other than economic purposes, such as to restructure Debt, change the type of Debt instruments being used, or to retire a bond issue and indenture in order to remove undesirable, or onerous covenants; such refunding transactions do not need to achieve any net present value savings.

Savings Thresholds – Minimum savings thresholds have been established to help guide the economic analysis of refunding bonds. The minimum savings guidelines are applicable on an overall basis and are expressed as a percentage of refunded bond par calculated by dividing the expected net present value savings generated by the proposed refunding by the par amount of refunded bonds.

In completing a refunding for net present value savings the CFO with the advice of the <u>Municipal</u> Financial Advisor may take the following into consideration:

- **Coupon on Refunded Bond** The CFO may take into consideration whether the coupon on the refunded bond is significantly higher or lower than the most common outstanding bond coupons.
- Escrow Structuring The District shall <u>strive to</u> utilize the least costly securities available in structuring each escrow. A certificate will be required from a third party agent who is not acting as a broker-dealer, stating that the securities were purchased through an arms-length, competitive bid process (in the case of open market securities), that such securities were more cost effective than State and Local Government Series Securities (SLGS), and that the price paid was reasonable and within Federal guidelines. When evaluating the economic viability of an economic versus legal defeasance, the District shall take into consideration both the financial impact on a net present value basis as well as the rating/credit impact. The District shall take all necessary steps to optimize its escrows and to avoid negative arbitrage in its refunding transactions. SVCW will strive to achieve an escrow efficiency between 70% and 80%; the escrow efficiency is calculated by dividing the net present value savings by the sum of the net present value savings plus the negative arbitrage in the escrow.
- General Interest Rate Environment The CFO may take into consideration whether the available refunding bond interest rates are generally high or generally low relative to long-term averages of historical rates.
- General Interest Rate Outlook The CFO may take into consideration the general outlook for future interest rates, as derived from economic forecasts, market forecasts, implied forward rates, or other sources.
- **Debt Management Considerations** The CFO may take into consideration debt management issues such as cost and staff efficiencies associated with combining multiple refunding bond issues or combining refunding and new money bond issues.

- **Call Date** The CFO may take into consideration the amount of time between the pricing/closing date of the refunding Debt and the call date of the Debt to be refunded.
- **Final Maturity Date** The CFO may take into consideration the amount of time remaining until the final maturity of the Debt to be refunded.

PROCEDURE VI. REINVESTMENT OF PROCEEDS

General – The Authority shall comply with all applicable Federal, State, and contractual restrictions regarding the use and investment of bond proceeds. This includes compliance with restrictions on the types of investment securities allowed, restrictions on the allowable yield of some invested funds, as well as restrictions on the time period over which some bond proceeds may be invested. To the extent that a bond issue is credit enhanced, the Authority shall adhere to the investment guidelines of the credit enhancement provider.

Requirements of Indenture – The Authority will comply with all terms and conditions of the appropriate legal documents related to the Debt. Such limitations shall include, but not be limited to <u>Permitted</u> Investments in the indenture.

PROCEDURE VII. CREATION AND MAINTENANCE OF FUNDS

The Authority maintains a number of different funds integral to the long-range financial planning process. Each of these funds is held for a specific purpose and can generally be categorized as either an operating, capital or debt reserve fund. The Authority will comply with all requirements and limitations created under its Reserve Policy.

PROCEDURE VIII. COMPLIANCE

Arbitrage Liability Management

The Authority shall minimize the cost of arbitrage rebate and yield restrictions while strictly complying with tax law. Because of the complexity of arbitrage rebate regulations and the severity of non-compliance penalties, the Authority shall solicit the advice of Bond Counsel and other qualified experts about arbitrage rebate calculations. The Authority shall contract with a qualified third-party for preparation of the arbitrage rebate calculation.

The Authority shall maintain an internal system for tracking expenditure of bond proceeds and investment earnings. The expenditure of bond proceeds shall be tracked in the financial accounting system by issue. Investment may be pooled for financial accounting purposes and for investment purposes. When investment of bond proceeds are co-mingled with other investments, the Authority shall adhere to IRS rules on accounting allocations.

Post-Issuance Tax Compliance

The Authority shall comply with all federal tax code requirements and limitations to maintain the taxexempt status of Authority Debt obligations or to maintain eligibility for direct pay subsidy payments, as applicable.

Continuing Disclosure

The Authority shall comply with the requirements of each Continuing Disclosure Certificate entered into at the time of a sale of bonds. Annual information provided by the Authority shall mirror certain selected information in any Authority Official Statement at the time of a primary offering. Annual financial information will be sent by the Authority or its designated consultant, within nine months of the Authority's fiscal year end, to all Nationally Recognized Municipal Securities Information <u>RD</u>epositories (NRMSIRs) designated by the SEC and to the State Information Depository (SID), if one exists. This shall include:

- Audited Financial Statements; and
- Updated tables from the Official Statement, as detailed in the Continuing Disclosure Certificate.

In addition to annual disclosure, the Authority shall provide ongoing information about certain enumerated events, as defined by regulation, ("Material Events") to the NRMSIRs and to the SID.

The Authority shall engage a firm to assist it in ensuring timely completion and filing of annual reports and in identifying, and making timely filings with respect to, the occurrence of reportable enumerated events.

Legal Covenants

The Authority shall comply with all covenants and conditions contained in governing law and any legal documents entered into at the time of a bond offering.

PROCEDURE IX. DEBT DATABASE MANAGEMENT

The Authority shall maintain complete information on its outstanding Debt portfolio, in a spreadsheet or database program format. The information in the database shall include, but not be limited to, the following:

- Issue Name
- Initial Issue Par Amount
- Dated Date of the Issue
- Principal Maturity Amounts
- Coupon Rate by Maturity
- Amount Outstanding
- Call Provisions
- Purpose of the Issue
- Credit Enhancer, if any
- Competitive or Negotiated Sale
- Names of Underwriter(s) Members

The Authority shall use the Debt database for the following purposes:

- Generate reports
- Gross annual Debt service
- Net annual Debt service
- Refunding Analyses
- Output to Fund Accounting System

PROCEDURE X. MISCELLANEOUS RESPONSIBILITY:

Primary responsibility for Debt management rests with the CFO. The CFO shall:

- Provide for the issuance of Authority Debt at its lowest possible cost and risk;
- Determine the available Debt capacity of the Authority;
- Provide for the issuance of Authority Debt at appropriate intervals and in reasonable amounts as required to fund approved capital expenditures;
- Recommend to the Commission the method and manner of sale of Authority Debt;
- Monitor opportunities to refund Debt and recommend any such refunding as appropriate to reduce costs or to achieve other policy objectives;
- Comply with all Internal Revenue Service ("IRS"), Municipal Securities Rulemaking Board ("MSRB"), and Securities and Exchange Commission ("SEC") rules and regulations governing the issuance of Debt;
- Maintain a current database with all outstanding Debt;
- Provide for the timely payment of principal and interest on all Debt;
- Comply with all terms and conditions, and disclosure required by the legal documents governing the Debt issued;
- Submit to the Commission all recommendations to issue Debt in accordance with this Policy;
- Distribute to appropriate repositories information regarding the Authority's financial condition and affairs at such times and in the form required by law, regulation and general practice;
- Provide for the frequent distribution of pertinent information to the rating agencies; and
- Apply and promote prudent fiscal practices.

Internal Controls

In order to comply with the following internal controls, the CFO, SVCW Manager, and the Authority Chief Engineer shall share responsibility to assure that disbursements are made only after each request for disbursement is substantiated with appropriate invoices, requisitions and other supporting documentation. Each of the aforementioned shall thoroughly review any request for disbursement and may request further documentation as may be deemed appropriate.

• To ensure that proceeds of any Debt issued in accordance with its governing documents and this Policy, no disbursements shall be made without the written approval of the CFO and General

<u>SVCW</u> Manager. The draw request shall be provided to the Authority's Engineering Department by the Contractor. Approval shall only be provided when the CFO is in receipt of an appropriate certification from the construction project manager with supporting invoices from suppliers and / or contractors evidencing appropriate expenses in connection with the project.

• In the case of an issue of bonds, the proceeds of which will be used by a governmental entity other than the Authority, the Authority may rely upon a certification by such other governmental entity that it has adopted the policies described in SB 1029.

The Authority shall also comply with Government Code Section 5852.1 (SB 450) by disclosing specified good faith estimates in a public meeting prior to the authorization of the issuance of bonds.

Approval by the Commission

All long-term and short-term financing transactions shall be approved by resolution of the Commission.

- Revenue Bonds: All issuances of special limited obligation revenue bonds shall be authorized by resolution of the Commission.
- Capital Leases: All capital leases financing capital equipment with a term exceeding five years and requiring anticipated expenditures by SVCW exceeding \$100,000 shall be authorized by resolution or ordinance of the Commission by majority vote.
- Refunding Obligations: The Commission is authorized to provide for the issuance of Debt for the purpose of refunding any limited obligation bond.

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AGENDA ITEM 7D

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RATIFICATION OF APPOINTMENT OF SECRETARY PRO-TEM

<u>ISSUE</u>

Approval of Appointment of a Secretary Pro Tem to Replace Previous Secretary Pro Tem

BACKGROUND AND DISCUSSION

Since 2005, SVCW has appointed a Secretary Pro Tem to ensure Authority business can continue if there is an absence of the Secretary of the Commission. Such instances could arise when certain documents need to be formally attested to meet time requirements.

The current position of Secretary Pro Tem is vacant due to the resignation of the previously appointed individual, Ms. Ilana Schmidt. A Secretary Pro Tem is needed to be named due to this vacancy.

The SVCW Manager recommends that Jessica Mangual be appointed to the position of Secretary Pro Tem. Ms. Mangual assists the Manager with preparation of all Commission-related items and is well suited and positioned to take this responsibility. Resolution No. SVCW 17-69 appointed Ms. Schmidt Secretary Pro Tem and will be rescinded and replaced with Resolution No. SVCW 19-02 as a result of this action.

FINANCIAL IMPACT

There is little to no financial impact from this action. There could be minor cost savings by providing for timely attestation of critical documents and/or from cancelling the need to drive certain documents for Commission Secretary's signature.

RECOMMENDATION

Move adoption of RESOLUTION APPROVING AND RATIFYING APPOINTMENT OF JESSICA MANGUAL AS SECRETARY PRO TEM OF SILICON VALLEY CLEAN WATER AND RESCINDING RESOLUTION NO. SVCW 17-69

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AGENDA ITEM 8A

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SCADA SOFTWARE UPDATES (CAPITAL PROJECT 293) DUAL MEDIA FILTERS AUTOMATION (CIP #9222) AND COMPLETION OF AUTOMATION PROGRAMMING SERVICES

<u>ISSUE</u>

Authorization of Task Orders for SCADA Software Improvements and Automation programming services (Capital Project #293 and CIP Project #9222).

BACKGROUND

The computers that SVCW Operators use to view treatment process parameters, make changes to process set points, and view alarms are called Human Machine Interfaces (HMIs). Software run on these HMIs is called SCADA software. In 2013, SVCW implemented a project to upgrade the SCADA software from a program called iFix to a program called Wonderware. Wonderware is the most commonly used HMI software in the wastewater industry and provides significantly more features than the old and outdated iFix software. Recently, Wonderware has developed a significant upgrade to the software that would allow for more efficiency and more flexibility with its use of the program.

SVCW's filtration process filters secondary effluent, removing very small solids from the flow stream in advance of 1) discharge to San Francisco Bay or 2) disinfection and recycled water production. Each filter has two bays, called the "A Side" and the "B Side". SVCW is required to filter all flow that is discharged to the Bay under the Authority's NPDES permit and recycled water production requires all flow to be filtered prior to disinfection and distribution under Title 22 Water Recycling Criteria.

As the filters run, they accumulate solids. When they are full of solids, they need to be taken out of service and put into backwash mode. Currently, the majority of the filters are programmed to automatically backwash after 100 hours of run time. During the season that SVCW is producing recycled water, regulatory guidelines place a strict limit on the turbidity of the water. The filters that are in recycled water production mode get automatically shut down if the turbidity leaving the filters reaches 1.8 NTU; this is a failsafe measure to ensure permit compliance. Because it's critical to keep the filters in operation (not hit the failsafe shut off mode), Operators visually monitor the turbidity levels and manually initiate a backwash when it appears that a recycled water filter will be reaching 1.8 NTU.

In 2015, the SVCW Commission authorized a project to add capacity to the filters; to this end, Filters 6A and 6B were added to the filtration system. At the time, SVCW staff identified the opportunity to improve the automation programming for the filters. Initiating backwashes based on filter run time leads to inefficient operation and too-frequent backwashes, thus using more electricity and polymer than otherwise required. Solids contents in wastewater is variable and the operators set the runtime for the filters to a conservatively low number to avoid filter plugging or breakthrough of solids. A better way to control backwashes is to base it on differential pressure across the filter or effluent turbidity rather than on run time. During the progress of work, the two new filters

6A and 6B were programmed to be able to be backwashed based on these parameters but the old filters' programming was not changed. Part of the reason for not changing the other filters' programming at that time was to ensure that the new method of operation via automated backwashes was reliable enough to meet permit limits.

