

**COMMISSION OF SILICON VALLEY CLEAN WATER
JOINT POWERS AUTHORITY
REGULAR MEETING – Thursday, April 13, 2017
4:00 p.m.**

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

COMMISSIONERS

MAYOR JOHN SEYBERT, REDWOOD CITY – CHAIR

COUNCIL MEMBER WARREN LIEBERMAN, PhD., BELMONT – VICE CHAIR

BOARD PRESIDENT EDWARD MORITZ, WEST BAY SANITARY DISTRICT – ALTERNATE MEMBER

MAYOR ROBERT GRASSILLI, SAN CARLOS – SECRETARY

MANAGER: DANIEL T. CHILD

ATTORNEY FOR THE AUTHORITY: CHRISTINE C. FITZGERALD

CONTROLLER/TREASURER: KIMBRA MCCARTHY

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

February 28, 2017

2. Expenditure Update at Airport Property

Report / Discussion

D. Engineering Projects Status Update

March 2017

E. Commission Requested Staff-Level Action Items

6. MATTERS OF COMMISSION MEMBER'S INTEREST

7. CONSIDERATION OF MOTION APPROVING CONSENT CALENDAR

8. BUSINESS ITEMS

A. CONSIDERATION OF RESOLUTIONS CERTIFYING SVCW'S CONVEYANCE SYSTEM FINAL ENVIRONMENTAL IMPACT REPORT, ADOPTING FINDINGS AND MITIGATION MONITORING PROGRAM AND APPROVING PROJECT

Proposed Actions:

i. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION CERTIFYING THE FINAL ENVIRONMENTAL IMPACT REPORT PREPARED FOR THE SVCW WASTEWATER CONVEYANCE SYSTEM AND TREATMENT PLANT RELIABILITY IMPROVEMENT PROJECT (SCH# 2016022055) IN ACCORDANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT, AS AMENDED

ii. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION MAKING CERTAIN FINDINGS CONCERNING MITIGATION MEASURES AND ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM IN ACCORDANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT FOR THE SVCW WASTEWATER CONVEYANCE SYSTEM AND TREATMENT PLANT RELIABILITY IMPROVEMENT PROJECT (SCH# 2016022055) FOR WHICH AN ENVIRONMENTAL IMPACT REPORT HAS BEEN PREPARED, AND APPROVING THE PROJECT

B. CONSIDERATION OF RESOLUTION APPROVING PROGRESSIVE DESIGN-BUILD REQUEST FOR QUALIFICATIONS

Proposed Action: Move adoption of RESOLUTION APPROVING REQUEST FOR QUALIFICATIONS PROCUREMENT DOCUMENTS IN CONNECTION WITH THE WASTEWATER CONVEYANCE SYSTEM AND TREATMENT PLANT RELIABILITY IMPROVEMENT PROJECT AND AUTHORIZE MANAGER TO ISSUE REQUEST FOR QUALIFICATIONS TO INTERESTED DESIGN-BUILD ENTITIES

C. CONSIDERATION OF MOTIONS APPROVING TASK ORDERS FOR WASTEWATER TREATMENT PLANT AND CONVEYANCE SYSTEM RELIABILITY IMPROVEMENT PROJECTS GRAVITY PIPELINE AND FRONT OF PLANT

Proposed Actions:

- i. Move approval of TASK ORDER SCOPE AND BUDGET FOR OPERATIONAL CONSULTING SERVICES DURING DESIGN-BUILD IN AN AMOUNT OF \$2.16 MILLION AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – WATER ENVIRONMENTAL TECHNICAL CONSULTING
- ii. Move approval of TASK ORDER SCOPE AND BUDGET FOR ELECTRICAL, INSTRUMENTATION, AND AUTOMATION CONSULTING SERVICES DURING DESIGN-BUILD IN AN AMOUNT OF \$2.16 MILLION AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – TECHNICAL EDGE
- iii. Move approval of TASK ORDER SCOPE AND BUDGET FOR LEGAL SERVICES FOR DESIGN-BUILD IN AN AMOUNT OF \$460 THOUSAND AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – HANSON BRIDGETT

D. CONSIDERATION OF MOTION APPROVING TASK ORDER AMENDMENT FOR FRONT OF PLANT SITE SOIL STABILIZATION

Proposed Action: Move approval of AMENDMENT TO TASK ORDER 2016-05 SCOPE AND BUDGET FOR FRONT OF PLANT SOILS STABILIZATION IN AN AMOUNT NOT TO EXCEED \$46,740 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – FREYER & LAURETA, INC.

E. CONSIDERATION OF RESOLUTIONS APPROVING FISCAL YEAR 2017-18 ANNUAL OPERATING AND CAPITAL EXPENDITURES BUDGET

Proposed Actions:

- i. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION ADOPTING FISCAL YEAR 2017-18 REVENUE PLAN IN THE AMOUNT OF \$23,291,325 IN NET OPERATING REVENUES REQUIRED AND \$1,546,000 FOR REVENUE-FUNDED CAPITAL PROJECTS
- ii. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION ADOPTING FISCAL YEAR 2017-18 CASH RESERVE DESIGNATIONS IN THE AMOUNT OF \$2,030,298
- iii. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION ADOPTING FISCAL YEAR 2017-18 DEBT SERVICE EXPENDITURES IN AN AMOUNT OF \$12,347,586
- iv. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION AUTHORIZING SVCW MANAGER TO IMPLEMENT, MANAGE AND APPROVE EXPENDITURES AUTHORIZED WITHIN THE FISCAL YEAR 2017-2018 ANNUAL OPERATING AND CAPITAL EXPENDITURES BUDGET AS ADOPTED BY THE SILICON VALLEY CLEAN WATER COMMISSION

9. CLOSED SESSION

A. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION

Pursuant to Government Code §54956.9(d)(1)

Case Name: *In the Matter of the Calculation of Final Compensation of David A. Hall, Respondent, and Silicon Valley Clean Water, Respondent* (Board of Administration, California Public Employees' Retirement System, Agency Case No. 2015-1236 OAH NO. 2016030664)

B. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Government Code §54956.9 (12 potential cases): CalPERS' Determination to Exclude Performance Pay from Retirement Benefit Calculations and Opportunity to Appeal Determination

C. PUBLIC EMPLOYEE PERFORMANCE EVALUATION (Government Code §54957)

Title: Manager

10. RECONVENE IN OPEN SESSION – Announce action taken in Closed Session, if any.

11. ADJOURN

CONSENT CALENDAR

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 – March 23, 2017
- B. CONSIDERATION OF MOTION APPROVING CLAIMS AND CHECKS DATED FEBRUARY 25, 2017 AND NECESSARY PAYMENTS THROUGH MARCH 31, 2017

- C. CONSIDERATION OF MOTION APPROVING TASK ORDER FOR OWNERS ADVISORY SERVICES FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE 2

Proposed Action: Move approval of TASK ORDER SCOPE OF WORK AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENTS –PHASE 2 PROJECT (CIP #9186, 9189, 9084, 9120, 9197 AND 9224) IN AN AMOUNT NOT TO EXCEED \$445,450 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – KENNEDY/JENKS CONSULTANTS

- D. CONSIDERATION OF MOTIONS RECEIVING UPDATE ON ENERGY STORAGE EVALUATION AND AUTHORIZING SVCW MANAGER TO SUBMIT A LETTER OF INTENT WITH ENERGY FIRMS


Proposed Actions:

- i. Move approval AUTHORIZING MANAGER TO ISSUE LETTER OF INTEREST FOR ENERGY STORAGE SYSTEM – AMS
- ii. Move approval AUTHORIZING MANAGER TO ENTER INTO PROJECT DEVELOPMENT AGREEMENT FOR SOLAR PHOTOVOLTAIC ENERGY PRODUCTION – OPTERRA

SAFETY MOMENT


SPRING CLEANING TIPS

Freshening up your home for spring? These easy projects will help you stay safe and help save big on your energy bill.