DISCUSSION

For the past eight years, SVCW has used the professional services of a firm, Cascade Integration & Development (CID), for programming and system integration across the entire treatment facility. SVCW Engineering and O&M staff have negotiated a scope and budget for CID to upgrade the Wonderware software and to develop and implement the new automated backwash program for the remaining filters.

Upgrading the SCADA software will allow SVCW to use all of the most recent functionality that has been included by the software developer. This will provide improvements in data storage and retrieval, simplification of programming thus reducing programming time, and advanced viewing applications. Included in the latest version of Wonderware is the ability for it to be used on mobile devices and tablets, which has been a goal for SVCW operations to be able to see system data while they are walking around the plant and away from the Control Room.

The SCADA software upgrade scope of work for CID also includes configuring and installing a system that will analyze and prioritize the various alarms that are generated by SCADA. It will identify "nuisance" alarms that occur and clog up the alarm system and distract the operators from their duties. Currently, Operators can see up to 1,000 alarms per day and many are nuisance alarms. This not only distracts the operators from the serious alarms, it also takes up significant computer bandwidth.

The Filter 6A and 6B project was completed in late 2017. While the two new filters had the additional backwash parameters included in the programming, the other 10 filters' programs have not yet been upgraded.

One of the elements of the in-progress WWTP Reliability Phase II Project is the replacement of the filter backwash pumps. When new pumps are installed, they will be incorporated into the backwash program in the local Programmable Logic Controller. By upgrading the programming for Filters 1A/B through 5A/B at the same time as the pumps are being installed, significant efficiency will be gained. If this work is performed after the fact and as a standalone project, SVCW would need to contract additional pump manufacture and contractor time, including remobilization fees.

The negotiated budget for implementing upgrades to Wonderware and configuring the alarm advisor program is \$220,618.

The negotiated budget for changing the filter program is \$160,376. This reflects an estimated \$35,000 savings for completing the programming at the same time as the new Filter Backwash Pumps.

FINANCIAL IMPACT

The Wonderware Upgrade and Alarm Advisor Services will be paid from Capital Project #293. This project was identified during the current fiscal year budget process and was estimated to require a budget of \$240,000. This value was split with \$120,000 identified and included in the FY 18/19 budget and the other \$120,000 slated for inclusion in the FY 19/20 budget. The rate of CID's work will be paced such that the currently budgeted value will not be exceeded.

CIP Project #9222, Dual Media Filters 6A and 6B, has an allocated project cost of \$2,077,557. There is approximately \$1.1 million budget remaining. After this programming effort is completed, there will be approximately \$1 million remaining in the project.

RECOMMENDATION

- i. Move approval of TASK ORDER SCOPE AND BUDGET FOR PROGRAMMING SERVICES IN THE AMOUNT OF \$220,618 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS (Capital Project #293) – CASCADE INTEGRATION & DEVELOPMENT
- ii. Move approval of TASK ORDER SCOPE AND BUDGET FOR AUTOMATION PROGRAMMING SERVICES IN THE AMOUNT OF \$160,376 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS (CIP #9222) – CASCADE INTEGRATION & DEVELOPMENT

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AGENDA ITEM 8B

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LONG RANGE FINANCIAL PLAN 2019 UPDATE

<u>ISSUE</u>

Receipt and approval of the Silicon Valley Clean Water Long Range Financial Plan January 2019 Update.

BACKGROUND

The proposed Long Range Financial Plan (LRFP, or Plan) Update describes the total cash flows needed by Silicon Valley Clean Water (SVCW) over the next decade to provide wastewater services to the communities it serves. This includes funding for operations and maintenance of wastewater facilities, revenue-funded capital projects, debt service payments, and required cash reserve contributions. Meant to encourage discussion and support decision making, the Plan provides up-to-date financial information so that SVCW and its Member Entities have the information needed to understand the financial impact of decisions and communicate with internal and external stakeholders.

The Plan conforms to the financial and budgetary aspects of the SVCW Joint Powers Agreement, the adopted 2018-19 operating/capital budgets, and relevant fiscal policies that influence cash flow requirements. Staff updates the Plan annually and presents to the Commission as a measure of SVCW's financial position relative to anticipated cash flows required from Member Entities. SVCW staff strives to adhere to the Plan, including construction and cost schedules, debt coverage ratio targets, and operating cost forecasts.

DISCUSSION

In 2006, engineering studies determined the majority of SVCW's fixed assets were beyond their useful lives and needed replacement. SVCW thereafter initiated its Capital Improvement Program (CIP) to replace and rehabilitate its wastewater conveyance and treatment system in a structured and prioritized manner. Now in its eleventh year, the CIP has completed over 120 projects and to date has spent \$290 million to rebuild, rehabilitate, and upgrade SVCW facilities. An October 2018 CIP update included new information and now estimates the entire CIP cost will be \$849.6 million when complete in fiscal year 2025-26. Remaining expenditures are \$559 million as illustrated below:

SVCW Remaining Capital Expenditures - By Fiscal Year End and Member Allocation																
Member Entit	y		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24	2024-25	2025-26	Total
Belmont	9.45%	\$	12.7	\$	18.1	\$	13.2	\$	3.8	\$	1.0	\$	0.4	\$ 0.4	\$ 3.4	\$ 52.8
Redwood City	48.57%		65.2		92.9		67.7		19.4		5.0		1.9	1.9	17.7	271.6
San Carlos	15.14%		20.3		29.0		21.1		6.1		1.6		0.6	0.6	5.5	84.7
West Bay SD	26.84%		36.0		51.3		37.4		10.7		2.8		1.0	1.0	9.8	150.1
TOTAL	100.00%	\$	134.2	\$	191.3	\$	139.3	\$	40.0	\$	10.3	\$	3.8	\$ 3.8	\$ 36.5	\$ 559.2

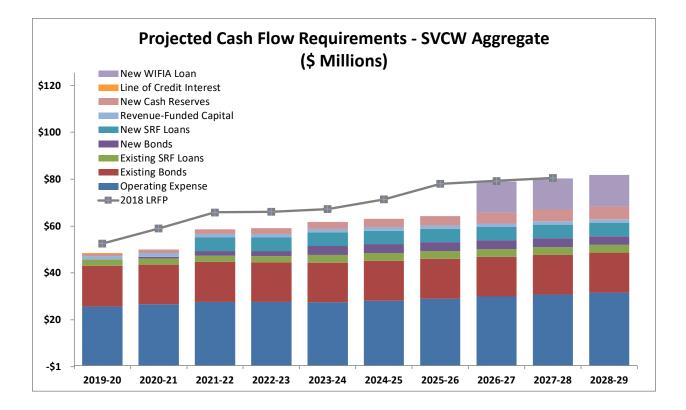
The CIP is largely funded through long-term debt strategies. The LRFP currently assumes sources of funds will include 4.3% wastewater revenue bonds, 62.4% Government Loans, and 24.8% from a 2018 bond issuance / cash contribution program already in place.

Each year, the LRFP considers three critical items:

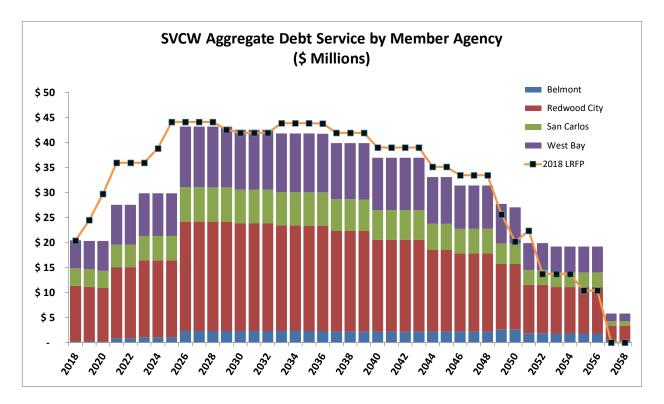
- **CIP Update**: In October 2018, SVCW updated its CIP document to incorporate changes in project cost estimates, add or delete projects, and apply inflationary impacts. Combined, these factors added \$15.9 million and bring total anticipated CIP expenditures (from inception to completion) to \$849.6 million.
- **Construction Timing**: SVCW made significant progress over the past year on the RESCU program (Regional Environmental Sewer Conveyance Upgrade). RESCU is comprised of a gravity pipeline project, front-of-plant pumping and preliminary treatment facilities, and pump station rehabilitation. By using a Progressive Design-Build (PDB) project delivery, the Authority has remained on schedule. The gravity pipeline and front-of-plant projects are in construction and it is anticipated that the PDB contractor for the pump stations project will be under contract by spring 2019. Total remaining cost of RESCU is approximately \$442 million and Engineering predicts the pace of construction will remain intact.
- **Financing Sources**: Whereas last year the LRFP assumed a modest amount of funding would come from Government Loans, this updated LRFP contains optimism in securing state and federal loans. In 2018 the California State Water Resource Control Board (the Water Board) included \$141 million for SVCW RESCU projects in its Intended Use Plan. Similarly, the federal Environmental Protection Agency (EPA) invited SVCW to participate in its Water Infrastructure Financing and Innovation Act (WIFIA) program, indicating up to a \$208 million loan amount is available. This LRFP therefore adjusted the amounts of governmental loans assumed to be available and reduced the amount of bond-financing. As a result, total debt service payments will decrease over remaining amortization periods.

FINANCIAL IMPACT

The LRFP describes the structure, timing, and amount of all SVCW expenditures over the next decade, useful to Member Entities for future rate-setting purposes. It incorporates inflation on operating expenses, estimates debt service payments needed to finance the CIP, provides for cash-funded capital projects, and accounts for future contributions to cash reserves. Whereas SVCW anticipates \$48 million is needed in fiscal year 2019-20, this annual figure will rise to \$81 million in ten years. Projected cash flow requirements are shown on the following page.

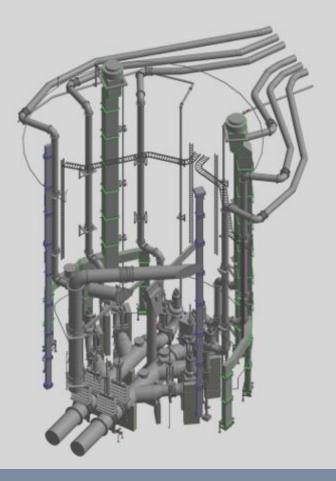


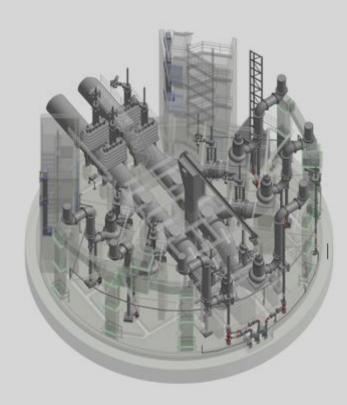
The LRFP quantifies how the above-described increase would be moderated, however, through securing low-cost governmental loans. Over the duration of the debt amortization period, total aggregate debt service is estimated at \$1.28 billion in nominal dollars which is approximately \$40 million less than the prior year LRFP. If discounted to January 2018 dollars this difference is valued at a Net Present Value of \$46 million.



<u>RECOMMENDATION</u> Move approval of RECEIPT AND ACCEPTANCE OF SILICON VALLEY CLEAN WATER LONG RANGE FINANCIAL PLAN 2019 UPDATE







Long Range Financial Plan

January 2019

Silicon Valley Clean Water

Agenda Packet Page 91

Presented January 2019 by:

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Silicon Valley Clean Water Commissioners

Commissioner

Warren Lieberman Alicia Aguirre George Otte Mark Olbert <u>Title</u> Chair Member Secretary Member

Member Agency

City of Belmont West Bay Sanitary District City of Redwood City City of San Carlos

Member Entity Staff

<u>Name</u>

Kimbra McCarthy Terrence Kyaw Thomas Fil Afshin Oskoui Rebecca Mendenhall Grace Le Steven Machida Phil Scott Liz Bahrami Bill Kitajima

<u>Title</u>

ACM of Administrative Services Public Works Director Finance Director Public Works Director Administrative Services Director City Engineer Interim Public Works Director District Manager Accountant Projects & IT Manager

Member Agency

City of Redwood City City of Redwood City City of Belmont City of Belmont City of San Carlos City of San Carlos City of San Carlos West Bay Sanitary District West Bay Sanitary District West Bay Sanitary District THIS PAGE INTENTIONALLY LEFT BLANK



Silicon Valley Clean Water Staff

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SECTION 1 – EXECUTIVE SUMMARY AND INTRODUCTION

This Long Range Financial Plan (LRFP; or the Plan) describes the anticipated cash flows required by Silicon Valley Clean Water (SVCW; or the Authority) over the next decade to provide wastewater services and fund critical construction for the communities it serves. This includes funding for operations and maintenance of wastewater facilities, revenue-funded capital projects, as well as the Capital Improvement Program (CIP) program and its associated debt service payments. It also describes contributions to cash reserves to go towards future capital improvements. This Plan is meant to encourage discussion and support decision-making. It provides to-date financial information to Member Entities (as herein defined) as they measure the financial implications of decisions and communicate with internal and external stakeholders.