Together, Building
A Better California

KITCHEN




Clean oven and range
A range or oven darkened from heavy use absorbs more heat, reducing its efficiency.




Vacuum refrigerator coils
Dust that builds up on refrigerator coils can cause the motor to work harder, using more energy.

OUTDOORS




Have solar panels cleaned
Having panels cleaned once a year can help maintain their output potential.


Call 811
Locate underground utility lines before digging any holes in the yard.



HALLWAYS




Clean or replace HVAC filters
A dirty filter will slow air flow and cause your system to use more energy.




Replace smoke and carbon monoxide detector batteries
Replace batteries in all detectors at least once a year.


GARAGE



Move flammables
Clear away flammable materials and liquids from gas furnaces.

Clean out dryer ducts
Blocked dryer ducts make your machine work harder than necessary.





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SILICON VALLEY CLEAN WATER
INVESTMENT LISTING
February 28, 2017

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
Annual OPS and CAP Budget Reserve								
CLARK CNTY NEV FOR ISSUES DTD GO BDS	AA+	07/01/2017	4.300%	1.32	50,000	50,570	50,706	668
FEDERAL HOME LN MTG CORP PARTN CTF	N.A.	03/01/2018	5.000%	1.36	55,653	56,229	57,653	765
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2020	5.000%	1.91	63,755	65,099	67,262	1,243
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	1.46	60,000	61,400	62,204	899
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	1.72	30,000	29,564	30,417	508
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/08/2017	5.400%	0.80	50,000	50,684	51,131	406
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/08/2017	3.125%	0.88	85,000	86,504	86,877	761
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/09/2017	1.125%	0.56	100,000	100,119	100,213	558
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/17/2018	1.950%	1.18	100,000	101,262	101,916	1,191
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/09/2018	0.818%	0.65	50,000	50,102	49,959	325
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/09/2018	4.625%	1.03	125,000	129,741	131,704	1,338
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	1.46	50,000	53,431	53,165	780
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/13/2019	4.500%	1.47	100,000	107,625	109,819	1,586
FEDERAL HOME LN MTG CORP	AA+	07/25/2017	1.000%	0.71	50,000	50,069	50,035	354
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	1.66	30,000	29,900	30,440	496
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	1.70	30,000	29,761	30,355	506
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	1.82	30,000	29,527	30,323	537
FEDERAL NATL MTG ASSN	AA+	11/27/2018	1.625%	1.26	60,000	60,445	60,913	762
FEDERAL NATL MTG ASSN GTD REMIC	NR	09/25/2019	2.171%	1.78	150,000	150,425	151,969	2,684
FEDERAL NATL MTG ASSN	AA+	09/25/2020	1.750%	1.87	100,000	99,363	100,935	1,860
FEDERAL HOME LN MTG CORP MULTICLASS	NR	11/25/2019	1.869%	1.81	130,000	130,139	129,817	2,358
FEDERAL HOME LN MTG CORP	AA+	05/12/2017	1.250%	0.60	95,000	95,124	95,305	571
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	1.33	30,000	30,256	30,630	404
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	1.45	30,000	29,827	30,232	433
FEDERAL HOME LN MTG CORP MULTICLASS	N.A.	04/15/2020	4.000%	1.81	36,654	37,487	37,753	677
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2019	5.500%	1.83	53,295	55,315	56,360	1,012
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	03/01/2020	5.500%	1.60	33,249	33,702	34,454	539
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2020	5.000%	1.92	31,933	33,303	33,709	639
GNMA II PASSTHRU CTF POOL #003421	N.A.	08/20/2018	4.500%	1.68	21,191	21,514	22,200	361
GENERAL ELEC CAP CORP MTN	A+	08/07/2018	1.304%	1.21	75,000	75,226	74,771	912
IOWA FIN AUTH REV ST REVOLVING FD	AAA	08/01/2018	3.280%	1.19	50,000	51,395	51,280	612
MCDONALDS CORP MED TERM NT FR	BBB+	10/15/2017	5.800%	1.35	25,000	25,691	26,162	347
NORTH ST PAUL MAPLEWOOD MINN I GO	AA	02/01/2018	5.000%	1.18	50,000	51,704	51,588	609
OREGON ST GO ENERGY BDS 2006 B AMT	AA+	10/01/2017	4.000%	0.65	100,000	100,177	100,000	655
SAN LUIS ARIZ PLEDGED EXCISE T REV	N.A.	07/01/2017	2.000%	1.66	50,000	50,022	50,000	831
SMALL BUSINESS ADMIN GTD LN POOL	N.A.	02/25/2019	3.575%	1.82	40,911	41,248	42,451	752
U S BANCORP MTNS BK ENT FR	AA-	11/15/2018	1.950%	1.60	50,000	50,371	50,101	806
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	1.47	50,000	50,190	49,640	738
WELLS FARGO & CO NEW SR GLBL NT	A+	12/11/2017	5.625%	1.42	50,000	51,591	51,986	733
WYETH NT	AA-	04/01/2017	5.450%	1.03	50,000	50,174	51,088	518
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	1.15	80,000	79,399	80,000	912
MONTGOMERY CNTY MD CTF PARTN COPS	N.A.	11/01/2019	1.200%	1.81	100,000	98,498	100,058	1,783
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.28	100,000	102,008	105,211	2,324
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	2.35	100,000	102,374	105,266	2,403
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	1.85	110,000	116,784	118,630	2,163
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	1.62	80,000	79,853	80,000	1,296
FEDERAL HOME LN MTG CORP	AA+	10/28/2019	1.625%	1.62	220,000	219,518	219,923	3,563
CASH & EQUIVALENTS	-	-	-	0.51	-	222,677	222,677	1,136
Annual OPS and CAP Budget Reserve Total						\$ 3,477,382	\$ 3,509,285	\$ 48,311

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Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
Capital Improvement Program Reserve								
APPLE INC SR FLT NT	AA+	02/07/2020	1.288%	1.23	100,000	100,000	99,821	1,227
BERGEN CNTY N J TAXABLE GO BDS 2008	N.A.	11/01/2019	6.000%	1.48	100,000	107,743	108,630	1,596
BERKSHIRE HATHAWAY FIN CORP GTD SR	AA	05/15/2018	5.400%	1.46	100,000	104,587	105,817	1,525
CALIFORNIA ST GO BDS TAXABLE	AA-	10/01/2019	6.200%	2.02	100,000	111,428	112,015	2,250
CHEVRON CORPORATION SR NT	AA-	03/03/2019	4.950%	1.72	100,000	106,470	107,275	1,836
CISCO SYS INC SR GLBL NT	A+	01/15/2020	4.450%	1.92	125,000	133,958	134,279	2,569
CLARK CNTY NEV FOR ISSUES DTD GO BDS	AA+	07/01/2017	4.300%	1.32	25,000	25,285	25,353	334
COLGATE PALMOLIVE CO MTNS FR	AA-	11/01/2018	1.500%	1.35	100,000	100,338	100,322	1,354
COOKEVILLE TENN GO INDUSTRIAL AND	N.A.	06/01/2017	3.000%	1.52	100,000	100,409	100,904	1,525
EXXON MOBIL CORP SR FLT NT	AA+	03/15/2019	1.113%	1.12	100,000	100,078	99,935	1,124
FEDERAL HOME LN MTG CORP PARTN CTF	N.A.	03/01/2018	5.000%	1.36	18,711	18,905	19,384	257
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2019	5.000%	1.82	63,872	65,196	67,345	1,187
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	1.46	340,000	347,932	346,474	5,094
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	1.72	100,000	98,546	101,391	1,693
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	12/01/2017	2.500%	1.04	500,000	506,375	507,765	5,266
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/05/2018	4.500%	1.08	500,000	514,550	517,528	5,573
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/22/2017	5.000%	1.08	25,000	25,602	26,032	277
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/22/2018	5.050%	1.16	20,000	21,023	21,072	244
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/06/2020	5.300%	1.77	450,000	500,004	505,310	8,870
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/29/2017	4.750%	0.96	500,000	511,735	519,018	4,923
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/03/2019	5.320%	1.58	50,000	54,780	55,485	867
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	02/27/2018	4.670%	1.00	450,000	466,520	466,313	4,651
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/08/2017	2.250%	0.72	250,000	251,973	253,238	1,822
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	1.60	60,000	62,482	63,318	1,000
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/08/2017	2.625%	0.96	500,000	506,870	508,420	4,866
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/08/2017	3.125%	0.88	25,000	25,442	25,552	224
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/09/2017	1.125%	0.56	30,000	30,036	30,064	167
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	1.48	250,000	250,925	250,000	3,719
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	1.48	60,000	65,282	65,302	967
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	4.625%	1.73	200,000	217,228	219,188	3,762
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/05/2017	5.250%	0.76	500,000	505,950	511,280	3,840
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/14/2018	3.750%	1.28	250,000	260,953	262,078	3,348
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	1.46	25,000	26,715	26,583	390
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	4.125%	1.55	125,000	133,920	136,268	2,073
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	1.54	700,000	752,486	758,907	11,603
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	1.59	100,000	100,265	102,006	1,590
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	1.66	50,000	49,834	50,733	826
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	1.70	50,000	49,602	50,592	843
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	1.71	325,000	326,742	333,132	5,584
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	1.82	100,000	98,424	101,077	1,789
FEDERAL NATL MTG ASSN	AA+	11/27/2018	1.625%	1.26	150,000	151,113	152,282	1,906
FEDERAL HOME LN MTG CORP MULTICLASS	NR	06/25/2020	3.531%	2.02	100,000	104,523	106,188	2,109
FEDERAL HOME LN MTG CORP	AA+	06/13/2018	4.875%	1.02	115,000	120,590	121,538	1,235
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	1.29	500,000	525,065	528,243	6,789
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	1.33	50,000	50,427	51,051	673
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	1.45	50,000	49,711	50,386	722
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	05/01/2018	3.840%	2.36	250,000	254,623	266,641	6,009
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	2.680%	1.98	474,580	482,192	494,304	9,547
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	1.940%	1.91	466,758	467,719	471,134	8,933
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	5.000%	1.81	77,064	79,227	81,230	1,434
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	2.07	254,945	271,532	282,830	5,621
INTERNATIONAL BUSINESS MACHS SR GLBL	AA-	02/06/2018	1.224%	1.04	100,000	100,207	99,977	1,046
IOWA FIN AUTH REV ST REVOLVING FD	AAA	08/01/2018	3.280%	1.19	25,000	25,698	25,640	306
MICROSOFT CORP NT	AAA	06/01/2019	4.200%	1.53	100,000	105,986	105,783	1,626
MONONA WIS TAXABLE PROM NTS 2015B	N.A.	06/01/2020	3.250%	2.45	100,000	102,269	102,438	2,509
NEW YORK N Y GOBDS 2011 C TAXABLE	AA	10/01/2018	3.480%	1.98	100,000	103,038	102,992	2,039
OHIO ST GO BDS 2009 C TAXABLE	AA+	03/01/2018	4.371%	1.27	100,000	103,194	104,247	1,307
ORACLE CORP SR FLT NT	A+	07/07/2017	1.209%	1.03	25,000	25,027	25,042	257
OREGON ST GO ENERGY BDS 2006 B AMT	AA+	10/01/2017	4.000%	0.65	25,000	25,044	25,000	164
PASADENA CALIF PUB FING AUTH L LEASE	AA	03/01/2018	4.224%	1.66	25,000	25,612	25,739	425
TENNESSEE VALLEY AUTH GLBL PWR 07A	AA+	07/18/2017	5.500%	0.61	50,000	50,922	51,141	311
TENNESSEE VALLEY AUTH PWR BD 2008 B	AA+	04/01/2018	4.500%	1.09	500,000	518,285	524,868	5,649
WAL MART STORES INC SR GLBL NT	AA	04/05/2017	5.375%	0.57	100,000	100,464	102,239	571
WELLS FARGO & CO NEW SR GLBL NT	A+	12/11/2017	5.625%	1.42	25,000	25,796	25,993	366
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	1.15	100,000	99,249	100,000	1,139
MONTGOMERY CNTY MD CTF5 PARTN COPS	N.A.	11/01/2019	1.200%	1.81	100,000	98,498	100,058	1,783
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.28	100,000	102,008	105,211	2,324
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	2.33	100,000	100,562	103,394	2,340
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	11/01/2020	3.410%	2.23	118,656	123,569	127,110	2,756
GILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	2.31	100,000	101,021	104,247	2,329