SVCW's Wastewater Treatment Plant (WWTP) was placed in operation November 1981 and connected to an influent conveyance system and effluent disposal system built in 1969. In 2006, engineering studies determined the majority of SVCW fixed assets were beyond their useful lives and needed replacement. SVCW therefore initiated its Capital Improvement Program (CIP) to replace and rehabilitate the wastewater conveyance and treatment system in a structured and prioritized manner. It has also anticipated more stringent treatment requirements will be necessary. Now in its eleventh year, the CIP has completed over 120 projects and spent \$290 million through October 2018. The CIP is the Authority's guiding document and a recent update in October 2018 estimates that, inclusive of spending to date, the program will cost \$849.6 million when completed.

This Plan incorporates the guidelines from the SVCW Joint Powers Agreement, the adopted 2018-19 Operating and Capital Budget, and relevant fiscal policies that influence cash flow requirements. It also recognizes the importance of growing the Authority's cash reserves dedicated to future projects.

The LRFP is updated each year to measure SVCW financial position relative to anticipated cash flows needed from SVCW's Member Entities. After incorporating CIP construction and expenditure schedules, the LRFP-recommended strategy ensures SVCW obligations can be met while members strengthen their credit ratings.

Compared to the January 2018 LRFP, this Plan incorporates three significant changes:

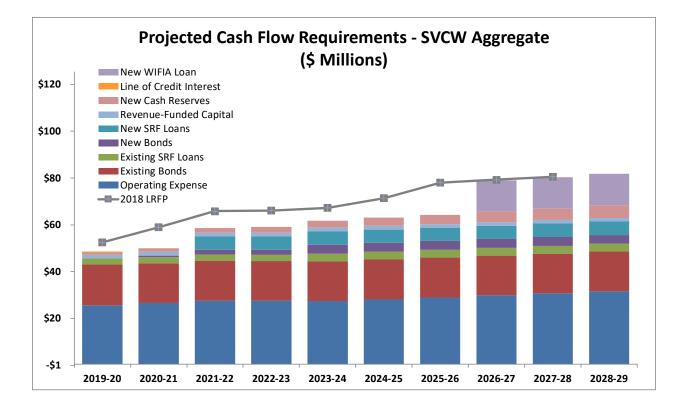
 CIP Update – In October 2018, SVCW updated its CIP document to incorporate changes in project cost estimates, add or delete projects, and apply inflationary impacts to bring project costs to mid-point of construction. It also included a cost reduction for the Nutrient Removal Program as new information garnered from the Regional Water Quality Control Board more fully defines nutrient-loading issues in the San Francisco Bay. Combined, these factors added \$15.9 million and bring total anticipated CIP expenditures (from inception to completion in 2026) to \$849.6 million.

- Construction Timing Design of SVCW conveyance projects progressed rapidly over the past year. Collectively known as RESCU, the Regional Environmental Sewer Conveyance Upgrade program is using a Progressive Design-Build (PDB) project delivery method. RESCU construction has commenced for the Gravity Pipeline and Front-of-Plant elements. Total remaining costs of RESCU are approximately \$440 million, 90% of which is anticipated be spent by the end of fiscal year 2020-21.
- Financing Sources Whereas in last year's LRFP SVCW assumed a modest amount of funding would come from Government Loans, this updated LRFP contains optimism in securing state and federal loans. In 2018 the California State Water Resource Control Board (the Water Board) included \$141 million for SVCW RESCU projects in its Intended Use Plan. Similarly, the United States Environmental Protection Agency (EPA) invited SVCW to participate in its Water Infrastructure Financing and Innovation Act (WIFIA) program, indicating up to a \$208 million loan amount may be available. This LRFP therefore adjusted the amounts of governmental loans assumed to be available and reduced the amount of bond-financing.

Like many other water treatment agencies, SVCW infrastructure was originally funded by the 1972 Clean Water Act. As assets aged, the absence of a sinking fund at SVCW created a reliance on debt to fund the current CIP. The Authority now strives to obtain the lowest-cost financing available through a combination of Wastewater Revenue Bonds, low-cost Governmental Loans at federal and state levels, and cash reserves when available.

When made aware in 2008 of the need to invest a significant amount into SVCW infrastructure, Member Entities developed strategies to increase their sewer rates. Regular updates to the CIP and this LRFP have kept Member Entities informed of the next decade of cash flow requirements and, as a result of their steady rate adjustments, only modest rate increases will be necessary.

SVCW annual cash flow requirements in FY 2019-20 are estimated at \$48 million. Cash flow requirements are thereafter projected to reach \$81.3 million by FY 2028-29 when projected new debt is fully in place. The largest increase in expenditures over the next decade is for debt service payments, which are estimated to peak at \$43.2 million annually once fully in place. Other non-debt related expenditures are less impactful; the average annual increase in Operating Expense is less than four percent. This LRFP describes the structure, timing, and amount of all expenditure increases to inform Member Entities as SVCW plans for the future.



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INTRODUCTION

Purpose of Long-Range Financial Planning

Member Entities' sewer rates provide the underlying repayment security for all SVCW financing. As such, in 2008, SVCW developed a Five Year Financial Plan (the "Financial Plan") to provide a financial roadmap for funding the CIP and ongoing operating costs. The Financial Plan was frequently updated and presented to the SVCW Commission (as hereinafter defined) to incorporate CIP budget figures. It provides a roadmap that Member Entities follow when considering sewer rates.

A long-Range financial plan combines financial projections with strategy. The Government Finance Officers Association (GFOA) recommends that all governments regularly engage in long-Range financial planning as a collaborative process to consider future scenarios and help navigate challenges. By aligning financial capacity with long-Range service objectives, SVCW and its Member Entities gain insight as to financial resources needed to support strategies. With this information, Member Entities can balance objectives and financial challenges.

SVCW will manage its finances and meet critical funding needs while recognizing its Member Entities' need to maintain reasonable wastewater rates. This LRFP will be enacted as SVCW and its Members adopt annual budgets, monitor financial performance, and incorporate Commission-directed actions. The LRFP is based upon financial planning models that include long-Range forecasts of operating and capital expenditures. It includes reasonably conservative assumptions and attempts to account for uncertainties. It aims to generate adequate cash reserves for capital projects while maintaining good standing in the credit markets to provide ready access to cost-effective capital financing when needed. It evaluates the capital financing and debt service coverage policies to optimize cash funding of capital investments. Finally, it continues to evaluate cash reserve policies that must consider intergenerational equity with regards to funding capital projects and raising rates.

The LRFP includes a debt structure model to document recommended debt strategy, identify risks to that strategy, and offer mitigation steps available or alternative funding solutions. As part of the Plan a financial model (the Model) was created to assess financing alternatives for the CIP.

This LRFP is meant to stimulate discussions for decision making by providing up-to-date financial information. Member Entities can incorporate this material to understand the financial impact of decisions, and to communicate those impacts to internal and external stakeholders. This long-Range financial plan includes the following elements:

- Time Horizon The plan looks nine years beyond the current fiscal year.
- Scope The plan considers all expenditures associated with the conveyance and treatment of wastewater received from Member Entities. Expenditures include all SVCW operating costs, capital improvements, debt service, and cash reserve requirements.
- Frequency This long-range plan is updated annually to aid Member Entities with their own budget and rate-setting processes.
- Content The plan includes an analysis of the financial environment, revenue and expenditure forecasts, debt position and affordability analysis, strategies for achieving and maintaining financial balance, and monitoring mechanisms such as a scorecard of key financial health indicators. Adherence with the financial plan and the ability to comply with the financial requirements of this Plan can be measured primarily through debt service coverage and the number of days cash on hand. SVCW can readily monitor these financial metrics through an annual review of the Member Entities' respective audited financial statements.
- Visibility The plan will inform Member Entities about the long-Range financial prospects of SVCW. Each year going forward, actual results will be compared to the LRFP by integrating it into future LRFPs.

SVCW Member Entity staff was involved in the Plan preparation process to help identify necessary tables, discuss assumptions, and review results. Member Entities, via the Silicon Valley Clean Water governing commission (the Commission), can now integrate the information provided into their own respective financial plans.

Organizational and Business Structure

SVCW was founded in 1975 as the successor to the Strategic Consolidation Sewerage Plan. SVCW took title to all property, capital and equipment of the Strategic Consolidation Sewerage Plan. SVCW maintains and operates sanitary sewerage pumping, transmission and outfall facilities that were originally constructed or otherwise owned by the Strategic Consolidation Sewerage Plan. SVCW provides wastewater transmission, treatment, and effluent disposal services for the surrounding communities including the Cities of Belmont, Redwood City, and San Carlos and for the West Bay Sanitary District (collectively, the Members Entities). SVCW provides recycled water to the City of Redwood City.

SVCW is a Joint Exercise of Powers Authority (JPA) that provides wastewater transmission, treatment, recycled water, and effluent disposal services to its Member Entities, all facilities of which (hereinafter referred to as Joint Facilities) are located in the northern part of Silicon Valley between the cities of San Francisco and San Jose. SVCW's wastewater treatment plant is located in the City of Redwood City. SVCW serves more than 200,000 people and businesses located predominantly in San Mateo County, California. SVCW operates in a strong Bay Area economy, with a customer base that includes large business customers such as Oracle Corporation, EA Sports, and Facebook.

SVCW owns and operates a regional wastewater treatment plant with an average dry weather flow permitted capacity of 29 million gallons per day, an approximately nine-mile influent force main pipeline that conveys wastewater from the Member Entities to SVCW's treatment plant, four wastewater pump stations, and a 1.25-mile effluent disposal pipeline that discharges treated effluent into the San Francisco Bay.

Governance & Management

The JPA is governed by a four-member Commission consisting of one appointed person from each of the Member Entities' governing bodies. There is a total of 100 votes, allocated as follows:

- City of Redwood City 42 votes
- West Bay Sanitary District 28 votes
- City of San Carlos 19 votes
- City of Belmont 11 votes

A vote of at least seventy five percent is required to adopt or amend bylaws, rules, and regulations; to adopt or modify any budget; to approve any capital costs, contracts, appropriations, or transfers of more than \$75,000; to employ the manager and certain consultants; to sell or dispose of property; and to approve other designated items. Other actions of the Commission must be approved by a simple majority of the votes. In addition, any amendment to the Joint Powers Agreement must be approved by a four-fifths vote by each of the Member Entities' governing bodies.

Financial Oversight and Control

SVCW sets an annual budget according to goals established by the Commission that support operational priorities, the Capital Improvement Program and the Long Range Financial Plan. The Budget reflects a progressive approach to fund wastewater operations while controlling costs, minimizing unplanned expenditures, limiting risks, and investing in projects and programs that provide the long-Range resources needed for the community.

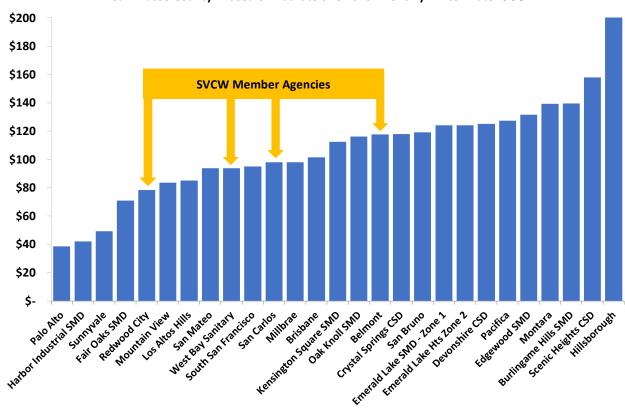
SVCW has no taxing power. SVCW receives nearly all funding, other than interest earnings and other miscellaneous revenues, from payments made by the Member Entities for operations, capital improvements, debt service, and cash reserves.

Comparative Residential Sewer Charges

Based upon previous Financial Plans, Member Entities have already adopted significant rate increases since 2008 to generate their allocable share of the CIP and capital program costs. The following table shows the single family residential monthly sewer rates of each participating SVCW Member Entity over the past ten years.

Residential Sewer Rates by Member Agency Based on 8 HCF of flow												
	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19		
Belmont	\$48.06	\$51.34	\$72.13	\$77.33	\$82.77	\$88.13	\$88.13	\$99.47	\$105.35	\$117.74		
City of Redwood City	\$44.70	\$48.72	\$53.10	\$57.88	\$63.09	\$68.77	\$74.95	\$75.11	\$76.68	\$78.24		
City of San Carlos	\$43.76	\$46.82	\$50.10	\$53.10	\$67.29	\$80.75	\$88.82	\$88.82	\$93.26	\$97.93		
West Bay SD	\$46.67	\$54.17	\$57.50	\$62.67	\$68.33	\$74.42	\$81.08	\$85.92	\$89.33	\$93.83		

Despite these increases, Member Entities' rates remain among the middle tier of San Mateo County sewer rates.