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Broker/Dealer	Composite	Coupon	Yield to				Estimated
Investment Name	Credit	Maturity	Rate	Maturity	Par Value	Market Value	Annual \$ Yield
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	2.35	100,000	97,826	100,150
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	2.35	225,000	230,342	236,849
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	1.85	165,000	175,176	177,944
FEDERAL NATL MTG ASSN	AA+	05/26/2021	1.800%	1.98	260,000	257,850	260,000
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	1.62	260,000	259,522	260,000
FEDERAL HOME LN MTG CORP	AA+	12/30/2020	1.750%	2.02	340,000	339,106	340,000
FEDERAL HOME LN MTG CORP	AA+	10/28/2019	1.625%	1.62	600,000	598,686	599,790
FEDERAL HOME LN MTG CORP	AA+	10/28/2020	2.000%	1.98	400,000	398,980	400,000
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/30/2021	2.250%	2.25	180,000	180,005	180,000
CASH & EQUIVALENTS	-	-	-	0.51	-	547,635	547,635
Capital Improvement Program Reserve Total						\$ 15,414,887	\$ 15,564,510
							\$ 228,435

Stage 2 Capacity Reserve

BERKSHIRE HATHAWAY FIN CORP GTD SR	AA	05/15/2018	5.400%	1.46	100,000	104,587	105,806	1,525
CEDAR PARK TEX CTFB OBLIG TAXABLE	AA	08/15/2018	5.280%	1.72	50,000	52,723	52,469	906
CISCO SYS INC SR GBLB NT	A+	01/15/2020	4.450%	1.92	75,000	80,375	80,567	1,542
CLARK CNTY NEV FOR ISSUES DTD GO BDS	AA+	07/01/2017	4.300%	1.32	100,000	101,139	101,411	1,335
CONOCOPHILLIPS NT	BBB+	05/15/2018	5.200%	1.70	50,000	52,113	52,666	887
COOKEVILLE TENN GO INDUSTRIAL AND	N.A.	06/01/2017	3.000%	1.52	100,000	100,409	100,904	1,525
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2019	5.000%	1.82	63,872	65,196	67,345	1,187
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	11/01/2020	4.500%	1.78	58,007	59,354	60,472	1,056
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	1.46	100,000	102,333	103,674	1,498
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	1.72	100,000	98,546	101,391	1,693
FEDERAL HOME LOAN BKS CONS BDS	NR	06/29/2018	0.875%	1.11	100,000	99,755	100,107	1,110
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	05/15/2018	4.500%	1.16	100,000	104,060	104,616	1,208
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/29/2017	4.750%	0.96	250,000	255,868	259,365	2,461
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/28/2018	4.780%	1.29	55,000	58,099	58,600	748
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/08/2017	2.250%	0.72	250,000	251,973	253,238	1,822
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	1.60	60,000	62,482	63,318	1,000
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/08/2017	3.125%	0.88	100,000	101,769	102,208	896
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/09/2017	1.125%	0.56	100,000	100,119	100,213	558
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	1.48	200,000	200,740	200,000	2,975
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/09/2018	0.818%	0.65	50,000	50,102	49,959	325
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	1.48	50,000	54,402	54,418	806
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/09/2018	4.625%	1.03	75,000	77,845	79,022	803
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	1.46	100,000	106,861	106,330	1,559
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	1.54	125,000	134,373	135,376	2,072
FEDERAL HOME LN MTG CORP	AA+	07/25/2017	1.000%	0.71	100,000	100,137	100,070	708
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	1.59	100,000	100,265	102,006	1,590
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	1.66	100,000	99,668	101,466	1,652
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	1.70	100,000	99,203	101,183	1,686
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	1.71	175,000	175,938	179,379	3,007
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	1.82	100,000	98,424	101,077	1,789
FEDERAL NATL MTG ASSN	AA+	01/14/2019	3.275%	1.36	100,000	103,707	103,404	1,406
FEDERAL HOME LN MTG CORP MULTICLASS	NR	10/25/2020	2.788%	1.88	72,909	73,935	74,732	1,390
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	1.29	250,000	262,533	264,046	3,395
FEDERAL HOME LN MTG CORP	AA+	05/12/2017	1.250%	0.60	55,000	55,072	55,177	330
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	1.33	100,000	100,854	102,101	1,345
FEDERAL HOME LN MTG CORP	AA+	08/01/2019	1.250%	1.41	100,000	99,582	101,099	1,399
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	1.45	100,000	99,422	100,772	1,444
FEDERAL HOME LN MTG CORP	AA+	04/09/2018	0.750%	1.05	100,000	99,711	99,836	1,050
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	05/01/2018	3.840%	2.36	200,000	203,698	213,313	4,807
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2020	4.000%	1.95	100,442	103,494	105,244	2,018
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	2.07	213,238	227,111	236,561	4,701
GARNER N C GO PUB IMPT BDS TAXABLE	AA	02/01/2018	3.050%	1.35	50,000	50,812	50,791	686
GENERAL ELEC CAP CORP MTN	A+	08/07/2018	1.304%	1.21	100,000	100,301	99,695	1,217
IOWA FIN AUTH REV ST REVOLVING FD	AAA	08/01/2018	3.280%	1.19	100,000	102,790	102,559	1,224
JPMORGAN CHASE & CO SR NT	A-	03/01/2021	2.550%	2.53	50,000	50,169	51,202	1,267
LANCASTER CNTY NEB SCH DIST NO SCH	AA	01/15/2021	4.550%	2.58	50,000	53,740	55,181	1,388

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Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Estimated Annual \$ Yield	
							Cost	Earnings
MCDONALDS CORP MED TERM NT FR	BBB+	10/15/2017	5.800%	1.35	50,000	51,382	52,324	694
NORFOLK VA GO CAP IMPT BDS 2010 B	AA	03/01/2019	4.650%	1.94	100,000	106,274	106,524	2,065
NORTH ST PAUL MAPLEWOOD MINN I GO	AA	02/01/2018	5.000%	1.18	100,000	103,407	103,176	1,217
OREGON ST GO ENERGY BDS 2006 B AMT	AA+	10/01/2017	4.000%	0.65	100,000	100,177	100,000	655
SAN LUIS ARIZ PLEDGED EXCISE T REV	N.A.	07/01/2017	2.000%	1.66	100,000	100,044	100,000	1,662
TENNESSEE VALLEY AUTH PWR BD 2008 B	AA+	04/01/2018	4.500%	1.09	200,000	207,314	209,766	2,260
U S BANCORP MTNS BK ENT FR	AA-	11/15/2018	1.950%	1.60	100,000	100,741	100,201	1,613
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	1.47	50,000	50,190	49,640	738
WELLS FARGO & CO NEW SR GLBL NT	A+	12/11/2017	5.625%	1.42	100,000	103,182	103,971	1,465
WYETH NT	AA-	04/01/2017	5.450%	1.03	50,000	50,174	51,088	518
XTO ENERGY INC SR NT	AA+	06/15/2018	5.500%	1.50	100,000	105,123	106,117	1,579
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	1.15	200,000	198,498	200,000	2,279
MONTGOMERY CNTY MD CTFS PARTN COPS	N.A.	11/01/2019	1.200%	1.81	100,000	98,498	100,058	1,783
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	2.33	150,000	150,843	155,091	3,510
GILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	2.31	150,000	151,532	156,371	3,493
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	2.35	100,000	97,826	100,150	2,299
FEDERAL HOME LN MTG CORP	AA+	08/25/2021	1.250%	2.06	90,000	88,305	90,000	1,823
METRO WASTEWTR RECLAMATION DIS REV	AA+	04/01/2019	4.718%	1.96	100,000	106,453	108,949	2,083
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	1.85	55,000	58,392	59,315	1,081
FEDERAL HOME LN MTG CORP	AA+	03/30/2021	1.500%	1.88	60,000	58,180	60,000	1,096
FEDERAL HOME LN MTG CORP	AA+	09/30/2021	1.050%	2.49	100,000	97,827	99,900	2,433
FEDERAL NATL MTG ASSN	AA+	09/30/2019	1.250%	1.48	60,000	59,519	59,985	883
FEDERAL NATL MTG ASSN	AA+	05/26/2021	1.800%	1.98	60,000	59,504	60,000	1,176
FEDERAL HOME LN MTG CORP	AA+	12/30/2020	1.750%	2.02	100,000	99,737	100,000	2,013
FEDERAL HOME LN MTG CORP	AA+	10/28/2019	1.625%	1.62	200,000	199,562	199,930	3,239
FEDERAL HOME LN MTG CORP	AA+	10/28/2020	2.000%	1.98	130,000	129,669	130,000	2,565
CASH & EQUIVALENTS	-	-	-	0.51	-	1,516,321	1,516,321	7,733
Stage 2 Capacity Reserve Total						\$ 9,184,456	\$ 9,273,240	\$ 124,951
Subtotal, Bank of the West						\$ 28,076,724	\$ 28,347,035	\$ 401,698
California Local Agency Investment Fund						\$ 4,405,173	\$ 4,405,173	\$ 34,228
TOTAL UNRESTRICTED INVESTMENTS						\$ 32,481,897	\$ 32,752,208	\$ 435,926
Bank of New York (Trustee)								
2008 Reserve Account - Morgan Stanley Treas Sec X9USDMORS	-	0.000%	-	-	11	11	-	-
2008 Revenue Account - Morgan Stanley Treas Sec X9USDMORS	-	0.000%	-	-	4	4	-	-
2008 Interest Account - Morgan Stanley Treas Sec X9USDMORS	-	0.000%	-	-	4,324	4,324	-	-
2009 Reserve Account - Federal National Mortgage Assn 313G3Q73	Aaa	7/26/2019	1.150%	1.16	4,751,894	4,780,000	55,122	-
2009 Reserve Account - BMW BK North Amer Salt Lake 05580ACK8	Aa	7/24/2019	2.000%	1.98	151,419	150,000	2,998	-
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS	-	0.000%	-	-	71,086	71,086	-	-
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS	-	0.000%	-	-	62,656	62,656	-	-
2009 Revenue FD Account - Morgan Stanley Treas Sec X9USDMORS	-	0.000%	-	-	533	533	-	-
2014 Revenue Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	0.000%	-	-	425	425	-	-
2014 Revenue Account - Cash	-	0.000%	-	-	1	1	-	-
2014 Interest Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	0.000%	-	-	13	13	-	-
2014 Principal Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	0.000%	-	-	7	7	-	-
2014 Project Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	0.000%	-	-	3,256	3,255	-	-
2014 Project Account - Cash	-	0.000%	-	-	7	7	-	-
2014 COI Account - Goldman Sachs Fin Sq Instl X9USDGLD4	-	0.000%	-	-	5,134	5,133	-	-
2014 COI Account - Cash	-	0.000%	-	-	10	10	-	-
2015 Project Account - LAIF	-	0.000%	0.777	-	5,292,802	5,292,802	41,125	-
2015 Project Account - JP Morgan Prime MMKT Instl X9USDJPMP	-	0.000%	-	-	210	210	-	-
2015 Project Account - Cash	-	0.000%	-	-	2	2	-	-
2015 Revenue Account - JP Morgan Prime MMKT Instl X9USDJPMP	-	0.000%	-	-	163	163	-	-

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Broker/Dealer	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
Investment Name								
2008 Escrow Account - United States Treasury Notes 912828NR7	Aaa	7/31/2017	2.375%	2.36		7,542,355	7,715,749	178,000
2008 Escrow Account - Cash		-	0.000%	-		581	581	-
2009 Escrow - United States Treasury 912828XP0	Aaa	7/31/2017	0.625%	0.63		596,863	596,728	3,760
2009 Escrow - United States Treasury 912828UJ7	Aaa	1/31/2018	0.875%	0.88		598,790	599,629	5,269
2009 Escrow - Resolution Funding Corp Interest Strip 76116EFS4	Aaa	7/15/2018	0.000%	-		332,913	329,183	-
2009 Escrow - United States Treasury 912828VQ0	Aaa	7/31/2018	1.375%	1.37		264,191	265,978	3,619
2009 Escrow - United States Treasury 912828B33	Aaa	1/31/2019	1.500%	1.49		606,250	610,349	9,033
2009 Escrow - Tunisia Government Aid Bonds 066716AG6	Aaa	7/16/2019	1.686%	1.69		40,217,375	40,944,692	679,674
2009 Escrow - Cash		-	0.000%	-		2,626	2,626	-
Subtotal, Bank of New York (Trustee)						\$ 60,505,901	\$ 61,436,156	\$ 978,600
Less Amounts held in Escrow for 2008 and 2009 Bond Defeasance						\$ (50,161,945)	\$ (51,065,514)	\$ (879,355)
Net Total, Bank of New York (Trustee)						\$ 10,343,956	\$ 10,370,642	\$ 99,245
Uninvested Operating Cash						1,822,257	1,822,257	-
TOTAL CASH & INVESTMENTS, UNRESTRICTED AND WITH TRUSTEE						\$ 44,648,110	\$ 44,945,106	535,172
							Weighted Average Yield to Maturity %	1.19%

Summary by Investment Type:	Market Value
US Treasuries	\$ 138,614
Agencies	23,717,238
Commercial Paper / Corporate Bonds	2,659,310
Municipal Bonds / Notes	4,316,857
Money Market / Certificates of Deposit	4,118,117
Local Agency Investment Fund	9,697,975
TOTAL	\$ 44,648,110

Summary by Purpose / Restriction Level	Market Value
Working Capital	\$ 6,227,430
Operations & Capital Budget Reserve	3,477,382
Capital Improvement Program Reserve	15,414,887
Stage 2 Capacity Reserve	9,184,456
Debt Reserve	5,050,780
Debt Proceeds	5,293,176
TOTAL	\$ 44,648,110

Summary by Liquidity:	Market Value
0-1 years	\$ 39,744,798
1-2 years	-
2-3 years	4,903,313
3-5 years	-
TOTAL	\$ 44,648,110

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.


M. Anderson

**UPDATE REGARDING EXPENDITURES ASSOCIATED WITH THE TUNNEL
PROJECT SHAFT CONSTRUCTION SITE LOCATED ON AIRPORT PROPERTY**

ISSUE

Provide an update on the costs associated with the Tunnel Project Shaft Construction Site located on Airport Property. This is a report only with no action required.