Monthly Single Family Residential Sewer Rate Survey (December 2018) San Mateo County - Based on flat rate or 8 hcf of monthly winter water USE

Regulations and Permits

The federal Clean Water Act requires that all municipal, industrial and commercial facilities that discharge wastewater or storm-water directly from a point source into a water of the United States (such as a lake, river, bay, or ocean) must obtain a National Pollutant Discharge Elimination System ("NPDES") permit. All permits are written to ensure the receiving waters will achieve certain water quality standards.

The federal government delegates the NPDES Program to the State of California for implementation through the State Water Resources Control Board and its nine Regional Water Quality Control Boards, collectively Water Boards. It is the responsibility of the Water Boards to preserve and enhance the quality of the state's waters through the development of water quality control plans and the issuance of NPDES Permits.

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SVCW currently operates under a five-year NPDES permit that is valid through September 2022. As an active member in the Bay Area Clean Water Agencies ("BACWA"), a consortium of publiclyowned treatment works agencies that operate within the nine-county San Francisco Bay Area, SVCW prepares for future NPDES permit requirements. BACWA is central since some requirements imposed may be efficiently fulfilled as a group. Through BACWA, SVCW meets provisions related to overall receiving water quality monitoring, Total Maximum Daily Load and Site Specific-Objective Support, Mercury Special Studies, Copper Action Plans, and Cyanide Action Plans.

Regulatory requirements of the NPDES program may increase in the future. Many California agencies have already been required to significantly increase treatment to remove nutrients (ammonia, nitrates and phosphates) and further reduce pathogenic organisms. Studies are also underway regarding Active Pharmaceutical Ingredients to monitor the cumulative effects of pharmaceuticals and personal products, including anti-psychotic and antihypertensive drugs.

Additionally, nutrients like nitrogen and phosphorus are found in municipal waste. When excessive, these nutrients are considered harmful water pollutants leading to such problems as algae blooms. Nutrient management is an important planning consideration for California wastewater treatment operators – both to remove and to recover these resources. This LRFP includes estimated costs needed to address nutrients in SVCW's wastewater. It should be noted, however, that SVCW has joined a cooperative to explore a joint response strategy regarding future Nutrient Removal requirements.

Financial Modeling

The CIP estimates approximately \$559 million remains to be spent on capital expenditures over the next eight years. The Financial Plan documents the funding strategy, risks to this strategy, and anticipated mitigation and/or alternative funding solutions available. Prior to issuing debt SVCW updates a capital finance model to evaluate the impact of capital program spending, operations and maintenance costs, and debt service to its, and the Member Entities', financial condition. To that end, SVCW's Chief Financial Officer oversees ongoing maintenance of quantitative modeling that includes, but is not limited to, the following:

- Historic and projected cash flows;
- Historic and projected capital expenditures;
- Historic and projected operating costs;
- Historic and projected cash reserve balances, including the Operating Fund, the CIP Fund, Revenue-funded Capital Fund, and Debt Service Reserve Fund, if any;
- Historic and projected debt service coverage;

- The most efficient mix of funding sources (debt and cash);
- The most efficient form of debt (government-subsidized loans, capital market offerings, or private loans) and most efficient structures;
- Projected revenue requirements; and
- Revenue Sources, including miscellaneous revenues and grants.

The Plan incorporates these factors to develop an all-inclusive projection of future cash flow requirements. As part of the Plan, the Financial Model was created to generate and assess multiple debt-based financing alternatives for the CIP. Several scenarios were analyzed to reach the recommended plan, including the extent to which funds would be sourced from Wastewater Revenue Bonds versus Governmental Loans. Further analysis and results are described in Sections 2 and 3 of this Plan.

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SECTION 2 – GUIDING DOCUMENTS AND PRINCIPLES

Audited Financial Reports

SVCW financial statements are maintained in accordance with all state and federal laws, Generally Accepted Accounting Policy, and standards of the Government Accounting Standards Board. This means revenues and expenses are recognized on a full accrual basis, where revenues are recognized in the period when they are earned and expenses are recognized in the period incurred.

An annual audit is performed by an independent public accounting firm, with an unqualified opinion that SVCW financial statements are presented fairly in all material respects.

Operating Budgets

Each year, the adopted budget establishes the funding requirements for Member Entities. It includes all operating costs, revenue-funded capital needs, debt service payments, and cash reserves requirements. A full overview of all expenditures facilitates discussion of anticipated changes. Subsequent to the fiscal year-end closing, annual payments made by each SVCW Member Entity are reconciled against the actual expenditures allocated to each SVCW Member Entity and any differences are applied toward funding reserves held by SVCW.

The Budget is constructed consistent with goals established by the Commission to support operational priorities and the Capital Improvement Program. The Budget reflects a progressive approach to controlling costs, minimizing unplanned expenditures, limiting risk, and investing in activities that provide the long-Range resources needed for the community.

Used as a baseline for this study, the 2018-19 Budget was \$47.1 million. This includes \$24.2 million in operating expenditures, \$1.5 million for revenue-funded capital projects, additional cash reserve contributions of \$1 million, and debt service payments estimated at \$20.4 million.

2018-19 Add	opte	d Budget - To	ota	l Contribution	is by	y Member Age	enc	ÿ	
Description		City of Belmont		Redwood City		City of San Carlos		West Bay San District	TOTAL
Net Operating Expenditures	\$	2,973,317	\$	11,245,294	\$	3,067,987	\$	6,927,025	\$ 24,213,623
Revenue-Funded Capital Expenditures		140,380		721,507		224,905		398,708	1,485,500
Reserve Contributions		92,991		477,945		148,983		264,115	984,034
Debt Service Payments		178,425		11,137,107		3,508,897		5,565,516	20,389,946
Subtotal - Contributions to SVCW	\$	3,385,113	\$	23,581,854	\$	6,950,772	\$	13,155,364	\$ 47,073,103

Expenditure Allocation

SVCW annual operating and maintenance costs are allocated according to the Joint Powers Agreement. Specifically, administrative, safety, and conveyance operating costs are allocated based on each Member Agency's proportionate share of total flow contributed to the Joint Facilities. Pump Station maintenance and operation costs are tracked as actual costs charged to each pump station and borne by the Member Agency served by each particular pump station. However, the maintenance and operation costs of the booster station are allocated on a percentage basis to West Bay Sanitary District and Redwood City at 92% and 8%, respectively.

Treatment plant operation and maintenance costs are allocated according to each Member Agency's proportionate contribution of hydraulic flow ("Flow"), Biochemical Oxygen Demand ("BOD") and Suspended Solids ("SS") to the Joint Facilities. The total annual treatment plant maintenance and operation costs are allocated as 26.5% to flow, 33.5% to Biochemical Oxygen Demand and 40% to Suspended Solids. Using these allocations, the 2018-19 Operating Budget assigns costs using the following three-year flow and loading averages:

	2018-19 E	Budget Re	evenue A	llo	cation to M	em	ber Agencie	s	Adopted		
							Redwood			West Bay	
Description					Belmont		City		San Carlos	San District	TOTAL
Allocation Factors											
Flow					12.43%		47.49%		13.89%	26.19%	100%
Biochemical Oxygen Demand	(BOD)				12.44%		44.63%		12.29%	30.64%	100%
Suspended Solids (SS)					11.97%		46.74%		11.57%	29.72%	100%
	W	eightings									
Operating Expenditures	<u>Flow</u>	BOD	<u>ss</u>								
Operations	26.5%	33.5%	40.0%	\$	1,125,355	\$	4,247,351	\$	1,141,584	\$ 2,672,767	\$ 9,187,056
Maintenance	26.5%	33.5%	40.0%		779,011		2,940,169		790,245	1,850,186	6,359,611
Laboratory	26.5%	33.5%	40.0%		216,185		815,934		219,303	513,450	1,764,871
Environmental Services	26.5%	33.5%	40.0%		143,750		542,546		145,823	341,413	1,173,532
Engineering	26.5%	33.5%	40.0%		93,467		352,765		94,814	221,987	763,033
Safety	100.0%	0.0%	0.0%		49,945		190,821		55,812	105,235	401,813
Information Services	26.5%	33.5%	40.0%		206,749		780,317		209,730	491,037	1,687,833
Administrative Services	100.0%	0.0%	0.0%		452,709		1,729,619		505,884	953,858	3,642,071
Subtotal				\$	3,067,171	\$	11,599,522	\$	3,163,195	\$ 7,149,933	\$ 24,979,821
Subtract Miscellaneous Income	26.5%	33.5%	40.0%	\$	93,854	\$	354,228	\$	95,208	\$ 222,908	\$ 766,198
2018-19 Net Operating Revenue	e Required			\$	2,973,317	\$	11,245,294	\$	3,067,987	\$ 6,927,025	\$ 24,213,623

Capital costs are distributed based on each member entity's percentage of its capacity rights as defined in the Joint Powers Agreement:

<u>Belmont</u>	San Carlos	Redwood City	West Bay
9.45%	15.14%	48.57%	26.84%

Unrelated to the number of votes originally ascribed to Member Agencies in the Joint Powers Agreement, the above capital cost distributions are derived from each member entity's share of maximum capacity rights of the originally-built facilities ("Stage 1" capacity) plus its share of expansion capacity ("Stage 2"), based on average dry weather flows.

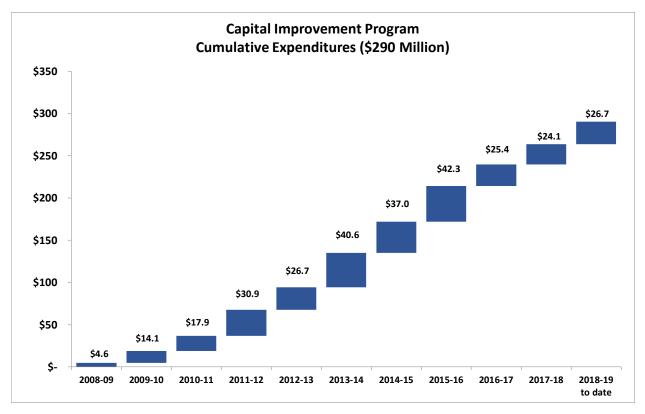
Capital costs associated with the Joint Facilities include improvements resulting from reconstruction, replacement, rehabilitation, remodeling or relocation. This includes all costs meeting the definition of a capital expense as defined in SVCW's Capital Expense Policy.

2018-19	Cap	oital and Res	ser	ve Allocatio	n C	Calculations		
Description		City of Belmont		Redwood City		City of San Carlos	West Bay San District	TOTAL
Capital and Reserve Allocation Factors		9.45%		48.57%		15.14%	26.84%	100.00%
CAPITAL IMPROVEMENT								
Plant (cash-funded capital)	\$	87,885	\$	451,701	\$	140,802	\$ 249,612	\$ 930,000
Pump Stations		-		-		-	-	-
Force Main		-		-		-	-	-
Equipment		52,495		269,806		84,103	149,096	555,500
Subtotal	\$	140,380	\$	721,507	\$	224,905	\$ 398,708	\$ 1,485,500
RESERVE CONTRIBUTIONS								
Operating Reserve	\$	(1,509)	\$	(7,755)	\$	(2,417)	\$ (4,285)	\$ (15,966)
CIP Reserve		94,500		485,700		151,400	268,400	1,000,000
Subtotal	\$	92,991	\$	477,945	\$	148,983	\$ 264,115	\$ 984,034

Capital Improvement Program

SVCW is in the process of rebuilding, rehabilitating, and updating its wastewater conveyance and treatment facilities which are at or approaching the end of their useful operating lives. A CIP was developed in 2008 to proactively address near-Range and long-Range capital replacement needs. Engineering staff periodically updates the CIP to include projects that will address known Joint Facility deficiencies. This includes rehabilitation and replacement of aging infrastructure and equipment; improvements and additions to the treatment plant and conveyance system that substantially enhance reliability; technological upgrades, required regulatory treatment improvements and system-wide automation projects designed to improve operational efficiency and reliability (thereby reducing future operating and maintenance expenses); and additional energy management solutions.

The amounts charged to CIP include all capitalized components of projects such as planning, design, engineering, construction, and construction management. The costs also include interest incurred during construction, as well as certain administrative costs like insurance and internal labor directly related to the CIP work. Since the inception of the CIP, SVCW spent approximately \$290 million through September 2018.



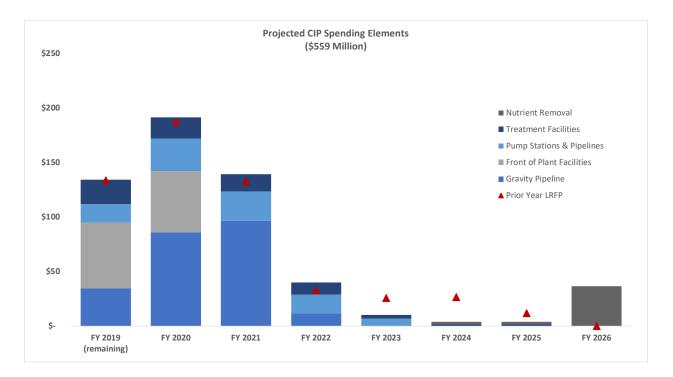
Since inception through September 2018, the majority of CIP spending has been to replace aging pipes, rehabilitate treatment facilities including energy reliability, deliver process automation, and improve solids handling processes.

CIP	Expend	itures (\$ Mi	illior	ıs)	
Program	Spe	nt to Date		Remaining	Total
Conveyance System	\$	115.8	\$	395.7	\$ 511.6
Energy and Automation		83.2		26.2	109.4
Plant Process		20.4		60.4	80.7
General Plant Facilities		35.2		7.6	42.8
Nutrient Removal		0.7		40.5	41.2
Solids Handling		20.4		19.3	39.7
Corrosion and Odor Control		14.1		9.4	23.5
CIP Support		0.5		0.2	0.7
TOTAL	\$	290.3	\$	559.2	\$ 849.6

Forecasted CIP Expenditures

The CIP was updated in October 2018 and is currently estimated to spend nearly \$850 million from inception to completion beyond 2026. Going forward, remaining expenditures are estimated at \$559 million. The below table illustrates how remaining capital expenditures are allocated amongst member entities.

	SV	'CW	/ Remain	ing	Capital I	Exp	penditure	s -	By Fiscal	Ye	ar End ai	۱d	Member	Al	location		
Member Entity			2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	2025-26	Total
Belmont	9.45%	\$	12.7	\$	18.1	\$	13.2	\$	3.8	\$	1.0	\$	0.4	\$	0.4	\$ 3.4	\$ 52.8
Redwood City	48.57%		65.2		92.9		67.7		19.4		5.0		1.9		1.9	17.7	271.6
San Carlos	15.14%		20.3		29.0		21.1		6.1		1.6		0.6		0.6	5.5	84.7
West Bay SD	26.84%		36.0		51.3		37.4		10.7		2.8		1.0		1.0	9.8	150.1
TOTAL	100.00%	\$	134.2	\$	191.3	\$	139.3	\$	40.0	\$	10.3	\$	3.8	\$	3.8	\$ 36.5	\$ 559.2
Prior LRFP Assun	nption:	\$	30.1	\$	133.7	\$	187.5	\$	132.8	\$	33.0	\$	25.9	\$	26.5	\$ 11.7	\$ 581.2



The majority of anticipated CIP costs can be attributed to replacement of the aging conveyance system infrastructure, namely, the RESCU program. RESCU is comprised of three significant elements with a combined remaining expenditures estimate of approximately \$443 million. These projects include:

- 1. Replacement of the influent force main with a gravity pipeline;
- 2. Construction of a receiving lift station, screening and grit removal, peak flow and storm water handling facilities, influent connector pipeline (collectively, "Front of Plant"), and;
- 3. Replacement / rehabilitation of the pump stations.

The environmental review for RESCU is complete for all elements. Construction has commenced for the gravity pipeline and Front of Plant elements, and the Authority anticipates entering into a Design-Build contract in early 2019 for the Pump Station Improvement Plan. Combined, these three elements require capital expenditures of \$112 to \$172 million per year for the next three years.

Cash Reserves Policy

In 2013, the SVCW Commission adopted a cash reserves policy that protects its fiscal solvency and funds future long Range capital needs. The policy describes the goals and amounts intended to be held in reserves. Each year during the budget process, SVCW reviews reserve balances and adjusts as needed. SVCW debt reserves mitigate the negative impact of revenue shortfalls from economic fluctuations, to fund unforeseen expense requirements, to provide stable rates for member entities, and to help fund future long-Range capital needs.

- The Operating Reserve must be maintained at a minimum balance of 10% of the approved Operating and Pay-go Capital Budget, plus \$1 million. This fund allows for continued operation in times of local, regional state, or national crisis or for unbudgeted, unexpected operational, maintenance or capital expenses approved by the SVCW Commission. As of December 31, 2018 the amount held in this reserve was \$3.5 million.
- The Capital Improvement Program Reserve Fund goal is to accrue funds equal to the annual calculated depreciation of SVCW facilities to meet the long Range needs of replacing capital assets when their useful life has been met. This will ultimately allow most major expenses in the future to be paid for on a pay-as-you go basis and limit the need for borrowing. Per policy, a minimum of \$1 million is added to the Capital Improvement Program Reserve Fund each fiscal year through fiscal year 2020-21, after which it shall follow prescribed increases until the annual contribution equals annual depreciation. As of December 31, 2018 the CIP reserve was \$17.9 million.
- Stage 2 Capacity Reserve is utilized to pay for capital projects that increase the treatment capacity of SVCW facilities. This fund is a pay as you go fund that derives income from fees paid by new customers to buy capacity for the use of SVCW facilities. Projects that enhance capacity will be built when there are adequate cash reserves to fund the projects if needed to accommodate additional flow or loadings or at the discretion of the SVCW Commission. As of December 31, 2018 the amount held in this reserve was \$11.1 million.

Debt Policy

SVCW adopted a debt policy in 2017 that considers intergenerational equity between residents, strives to achieve the lowest possible cost of capital, and mitigates market and credit risk. Appropriately structured, the debt policy attempts to assign capital costs between current ratepayers and future generations.

Significant capital acquisitions can be funded through traditional bonds or alternative financing mechanisms such as government loans (e.g. SRF and WIFIA) and/or public/private partnerships.

Long Range financings are structured to minimize transaction-specific risk and total debt portfolio risk to SVCW and its Member Entities.

SVCW debt must comply with all laws, legal agreements, contracts, best practices, and adopted policies related to debt issuance and management, including disseminating, in a timely manner, disclosure information concerning SVCW's and SVCW's Member Entities' financial condition. It must also follow sound procurement practices to avoid conflicts of interest.

SVCW debt promotes cooperation and coordination with all stakeholders in the financing and delivery of services by maintaining cost-effective access to capital markets through prudent debt management. This includes integrating debt policies with the operating and capital budgets, the multi-year CIP, the Long Range Financial Plan, and other financial goals. SVCW must also maintain good investor relationships through the timely dissemination of material financial information to maintain the highest practical credit rating and ensure efficient access to capital markets.

Long-Range debt financing is not used to fund operating costs or operating deficits of SVCW. The principal types of municipal debt instruments employed by SVCW to finance long-Range capital projects are SRF Loans and Wastewater Revenue Bonds. Such instruments may be refunded by the issuance of refunding obligations for economic savings and/or restructuring considerations.

Short-Range debt has Ranges to maturity of less than five years and may be issued to provide financing for the acquisition and/or construction of long-lived capital projects that could otherwise be funded by long-Range debt financing described above. This includes commercial paper notes that are issued to provide interim project financing, Bond Anticipation Notes which may have a final maturity of not more than five years and are issued in anticipation of the issuance of wastewater revenue bonds, and a short-Range line of credit not to exceed five years.

Investment Policy

SVCW has adopted a policy to invest monies not required for immediate expenditure. The policy establishes a standard of care to ensure investments are made with the appropriate considerations of capital safety, liquidity, and yield. The investment portfolio is diversified such that losses, if any, on specific securities are offset by the revenue generated from other investments. The portfolio is also kept sufficiently liquid to meet the operating and capital needs of SVCW. Within these two constraints, as well as in accordance with California Government Code Section 53601 through 53686, the investment portfolio is designed to attain the market rate of return after consideration is given to safety and liquidity.

SECTION 3 – MODELING ASSUMPTIONS

SVCW has developed a Debt Model (the Model) to project debt service costs associated with the Capital Improvement Plan. Currently there is approximately \$559 million of capital projects to be funded over the next eight years. The Model allows SVCW to produce multiple funding scenarios that compare debt service costs at aggregate and Member Entity levels. The Model also optimizes variables by considering the impact of using cash, longer repayment Ranges, caps on debt service levels, deferred repayment, and changes in interest rate assumptions.

For each change in assumption, the Model displays total aggregate debt service, maximum aggregate annual cost, average annual debt service cost, weighted average cost of capital and weighted average CIP repayment year, among a few other debt summary outputs. Additionally, the Model shows the height and length of the "plateau" of this plateau, a critical consideration for members' sewer rates. Finally, the Model also compares efficiency versus affordability of financing the debt by determining the length of each repayment period and financing rates.

Debt Structure

The Model generated and compared multiple debt financing scenarios to fund the total CIP by comparing interest rates and average costs per year. The flexibility of the Model allows for changing multiple assumptions, including interest rates, the timing and structure of government loan or bond repayments, and the mix of financing methods such as government loans or wastewater revenue bonds.

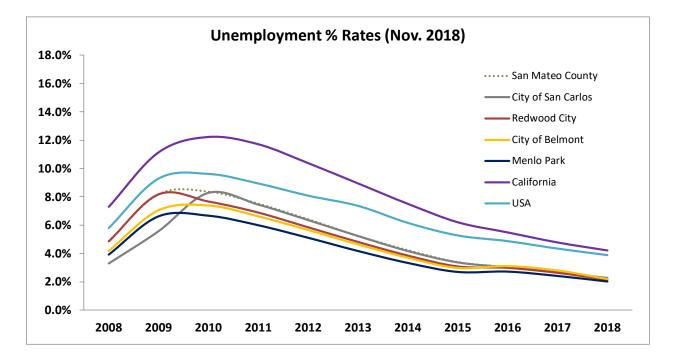
While the availability of government loan programs like SRF and WIFIA is uncertain, these loans are attractive for their low interest rates and traditional structures. Both have a similar structure as revenue bonds: thirty-year amortization and level debt service, but the SRF interest rate is set at half the California General Obligation Bonds rate while the WIFIA program is at the Treasury rate plus a few basis points. For example, tax-exempt interest rates in the current AAA bond market for a thirty-year maturity were approximately 3.03% as of January 11, 2019; or approximately 181 basis points higher than SVCW's anticipated SRF loan at an effective rate of 1.22%. Including the additional execution costs of a publicly offered debt issue, SRF Loans are clearly the most cost-effective strategy as they become available.

Economic Factors

Sewer revenues are somewhat influenced by the strength of the economy and other financial indicators. SVCW-estimated operating costs and the timing of CIP expenditures assume neither a significant downturn nor expansion in the San Francisco Bay Area economy. General economic conditions are comprised of many different factors; but sewer revenues are likely influenced by only a few factors. This report therefore focuses on six different broad factors that are good indicators of a strong economic environment: unemployment, assessed property valuation, taxable sales, income (measured by effective buying income and median household income), and interest rates.

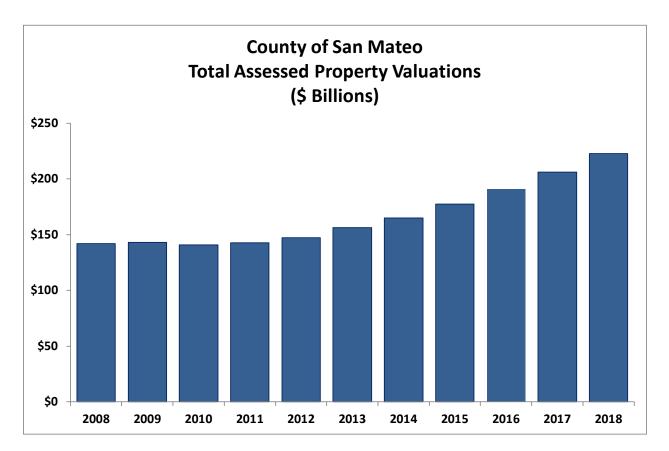
Unemployment

Reflective of the Bay Area's strong economy, recent 2018 data from the United States Bureau of Labor Statistics shows unemployment rates for San Mateo County at 2.2%, well below California and National rates, respectively. The cities of San Carlos, Redwood City, Menlo Park and Belmont show similarly low rates.



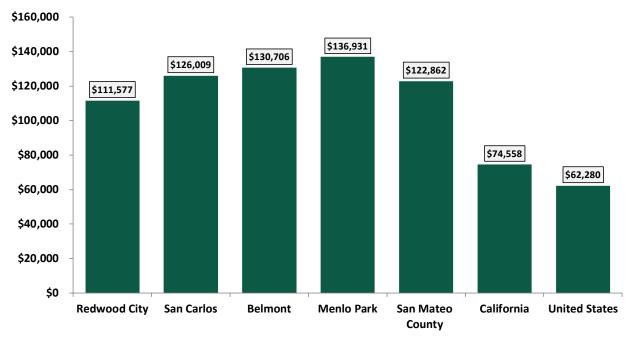
County Assessed Valuations

San Mateo County has approximately \$223 billion in total assessed real property valuation, an increase of \$16.5 billion (or 8.0%) from the previous year.