BACKGROUND

The current Conveyance System Program anticipates using a tunnel and gravity pipeline to convey the wastewater flow from the member agencies' service areas to the treatment plant. Construction of the tunnel will require two receiving shafts and one launch shaft. The two receiving shafts are located at areas accessible to SVCW into the foreseeable future; one at the treatment plant and one at the northern end of Inner Bair Island. In contrast, the launch shaft will be located on airport property near the San Carlos Airport owned by San Mateo County. During the project development phase for the Environmental Impact Report preparation, SVCW learned that San Mateo County was planning to construct permanent buildings at their property and to lease those buildings to offset airport operating costs. It was necessary for SVCW to secure this unique and critical location to ensure that the tunnel option remains a viable project alternative. To that end, the Commission authorized execution of a long-term Permit with San Mateo County for use of the property on May 14, 2015. SVCW currently pays \$97,300 a month for the airport property. The property is raw land with a single gate access off Shoreway Road near Holly Street.

DISCUSSION

To help offset the lease costs of the property, staff has thus far secured two sub-permit tenant(s) willing to use the area on a temporary basis prior to start of the tunnel construction. One tenant temporarily staged equipment on site for four months, and a current tenant has similarly staged equipment for seven months.

In June 2016, the Commission approved \$210 thousand in site improvements, though this work will not occur until SVCW secures a tenant that would pay significantly more rent income. It should be noted that construction of the future tunneling project will require similar surface improvements and are not considered sunk costs.

FINANCIAL IMPACT

To date, retaining the tunnel shaft construction site at the airport property has cost a net \$2 million. Until construction commences (currently scheduled for summer 2018), staff will continue to seek more revenue opportunities.

Net Expenditures - Tunnel Shaft Site Property Lease			
Description	2015-16 Fiscal Year	2016-17 thru Feb	To date
Expenditures	\$ 1,264,900	\$ 778,400	\$ 2,043,300
Revenues	-	(35,000)	(35,000)
Net Expenditures	\$ 1,264,900	\$ 743,400	\$ 2,008,300

**ENGINEERING REPORT: MARCH 2017
CAPITAL IMPROVEMENT PROGRAM IMPLEMENTATION**

Conveyance System Program Planning (6006): Perform environmental review of conveyance system alternatives and planning for various program elements.

The project team has performed detailed in-depth analysis of alternatives for the entire conveyance system. After developing and evaluating many alternatives, and receiving consent from the Commission to pursue Alternative 4BE by initiating CEQA for this alternative, the project team is moving forward with the environmental review phase of the program. The Draft EIR was completed and circulated on November 29, 2016. A presentation was provided to the Commission in December 2016. A public meeting was held on December 14; four people attended. Comments on the DEIR were due on January 13. Staff and consultants have completed the Final EIR for presentation to the Commission with a request to certify the EIR at the April meeting. Additional actions that will be requested are adoption of the associated Mitigation Monitoring and Reporting Program outlined in the EIR and project approval.

Planned Commission Actions: Certify EIR – April 2017
Adopt Findings, including MMRP – April 2017
Approve Project – April 2017

Conveyance System Program Project Delivery (6006): Evaluate possible and preferred methods for project delivery.

In January 2016, the Commission approved a policy outlining procedures for using the Design-Build method for project delivery. The Commission also provided direction to staff to prepare an RFQ for wastewater treatment plant projects that are good candidates for the design-build method of project delivery. Task orders were presented at the January 2017 Commission meeting for approval of Owner's Advisor (OA) services to prepare Requests for Qualifications (RFQs) and Requests for Proposals (RFPs) for Progressive Design-Build delivery of two of the Conveyance System Projects. The RFQ will be ready for issuance upon certification of the EIR and project approval.

Planned Commission Actions: Approve Procurement Documents – April 2017
Authorize Issuance of RFQ – April 2017
Authorize Consultant Task Orders – April 2017

Wastewater Treatment Plant Improvements Phase 2 (9186, 9189, 9084, 9120, 9197, 9224): Rehabilitation and/or replacement of six treatment plant mechanical processes.

Staff has submitted an application to the State Water Resources Control Board for purposes of obtaining a loan for a number of wastewater treatment plant

improvements. Previously, a loan was obtained for Phase 1 of the WWTP improvements; the submitted projects comprise Phase 2. SVCW staff are pursuing alternative funding sources which may be needed if SRF funds are not appropriated. Six projects within Phase 2 would benefit by using the Design-Build process for implementation. To that end, a task order scope and budget was negotiated with an SVCW consultant to provide Owner's Advisor services. The task order will be presented to the Commission for approval.

Planned Commission Actions: Authorize Engineering Task Order – April 2017

Dual Media Filters 6A and 6B (9222): Outfit the remaining two Dual Media Filters, including coatings, underdrain system, filter media, air scour equipment, and associated valves and piping.

The DMF 6A and 6B project will provide reliability for wet weather events; currently wet weather flows are bypassed around the filters when storm flows reach approximately 60 to 65 MGD. Completion of this work will allow higher flow to be treated before it is necessary to divert some or all flow around the filters. The practice of diverting flow around the filters is currently allowed in SVCW's NPDES permit, but is expected to be deleted in upcoming permits. This work will duplicate the systems already installed in the ten active filters. The construction work is being performed by ERS with design assistance from Kennedy/Jenks.

Planned Commission Actions: Accept Project – May 2017

Effluent Pipeline Replacement Project (6012): Replace the effluent pipeline from where it exits the main structure to where it enters the San Francisco Bay.

The pipeline taking treated effluent to the bay for final discharge was found to be leaking and a project was awarded to Power Engineering to replace the pipeline in June 2015. Work has been ongoing since that time.

A method to protect the connection between the plant main structure and the HDPE pipeline needed to be designed as the project progressed, as it was not determined at the time the original project cost was developed. A change order was negotiated with the contractor to place a concrete bridge around the connection point to protect the pipe from unnecessary loads. Work is nearing completion on this critical project.

Planned Commission Actions: Accept Project – May 2017

Menlo Park Pump Station and Redwood City Pump Station Valve Replacement Project (Capital Project 262 and 263): Replace major valves at Menlo Park and Redwood City Pump Stations

The Maintenance Department has identified that replacement of valves at Menlo Park and Redwood City Pump Stations is necessary to keep the pump stations reliable over the next 5 – 7 years, until they are rehabilitated/replaced. Due to the

lead time on the valves, the Commission approved the procurement of the valves and installation will be performed under two separate contracts expected to be presented at the May Commission meeting.

Planned Commission Actions: Award Installation Contract – May 2017

Thickening Improvements – Phase 1 (9168): Procure and install two rotary drum thickeners to thicken primary sludge.

The SVCW plant is currently being operated with two gravity thickeners. In September 2015, the Commission authorized a task order for the design of the rehabilitation of the thickeners. The construction cost estimate that was provided by the designer exceeded the budget of the project, so it was deferred. The decision was made to run the existing thickeners until they almost fail and then replace them with rotary drum thickeners. The gravity thickeners experienced a significant failure in February 2017 and replacement technology needs to be pursued.