Median Household Income

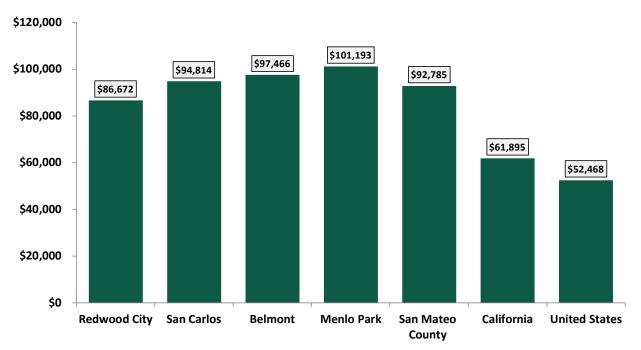
The median household incomes and effective buying incomes are consistently above the State and National income rates for San Mateo County, City of Belmont, City of San Carlos, City of Menlo Park and Redwood City. Public 2018 economic data shows that the median household income of San Mateo County, at \$122.8 thousand, is 197 percent and 165 percent of the Nation's and State's median household income, respectively.



2018 Median Household Income

Effective Buying Income

The Communities served by SVCW show high effective buying income levels in comparison to National and State medians. The Effective Buying Income is the amount of a consumer's disposable income; it reflects the money consumers have to spend after taxes. The following chart shows that SVCW communities have Effective Buying Incomes of \$86 thousand to \$101 thousand, which is 165 percent to 193 percent of the National levels, and 140 percent to 163 percent of California levels.

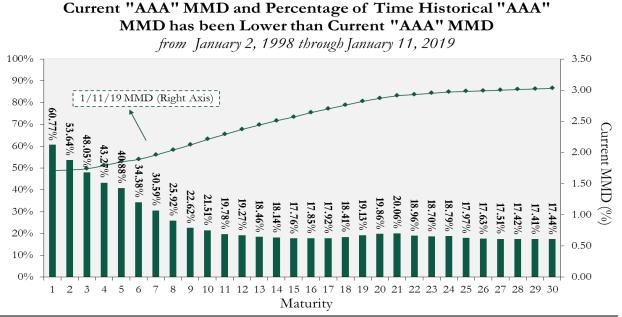


2018 Effective Buying Income

Interest Rates

Based upon market conditions, every financing tool has projected interest rates depending on the type of the debt whether it is fixed or variable. For example, the anticipated SRF loan rate for the RESCU program, based on discussions with the State, is 1.22%. WIFIA loan rate is tied to the treasury rate and is forecasted at 3.45%. As fixed rate bonds are subsequently used, SVCW anticipates a projected interest rate of 4.25% for bonds issued in 2021. Short-Range Note Obligations are assumed to be at a rate of 2.25%. Finally, the Model uses a total projected variable rate of 3.40% inclusive of annual liquidity fees. At present, tax-exempt rates have remained above the near-historical lows of July 2016.

The table below provides tax-exempt interest rates for the Municipal Market Index as of January 4, 2019 and compares current rates to historical rates by Range. The data demonstrates that interest rates, while near historical lows throughout the yield curve, were lower historically in the shorter maturities than in the later years, i.e., years 20 through 30.

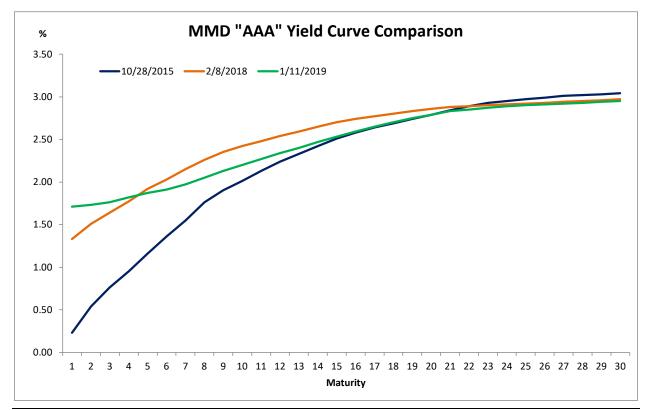


Source: Thomson Municipal Market Monitor

The two yield curves shown below represents the interest rates for the maturity years 1 - 30 for October 28, 2015 (the sale date of SVCW's last Bond issuance) and February 8, 2018 (sale date of SVCW's 2018 Bond issuance) in comparison to January 4, 2019. The most notable change is the rising of rates along the short end of the yield curve since 2015, as 2019 short-Range rates in 1 to 10-year maturities have risen sharply while longer maturities have decreased from 2015 levels.

Until 2016, slow national economic recovery prompted central banks to keep interest rates low to spur economic recovery. The Federal Reserve has continued to increase the Fed Funds rate by

¹⁄₄ percent seven times since and is expected to raise rates three additional times during 2019. However, with interest rates still near historical lows it remains an advantageous time to finance projects as recommended by the Plan.



Source: Thomson Municipal Market Monitor

Interest earnings on Project Funds and Reserves:

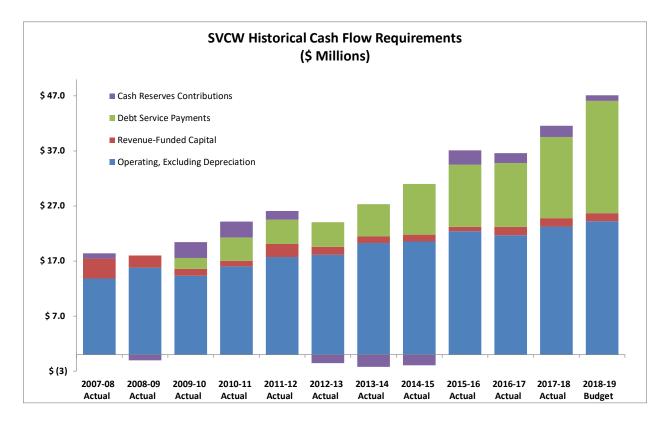
It is estimated that funds held by SVCW related to the CIP, including reserve funds required by the SRF Loan program, will receive investment earnings of 1.5% annually over the long Range.

SECTION 4 – HISTORICAL FINANCIALS

Historical Cash Flow Requirements

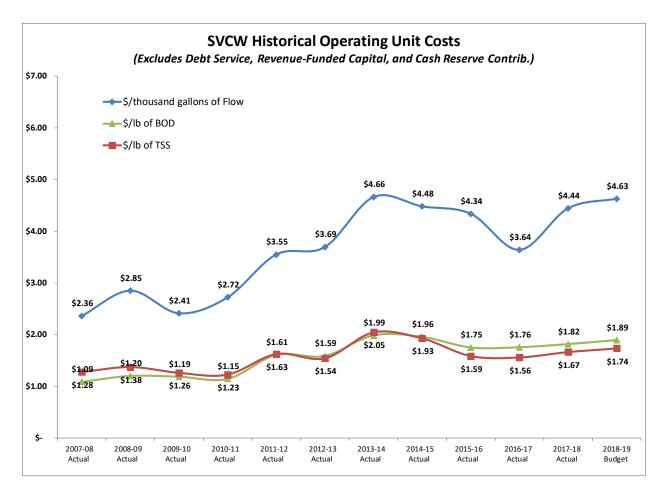
Total Cash Flow Requirements

SVCW annual cash flow requirements from Members have more than doubled over the past decade, mostly due to higher debt service payments needed to finance its CIP.



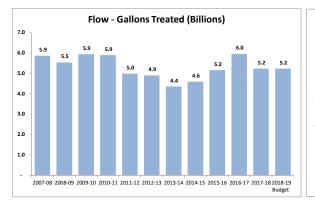
Historical Unit Costs

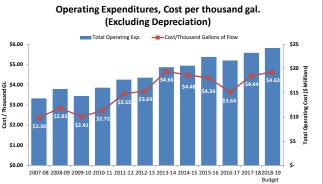
When isolated to only Operating Expenditures (excluding Depreciation), SVCW historical operating unit costs have increased 75% since the pivotal year 2007-08 eleven years ago. Since then SVCW has experienced ordinary inflationary pressures, increased Maintenance staff to better service SVCW assets, and established an Engineering Division to develop and manage the CIP.

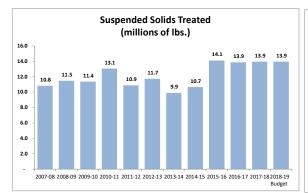


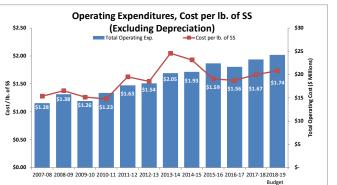
In addition to the change in wastewater flows caused by droughts, the characteristics of the wastewater stream have also changed as local communities added housing and commercial developments. Low-flush toilets have introduced higher concentrations in wastewater, and both Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS) have been at all-time highs beginning 2016-17. The following charts provide a side-by-side comparison of operating volumes and unit cost trends.

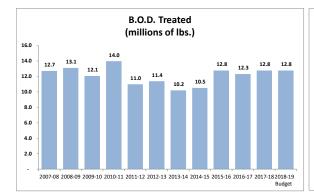
Another influencing factor on unit costs is volatility of operating volumes (Flow, Biological Oxygen Demand, and Total Suspended Solids). Drought conditions from 2011 to 2016 contributed to a rise in Unit Costs, then afterwards returned to "normal" levels in 2017. These Unit Costs are defined as Operating Cost per thousands of gallons treated, Operating Costs per pound of TSS, and Operating Costs per pound of BOD.

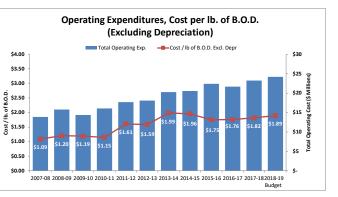








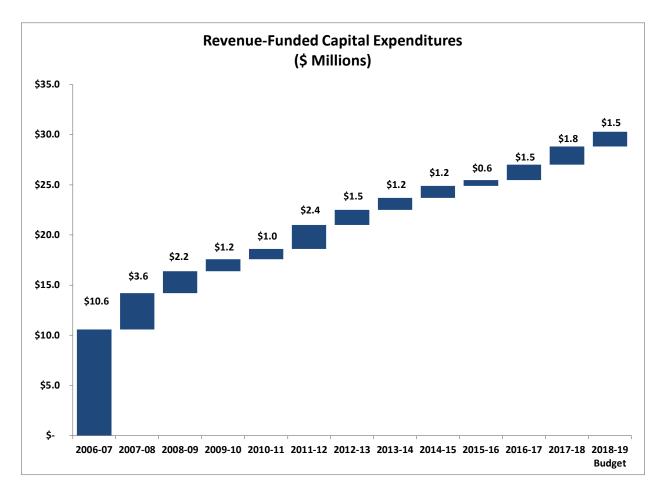




Revenue-Funded Capital Expenditures

Revenue-Funded Capital Expenditures are for capital projects that are generally below \$1 million and completed within one year. Revenue-funded capital projects may include minor construction, purchase of vehicles or heavy equipment, maintenance repairs that improve an asset's useful life, as well as planning studies or preliminary engineering analysis for major capital improvements. Due to their relatively minor cost, it is appropriate to fund these items using cash rather than long-Range debt.

Since 2006-07, SVCW has spent approximately \$28.8 million on Revenue-Funded Capital. Prior to formally adopting the Capital Improvement Program in fiscal year 2007-08, Member Entities made



relatively large cash contributions to address SVCW's immediate capital project needs. Since 2008-09, however, SVCW has averaged \$1.4 million annually in Revenue-Funded capital expenditures.

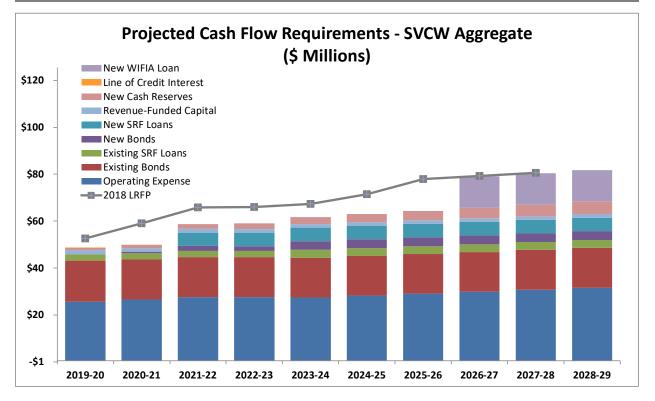
Cash Reserves

The SVCW Commission has adopted cash reserve policies that document the goals and amounts intended to be held in reserves. Each year, the SVCW budget process reviews reserve balances and makes adjustments necessary to meet the policy. In 2017-18, \$1 million was contributed to the Capital Improvement Program Reserve.

SECTION 5 – TEN-YEAR FINANCIAL PROJECTIONS

In fiscal year 2019-20 SVCW anticipates total expenditures will be \$48.2 million for all costs of operations, debt service, revenue-funded capital, and reserve contributions. This figure is anticipated to grow to \$81.3 million over the next ten years:

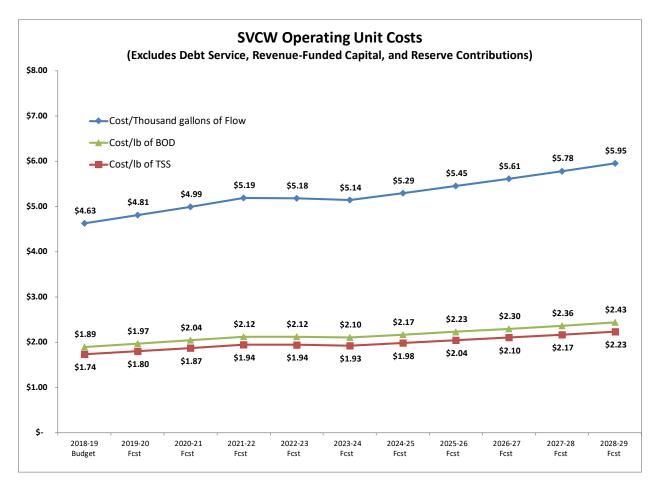
			l	Projectec	I SV	CW Cash	Flov	v Require	eme	nts - Agg	rega	te (\$ Mill	ion	s)						
Description	2	019-20	2	020-21	20	021-22	2()22-23	2(023-24	20	024-25	2(025-26	2(026-27	20	27-28	20	28-29
Operating Expense	\$	25.15	\$	26.09	\$	27.13	\$	27.09	\$	26.87	\$	27.68	\$	28.51	\$	29.36	\$	30.23	\$	31.12
Existing Bonds		17.46		17.02		17.01		17.00		17.00		17.01		16.98		16.98		16.98		16.97
Existing SRF Loans		2.63		2.63		2.63		2.63		3.32		3.32		3.32		3.32		3.32		3.32
New Bonds		-		0.68		2.12		2.12		3.77		3.77		3.77		3.77		3.77		3.77
New SRF Loans		-		-		5.75		5.75		5.75		5.75		5.75		5.75		5.75		5.75
Line of Credit Interest		0.20		-		-		-		-		-		-		-		-		-
New WIFIA Loan		-		-		-		-		-		-		-		13.36		13.36		13.36
Revenue-Funded Capital		1.80		1.50		1.50		1.50		1.50		1.50		1.50		1.50		1.50		1.50
New Cash Reserves		1.00		1.50		2.00		2.50		3.00		3.50		4.00		4.50		5.00		5.50
TOTAL	\$	48.24	\$	49.42	\$	58.14	\$	58.60	\$	61.22	\$	62.53	\$	63.83	\$	78.54	\$	79.91	\$	81.30



Operating Expenditures

Total operating expenses will increase by approximately 3.65 percent annually over the next decade. The Financial Plan has incorporated future benefits of power generation, revenues from food waste, and improved productivity from automation.

			SV	′CV	V Operatir	g E	Expenditur	es	(\$ Millior	ıs)					
Description	2018-19 Budget	2019-20 Forecast	2020-21 Forecast		2021-22 Forecast		2022-23 Forecast		2023-24 Forecast		2024-25 Forecast	2025-26 Forecast	2026-27 Forecast	2027-28 Forecast	2028-29 Forecast
Personnel	\$ 15.7	\$ 16.4	\$ 17.0			\$	18.4	\$	18.9	\$		\$ 20.0	\$	\$ 21.1	\$ 21.7
Utilities	1.7	1.8	1.9		1.7		1.8		1.9		2.0	2.0	2.1	2.2	2.3
Administrative Costs	0.5	0.5	0.5		0.5		0.5		0.6		0.6	0.6	0.6	0.6	0.6
Equipment & Supplies	2.7	2.7	2.8		2.9		3.0		3.1		3.2	3.3	3.4	3.5	3.6
Chemicals	1.5	1.6	1.6		1.7		1.7		1.8		1.8	1.9	1.9	2.0	2.0
Professional Services	0.8	0.9	0.9		0.9		1.0		1.0		1.0	1.0	1.1	1.1	1.1
Contractual Services	1.6	1.7	1.7		1.8		1.9		1.9		2.0	2.0	2.1	2.1	2.2
Regulatory and Training	0.4	0.4	0.4		0.4		0.4		0.4		0.4	0.5	0.5	0.5	0.5
Total Expenditures	\$ 25.0	\$ 25.9	\$ 26.9	\$	27.7	\$	28.7	\$	29.5	\$	30.4	\$ 31.3	\$ 32.2	\$ 33.1	\$ 34.1
Less Misc. Revenue	(0.8)	(0.8)	(0.8)		(0.5)		(1.6)		(2.7)		(2.7)	(2.8)	(2.8)	(2.9)	(3.0)
Net Operating Expend.	\$ 24.2	\$ 25.1	\$ 26.1	\$	27.1	\$	27.1	\$	26.9	\$	27.7	\$ 28.5	\$ 29.4	\$ 30.2	\$ 31.1



Debt Service Structure / Annual Debt Service Payments

SVCW uses debt as necessary to fund its CIP. Through its Member Entities, SVCW has already funded or has received funding commitments of \$457 million for capital improvements. Sources of funds include Wastewater Revenue Bonds, Member Entity cash contributions, SRF Loans, and grants.

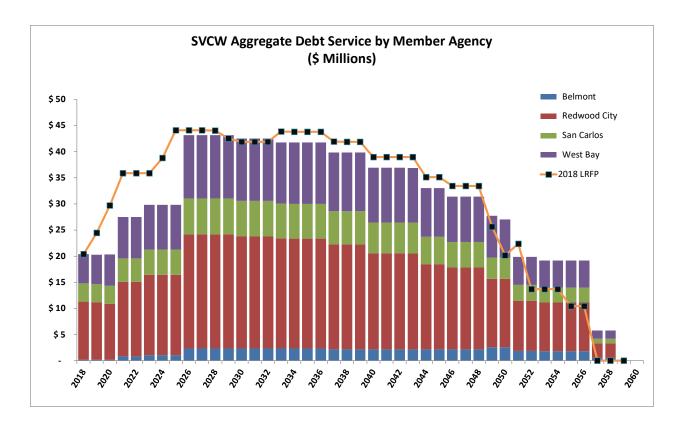
Source of CIP Funds to	date (\$ millions	s)	
Description	All-in TIC / Interest Rate	Max Proceeds	Available Proceeds at 10/31/18
Bonds	nate		,,
2008 Wastewater Revenue Bonds	5.03%	\$ 10.01	\$ -
2009 Wastewater Revenue Bonds	5.12%	55.86	-
2014 Wastewater Revenue Bonds	4.18%	65.54	. –
2015 Wastewater Revenue Bonds	3.75%	30.00	
2018 Wastewater Revenue Bonds	3.43%	148.98	101.12
Subtotal - Bonds		310.38	101.12
Cash Contributions in lieu of Debt			
Belmont		34.15	10.10
Redwood City		10.00	-
West Bay Sanitary District	-	13.02	13.02
Subtotal - Cash		57.16	23.12
State Revolving Fund Loans			
Control Building	2.60%	11.36	-
WWTP Improvements	1.80%	31.55	-
Conveyance Planning	1.60%	14.00	2.78
Subtotal - SRF	-	56.91	2.78
Line of Credit			
Wells Fargo LOC	LIBOR-based	65.00	51.30
Grant Funding			
PG&E Cogeneration Grant		2.40	0.60
California Energy Commission	-	0.50	-
Subtotal - Grant Funding		2.90	0.60
TOTAL	-	\$ 492.36	\$ 178.91

Looking forward, approximately \$559 million of the CIP remains to be funded. This LRFP recommends the following debt structure, with a comparison to the prior year's LRFP:

Description	2018 LRFP	2019 LRFP
Remaining CIP to be funded	\$581 Million	\$559 Million
Fixed Rate Bonds / % of New Debt	\$371M / 65%	\$24M / 4.3%
Variable Rate Bonds / % of New Debt	\$115M / 19%	\$48M / 8.5%
Government Loans / % of New Debt	\$65M / 11%	\$349M / 62.4%
Proceeds or Cash / % of New Debt	\$30M / 5%	\$139M / 24.8%
Weighted Average Cost of Capital %	3.64%	2.88%

The updated debt structure, compared to 2018 estimates, will reduce service payments through the next 23 years. These savings are significant especially over the next seven years due to unique WIFIA structure that allows debt amortization to be deferred for up to five years after completion of construction.

Over the entire 41-year period displayed below, total aggregate debt service is now estimated at \$1.28 billion, or approximately \$40 million (in nominal dollars) less than the prior year's LRFP. If discounted to today's dollars, this difference is valued at a Net Present Value of \$46 million.



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SVCW Wastewater Revenue Bonds

Financing Agreements adopted between SVCW and its Member Entities obligate each of these agencies to make payments to SVCW for their respective allocable share of debt service. The City of Belmont has, to date, not participated in SVCW Bond financing and is therefore not obligated to make debt service payments on bonds currently outstanding.

Existing bond debt service payments are \$17.5 million in fiscal year 2019-20, including four issuances from 2009, 2014, 2015, and 2018. Only one new Bond Debt issuance is planned in 2021, and a variable-rate issuance in 2023.

State Revolving Fund Loans

SVCW has thus far financed certain projects by entering into three separate sale-repurchase agreements with the State Water Resources Control Board (SWRCB). This program is funded from the California State Revolving Fund (SRF) program. The project funds, including any accrued interest, are repaid in annual installments commencing one year after construction.

Current SRF loan payments will peak at \$3.3 million. These loans financed the Control Building, certain Wastewater Treatment Improvements loans, and conveyance system planning efforts.

SVCW is currently in discussions with the SWRCB to secure a \$140.8 million SRF loan for the gravity pipeline element of RESCU, anticipated to close in 2019.

Line of Credit

SVCW holds a \$30 million Line of Credit (LOC), with the ability to increase it to \$65 million. This LOC provides bridge financing for CIP projects. It remains a valuable tool to manage cash flow and to date has reduced overall borrowing costs. Specifically, the LOC furnishes interim cash flows between bond issuances or when SVCW awaits reimbursement of construction costs funded by the SRF program. When borrowing through SRF, SVCW pays for services and afterwards submits paid invoices to the state for reimbursement. Reimbursement generally takes 90 to 120 days and the LOC acts as a bridge loan during this period.

Revenue-Funded Capital Expenditures

SVCW anticipates investing approximately \$1.5 million annually in critical projects to maintain ongoing operations. These projects are purchased and may be installed and managed by staff, examples of which include vehicles, valves, pumps, motors, gear assemblies, technology devices, or maintenance equipment.

Cash Reserves Contributions

The table below shows the projected annual cash reserve contributions to the Capital Improvement Program Fund, its earnings, and the balances. After ten years SVCW is projected to have nearly \$53 million in cash reserves that could be used for the next generation of capital improvements.

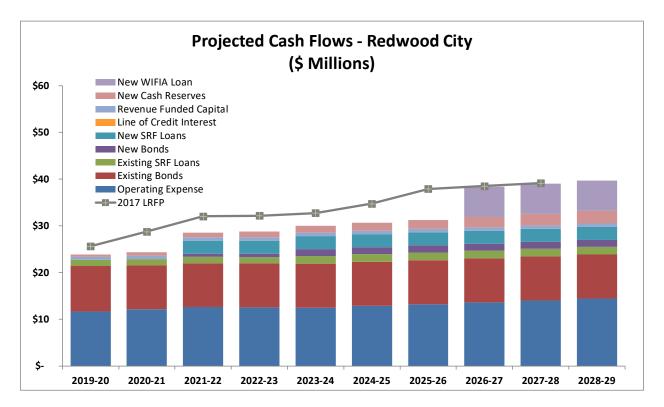
						CIP Ca	sh R	eserves	For	ecast (\$	Mi	llions)								
Description	20	19-20	20	20-21	20	21-22	20)22-23	2()23-24	2	024-25	2	025-26	2	026-27	2	027-28	20	28-29
Beginning Balance	\$	17.1	\$	18.3	\$	20.0	\$	22.2	\$	25.0	\$	28.3	\$	32.1	\$	36.4	\$	41.3	\$	46.8
Contributions		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5		5.0		5.5
Earnings		0.2		0.2		0.2		0.2		0.3		0.3		0.4		0.4		0.5		0.5
Ending Balance	\$	18.3	\$	20.0	\$	22.2	\$	25.0	\$	28.3	\$	32.1	\$	36.4	\$	41.3	\$	46.8	\$	52.8

Cash Reserve contributions follow SVCW policy at \$1 million contributed annually through fiscal year 2020-21, after which it increases annually by \$500 thousand until contributions match annual depreciation expense.

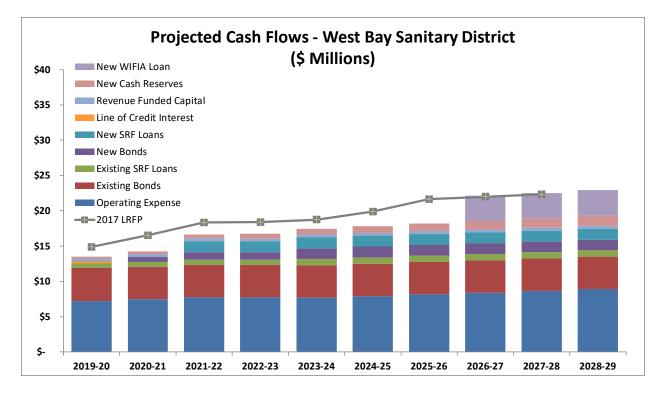
Total Cash Flow Projections by Member Entity

The following charts and tables describe the cash flow projections required for all SVCW expenditures. Each Member Entity is also provided with a detailed description for their own planning purposes.