Planned Commission Actions: Approve Installation Contract – June 2017

SVCW Capital Improvement Program
Actual Expenditure vs. Plan
Through February 28, 2017

Project Phase	Project Count	Amended 2015 CIP Update	Actual Spent thru February 2017	\$ Unspent/ Remaining	% Unspent/ Remaining
Completed	103	\$ 139,194,565	\$ 137,315,971	\$ 1,878,594	1.3%
In Construction	29	75,997,343	61,417,428	14,579,916	19.2%
Planning & Design	35	461,274,545	26,292,753	434,981,792	94.3%
Other	33	136,483,183	5,204,402	131,278,781	96.2%
TOTAL	200	* \$ 812,949,637	\$ 230,230,553	\$ 582,719,083	71.7%

* Consistent with the January 2017 Long Range Financial Plan, project cost estimates were increased by the construction cost index as provided by Engineering News Record.

**SVCW Capital Improvement Program
CIP Project Status - COMPLETED**

14-Nov-16

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	2015 CIP Update (2015 \$s)	Actual Spent thru February 2017
Complete	6001	48-inch Force Main Reliability Improvement	Replace the entire length of 48-inch diameter section of force main from RCPS to SCPS. This project incorporated CIP #6005 which was deleted in the CIP Update.	\$ 2,539,400	\$ 43,060,000	\$ 40,000,000	\$ 41,204,050
Complete	6002	Conveyance System Master Plan (CSMP)	Planning for replacement and/or repair of force main and all five pump stations, including screening at the treatment plant.	1,250,000	2,386,483	2,374,494	0
Complete	7010	Pump Stations Preliminary Design and CEQA	Prepare preliminary design (up to 30% design) for all pump station work including support for CEQA and SRF loan application	-	3,000,000	3,128,769	3,082,538
Complete	7013	Pump Stations Secondary Communications	Provide secondary communications for remote monitoring and control	-	-	51,900	33,289
Complete	8001	Central Data Acquisition Unit PLC System Upgrade	Central Data Acquisition Unit PLC System Upgrade; Replacement for Automation Program.	127,700	32,592	32,592	25,220
Complete	8002	Auto-reset of Effluent Pumps	Remote reset of effluent pumps after a power outage.	38,900	15,266	15,266	-
Complete	8003	Disinfection Area SCADA	Tie-in disinfection area to the SCADA network in conjunction with Hypochlorite project (9015)	16,100	-	-	-
Complete	8004	Install SCADA Servers	Purchase and install and program independent servers for SCADA use only.	170,200	163,002	91,040	91,040
Complete	8005	Install MCC PLC	Installation of MCC PLC in support of the Automation Program	214,900	209,226	209,225	202,370
Complete	8006	Turbine #1A-4B Air Flow Monitor	Combined with Activated Sludge Automation (CIP 8017)	160,900	-	-	-
Complete	8008	Aeration Basins #1-4 Motorized Effluent Gate Controls	Combined with Activated Sludge Automation (CIP 8017)	201,100	-	-	-
Complete	8009	Aeration Basins #1-4 Mudvalve Operation	Combined with Activated Sludge Automation (CIP 8017)	80,500	-	-	-
Complete	8010	WAS Flow Controls	Combined with Activated Sludge Automation (CIP 8017)	20,200	-	-	-
Complete	8011	RAS Pump #1-6 Speed Adjust	Combined with Activated Sludge Automation (CIP 8017)	360,600	-	-	-
Complete	8012	Secondary Clarifier Inner / Outer Gates Motorized Controls	Combined with Activated Sludge Automation (CIP 8017)	80,500	-	-	-
Complete	8013	WAS Pump #1-4 Speed Adjust	Combined with Activated Sludge Automation (CIP 8017)	244,400	-	-	-
Complete	8015	CCT Weir Sluice Gate Operator	Combined with Activated Sludge Automation (CIP 8017)	128,500	-	-	-
Complete	8017	Activated Sludge Process Automation (Aeration and Secondary Clarifiers).	Combine automation projects for processes related to Activated Sludge; this project is complete. Automates the activated sludge process.	4,411,400	8,428,965	7,474,051	7,473,607
Complete	8019	Aeration Basin Gate Actuators	Combined with Activated Sludge Automation (CIP 8017)	278,836	6,569	6,569	-
Complete	8020	Aeration Basin #1-4 Inlet Gate Controls	Combined with Activated Sludge Automation (CIP 8017)	80,500	-	-	-
Complete	8022	SCADA Process Graphics on Information Management System	Enable SCADA view and data across IMS Network to allow data views from remote locations (offsite)	103,500	107,041	62,936	62,936
Complete	8026	Septic System (Grease Receiving) Auto Controls and Level Measurement	Automatic controls tied into SCADA system for monitoring grease receiving station operation. Expenditures charged to CIP #9021	47,600	19,019	-	-
Complete	8027	Drying Bed Feed Flow Measurement	Install a new magnetic flow meter for measuring the amount of sludge discharged to drying beds.	54,100	6,232	6,232	0
Complete	8037	Automation System Integration - Bond Funded	Pulls out global automation programming tasks being completed by B&V into SRF or Bond funded categories.	-	620,260	646,883	637,048
Complete	9005	Primary Scum Grinders	Purchase and install 3 new grinders. Work was completed in house and via maintenance budget.	265,700	-	-	-
Complete	9006	Purchase Integrated Tool Vehicle	Eliminate need for rental. Purchase vehicle to facilitate access to decks with large equipment	104,000	79,502	81,992	81,992
Complete	9008	Centrifuge Motor Drive Replacement	Replace motor drive on centrifuge.	161,500	71,808	71,808	(0)
Complete	9010	Real-time Wind Direction Information	Monitor wind direction & speed; download to SCADA. Use for odor complaint documentation. Project complete.	19,000	1,633	1,633	-
Complete	9011	Portable Trash Pump	Replaces need to rent portable pump in response to flooding, overflows, and routine dewatering. Trailer-mounted, diesel driven 6" pump. Project complete.	-	-	37,859	37,859
Complete	9012	Digester #3 Rehabilitation and Upgrade	Repair digester for use as a primary digester. Clean digester, repair dome and skirt, slip-line bottom mix line.	1,811,400	3,415,426	3,792,600	3,792,600
Complete	9013	Waste Gas Burner Rehabilitation	Rehabilitate existing burners, including pilot and air flow monitoring equipment. Air permit required. Complete before re-roofing SHB	999,800	649,231	726,141	725,594
Complete	9016	High Pressure Air Piping and Instrument Air	Replace galvanized piping throughout the Plant used for compressed air delivery.	273,000	474,200	468,552	468,552
Complete	9018	Recycled Water For In-Plant Use	Utilize recycled water for sprinkler system in new administration building as well as other in-plant uses.	807,300	556,934	585,790	585,790
Complete	9019	Bisulfite Injector System Improvements	Alternate dechlorination injection system for reliability improvement.	225,900	16,740	16,740	6,231
Complete	9021	Grease Receiving Station Reliability Improvements and Odor Control	Convert station to two pits, allowing for expanded volume storage. Improvements to controls, pumping, mixing.	320,200	1,698,002	1,730,417	1,730,417