Redwood City

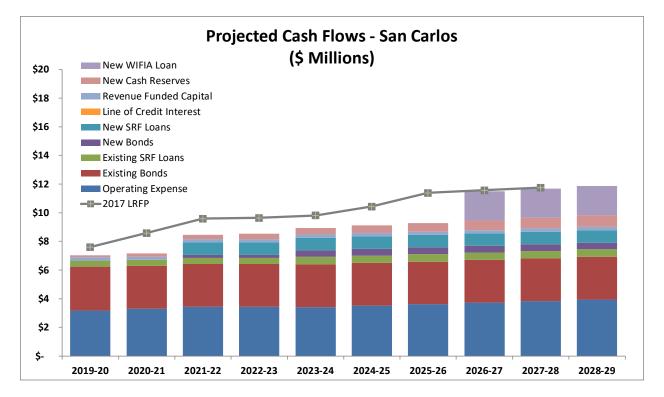


			Pr	ojected S	SVCV	V Cash Fl	ow	Requiren	nent	s - Redw	ood	City (\$ N	1illic	ons)						
Description	2	019-20	2	020-21	2(021-22	2	022-23	20)23-24	2(024-25	2	025-26	2	026-27	20	027-28	20	28-29
Operating Expense	\$	11.68	\$	12.12	\$	12.60	\$	12.58	\$	12.48	\$	12.85	\$	13.24	\$	13.63	\$	14.04	\$	14.46
Existing Bonds		9.68		9.43		9.42		9.42		9.42		9.41		9.41		9.41		9.41		9.40
Existing SRF Loans		1.32		1.32		1.32		1.32		1.65		1.65		1.65		1.65		1.65		1.65
New Bonds		-		-		0.70		0.70		1.50		1.50		1.50		1.50		1.50		1.50
New SRF Loans		-		-		2.79		2.79		2.79		2.79		2.79		2.79		2.79		2.79
Line of Credit Interest		-		-		-		-		-		-		-		-		-		-
New WIFIA Loan		-		-		-		-		-		-		-		6.49		6.49		6.49
Revenue Funded Capital		0.87		0.73		0.73		0.73		0.73		0.73		0.73		0.73		0.73		0.73
New Cash Reserves		0.49		0.73		0.97		1.21		1.46		1.70		1.94		2.19		2.43		2.67
TOTAL	\$	24.04	\$	24.32	\$	28.53	\$	28.76	\$	30.03	\$	30.64	\$	31.27	\$	38.39	\$	39.04	\$	39.69



		Project	ed S	VCW Ca	ish F	low Red	quire	ements	- We	est Bay S	Sani	tary Dis	rict	(\$ Milli	ons)					
Description	2019-20 2020-21		2()21-22	2(2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		28-29		
Operating Expense	\$	7.19	\$	7.46	\$	7.76	\$	7.75	\$	7.69	\$	7.92	\$	8.16	\$	8.40	\$	8.65	\$	8.90
Existing Bonds		4.71		4.59		4.60		4.59		4.59		4.59		4.59		4.58		4.58		4.58
Existing SRF Loans		0.73		0.73		0.73		0.73		0.91		0.91		0.91		0.91		0.91		0.91
New Bonds		-		0.68		1.07		1.07		1.51		1.51		1.51		1.51		1.51		1.51
New SRF Loans		-		-		1.54		1.54		1.54		1.54		1.54		1.54		1.54		1.54
Line of Credit Interest		0.20		-		-		-		-		-		-		-		-		-
New WIFIA Loan		-		-		-		-		-		-		-		3.59		3.59		3.59
Revenue Funded Capital		0.48		0.40		0.40		0.40		0.40		0.40		0.40		0.40		0.40		0.40
New Cash Reserves		0.27		0.40		0.54		0.67		0.81		0.94		1.07		1.21		1.34		1.48
TOTAL	\$	13.58	\$	14.27	\$	16.64	\$	16.75	\$	17.45	\$	17.82	\$	18.18	\$	22.14	\$	22.53	\$	22.92

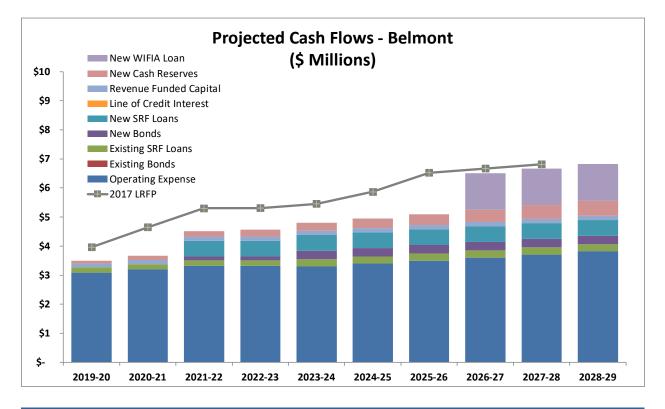
San Carlos



	Projected SVCW Cash Flow Requirements - San Carlos (\$ Millions)																			
Description	20	2019-20 2020		2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		28-29
Operating Expense	\$	3.19	\$	3.31	\$	3.44	\$	3.43	\$	3.40	\$	3.51	\$	3.61	\$	3.72	\$	3.83	\$	3.94
Existing Bonds		3.07		2.99		2.99		2.99		3.00		3.00		2.98		2.99		2.99		2.99
Existing SRF Loans		0.41		0.41		0.41		0.41		0.51		0.51		0.51		0.51		0.51		0.51
New Bonds		-		-		0.22		0.22		0.47		0.47		0.47		0.47		0.47		0.47
New SRF Loans		-		-		0.87		0.87		0.87		0.87		0.87		0.87		0.87		0.87
Line of Credit Interest		-		-		-		-		-		-		-		-		-		-
New WIFIA Loan		-		-		-		-		-		-		-		2.02		2.02		2.02
Revenue Funded Capital		0.27		0.23		0.23		0.23		0.23		0.23		0.23		0.23		0.23		0.23
New Cash Reserves		0.15		0.23		0.30		0.38		0.45		0.53		0.61		0.68		0.76		0.83
TOTAL	\$	7.09	\$	7.16	\$	8.46	\$	8.53	\$	8.94	\$	9.11	\$	9.28	\$	11.49	\$	11.68	\$	11.87

Belmont

Belmont has, to date, chosen to not participate in SVCW Bond issuances, including the 2018 Bond Issuance. This produces lower debt service payments for Belmont as compared to the 2018 LRFP, albeit the City of Belmont has financed \$22.5 million for SVCW-related capital needs on its own.



Projected SVCW Cash Flow Requirements - Belmont (\$ Millions)																				
Description	2019-20		20 2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		202	28-29
Operating Expense	\$	3.09	\$	3.20	\$	3.33	\$	3.33	\$	3.30	\$	3.40	\$	3.50	\$	3.60	\$	3.71	\$	3.82
Existing Bonds		-		-		-		-		-		-		-		-		-		-
Existing SRF Loans		0.18		0.18		0.18		0.18		0.24		0.24		0.24		0.24		0.24		0.24
New Bonds		-		-		0.14		0.14		0.29		0.29		0.29		0.29		0.29		0.29
New SRF Loans		-		-		0.54		0.54		0.54		0.54		0.54		0.54		0.54		0.54
Line of Credit Interest		-		-		-		-		-		-		-		-		-		-
New WIFIA Loan		-		-		-		-		-		-		-		1.26		1.26		1.26
Revenue Funded Capital		0.17		0.14		0.14		0.14		0.14		0.14		0.14		0.14		0.14		0.14
New Cash Reserves		0.09		0.14		0.19		0.24		0.28		0.33		0.38		0.43		0.47		0.52
TOTAL	\$	3.53	\$	3.67	\$	4.52	\$	4.56	\$	4.80	\$	4.95	\$	5.10	\$	6.51	\$	6.67	\$	6.83

SECTION 6 – SENSITIVITIES

Traditional risks to the efficient completion of large capital plans include unanticipated increases such as inflation and interest rate volatility. The risks of inflation and rising interest rates are outside the control of SVCW; however, strategies can mitigate these risks. The Plan, for instance, assumes a 4% inflation factor in operating costs. Further, interest rates utilized by the Model are conservative and generally based on historical averages and, as a result, are presumed to be higher than current market rates. As another example of cost preparedness, SVCW increased the CIP estimates by implementing cost inflators through the midpoint of construction.

To assess the impact of borrowing at interest rates higher than the conservative rates assumed in the recommendation, a sensitivity-analysis was conducted by increasing the weighted cost of capital by approximately 50 basis points (0.50%). Such an increase would result in a greater debt service cost of (Net Present Value) \$23.8 million over the life of the debt issued.

Capital Improvement Program Adherence

The timing of the projects is considered achievable under present economic and operational assessments. Based upon the size of the CIP the cost is significant and the interest expense is also significant. Adhering to the timing of the CIP is singularly the most cost-effective strategy to minimize inflation and interest rate risks. As the regional economy continues to expand, costs will continue to rise. Delays to the CIP by one year will likely increase costs by approximately \$26.6 million based upon a construction cost inflation factor of 4%. SVCW has shown that its Progressive Design-Build project delivery method has so far managed to avoid such inflationary schedule risks.

Government Loan Availability

The SWRCB has secured \$57 million in SRF loans thus far. The low cost of these loans, combined with attractive repayment Ranges, increased the competition from other agencies. While the SWRCB has been unable to meet its current demand for SRF loans, it has identified the SVCW RESCU program as eligible for a \$140.8 million SRF loan. SVCW is actively working to close this loan in mid-2019, though the agreement is not yet completed.

In October 2018 the Environmental Protection Agency (EPA) selected SVCW's Letter of Interest for a WIFIA loan. The Authority is now in negotiations with the EPA to secure \$208 million for the RESCU program, with potential flexibility to draw up to \$233 million.

Inflation

Operating Expenditures - The LRFP includes inflationary assumptions of approximately 4% on operating costs. The Consumer Price Index (CPI) is a measure of the "average change in prices over time in a fixed market basket of goods and services" which translates to a guide for determining the prices on food, energy, fuel and other goods and services. CPI is a good indicator of how the economy holds up against inflation and surrounding economic changes.

Capital Expenditures – Construction costs of labor and materials continue to increase. While SVCW negotiates for best pricing on projects, the rise in material and labor costs will place upward pressure on the CIP. SVCW accounted for capital project inflation by increasing the CIP budget by a range of 3.7% to 4.25% through the midpoint of construction, adding \$42.6 million.

Interest Rates

It is impossible to predict interest rate levels or the timing of changes. What is known, however, is today's interest rates remain near historical lows. Since tax-exempt interest rates are already at historical low levels, a decrease in rates is unlikely. A more plausible outcome would be for the market to experience higher interest rates in the future.

Changes in interest rates would be somewhat mitigated with SRF Loan funding, since its rate is 50% of the State's public borrowing cost. Publicly issued debt, however, would bear the entire market increase with estimated rates.

If SVCW's Weighted-Average Cost of Capital was to increase by 50 basis points (or 0.5%), SVCW annual debt service payments (at its maximum aggregate point) would increase by \$2.18 million. Over the entire amortization Range, the cost of this change in interest rates would be a Net Present Value of \$23.8 million. It should be noted, however, that both the SRF Loan interest rates and publicly issued bond rates assumed in the Model have a significant cushion versus the current market (e.g. fixed rates are approximately 0.82% higher than the recent 2018 Fixed Bond rate).

SECTION 7 – SUMMARY

SVCW provides this Long Range Financial Plan as a recommendation and implementation strategy to fund the next decade of capital improvements. The Plan documents the analysis of possible alternatives. Due to the extensive nature and cost of the CIP, leveraging long Range debt is the most practical funding method. Individual Members may of course determine that, for their own specific purposes, cash contributions may be appropriate.

Due to the historical lack of a sinking fund and cash reserves, the recommended debt strategy is in lieu of a pay-go cash strategy. Debt allows SVCW to distribute costs over the expected useful lives of constructed assets, and also provides fairness to Members' ratepayers by spreading costs across generations and facilitating moderate and consistent rate increases. In general, CIP funding sources include 1) Capital markets by issuing publicly traded revenue bonds; 2) government loans through SRF and WIFIA programs when available; and 3) cash that has been accrued by the Members Agencies.

This LRFP's recommendations and its outcomes are for planning purposes. SVCW believes it is a reasonable forecast of expenditures over the next year, including a well-informed position that SVCW will be able to access government loan programs from the SWRCB and the EPA. This LRFP therefore is useful for Member Agencies as they consider budgets and analyze their sewer rates.

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