**SVCW Capital Improvement Program
CIP Project Status - COMPLETED**

14-Nov-16

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	2015 CIP Update (2015 \$s)	Actual Spent thru February 2017
Complete	9022	Existing Freight Elevator Modernization	Bring passenger and freight elevators up to modern standards; replaces controls. Passenger elevator deleted from this project and included with Administration/Plant Control Building project.	496,700	1,080,137	1,092,137	1,092,137
Complete	9023	Odor & Corrosion Control Master Plan	Address overall plant odor control and corrosion control needs.	148,500	95,182	95,182	-
Complete	9028	Laboratory Building Roof Rehabilitation	Rehabilitate laboratory building roof.	23,400	80,000	106,978	106,978
Complete	9029	Solids Handling Building Control Room HVAC/Scrubber	Air scrubbing to protect sensitive equipment, includes new breaker in (E) MCC, disconnect switch, conduit & wire for air handling unit.	473,400	349,334	390,681	390,681
Complete	9030	Secondary Clarifier Collector Drive Rehabilitation	Project complete. Work done in conjunction with	251,200	435,000	471,182	471,182
Complete	9032	Wireless Network Access Expansion	Extend wireless network throughout plant.	185,900	250,000	-	-
Complete	9035	Effluent Pipe Access Hatch	Install an access hatch to the effluent pipe to facilitate inspection, cleaning, and repairs.	215,300	215,300	123,508	123,508
Complete	9036	Primary Sludge Piping Rehabilitation	Combined with Bilge Pit and Pumping project (221)	136,300	541,152	559,131	559,131
Complete	9038	Moyno Progressive Cavity Pump Replacement	Replace all Moyno pumps throughout the plant; replacement parts no longer available.	814,600	-	-	-
Complete	9040	Digester #2 Cleaning	Clean D2; 1 digester every 5 years	269,100	162,630	162,630	162,630
Complete	9075	IMS System Equipment Replacement	Purchase replacement and additional servers for overall Plant computer information management system.	572,800	572,800	67,517	52,474
Complete	9076	Digester Mix Pump Rehabilitation	Rebuild one pump every three years; purchase a spare pump.	275,000	-	-	-
Complete	9095	Digester #2 Cover Repair	Scheduled repair and recoat of D2; expect to replace 15-20 years out	788,200	3,000,000	3,072,075	3,072,075
Complete	9099	Solids Handling Building HVAC Air Scrubber-Implementation	Implement odor and corrosion control for entire SHB	1,673,100	1,911,100	2,152,400	2,340,918
Complete	9101	Fresh Water Lagoon Cleaning	Clean fresh water lagoon to provide necessary volume for stormwater runoff.	1,123,200	711,618	795,845	795,845
Complete	9104	Septage Receiving Area Odor Control	2nd grease pump, in-line grinder and local control panel. Odor control pulls negative pressure in pit to eliminate foul odors. Delete and combine with 9021.	1,115,400	71,602	71,602	71,602
Complete	9106	Laboratory Information Management System (LIMS)	Plan and proceed with implementation of LIMS for laboratory data and process information.	490,100	156,939	116,083	152,667
Complete	9114	Historian Software	Software purchase and installation to facilitate historical tracking of SCADA data.	34,100	2,366	2,366	-
Complete	9124	Biosolids Master Plan	Master plan for handling, hauling and disposal/reuse of biosolids.	6,373,600	694,523	694,523	694,974
Complete	9125	Plant Service Road Resurfacing-Phase 1	Phase 1 of overall Plant resurfacing project; repairs or expansion of paved areas in anticipation of upcoming construction activities. Project complete. Transfer funds from 9131 to cover overage.	182,200	448,890	503,138	503,138
Complete	9154	Cogeneration Engine Replacement	Upgrade cogeneration engine to enable full utilization of biogas produced.	7,227,900	10,005,000	13,500,000	17,555,210
Complete	9155	Natural Gas to Plant	Pipe natural gas from front entrance to enable its use as fuel blending for the cogeneration engines and in administration building.	181,500	401,042	419,640	419,640
Complete	9156	Administration and Plant Control Building Replacement	Build a new administration and control building at existing location.	11,408,900	20,000,000	21,247,355	21,236,430
Complete	9157	Solids Handling Building Roof Replacement	Replace the roof on SHB; leaks occurring.	226,200	70,203	70,203	70,203
Complete	9163	Demolition of Abandoned Equipment in Solids Handling Building	Demolish/remove equipment in SHB that has not been in operation for over 25 years.	-	1,469,383	1,557,091	0
Complete	9167	Boiler Replacement	Replace boilers due to age and undersized for future use. Includes replacement of piping. Project is being constructed as a CCO to the Cogen Project.	-	400,000	108,050	-
Complete	9178	Levee Repair behind Warehouse	Levee leaks when the stormwater retention basin fills to a certain level; this project repairs the levee.	-	375,000	10,782	-
Complete	9179	Pretreatment Program Sample Room	Provide a wet lab receiving area for source control to prepare samples prior to analysis and also storage of equipment.	-	389,000	575,000	633,142
Complete	9180	Maintenance Shop Reconfiguration	Reconfigure maintenance spaces that have been displaced by other projects.	-	1,372,800	228,038	280,541
Complete	9183	Stage 1 Screening at Plant Influent	Construct a screening facility at influent end of plant. Originally to be funded partially via CIP and partially from Operating budget in approximately 25/75 split.	-	858,000	4,844,000	4,217,215
Complete	9193	T1 and T2 Replacement	Replace Transformers T1 and T2. Do work as CCO to 9801 - 9804 (Power Reliability). Transfer project budget.	-	1,029,600	-	-
Complete	9194	T3 Replacement	Replace Transformer T3. Do work as CCO to 9801 - 9804 (Power Reliability). Transfer project budget.	-	514,800	-	-

**SVCW Capital Improvement Program
CIP Project Status - COMPLETED**

14-Nov-16

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	2015 CIP Update (2015 \$s)	Actual Spent thru February 2017
Complete	9195	Wetside Power	Installs new PDP-2 and replaces old transformers, T1, T2, and T3. Adds new T4. Do work as CCO to 9801 - 9804 (Power Reliability). Transfer project budget.	-	1,716,000	111,831	-
Complete	9198	Hot Water Piping Improvements - Phase I	Provide pumps and piping to allow the hot water loop to serve the new Plant Control and Lab Buildings.	-	171,600	31,738	-
Complete	9199	Hot Water Piping Improvements - Phase II	Add primary and secondary pumping to connect new cogeneration engines to the Plant hot water loop. Do work as CCO to 9154, Cogen. Transfer project budget	-	669,200	1,542	-
Complete	9202	DMF Valve Replacement	Replace old valves in the DMF gallery. Valves are high in the air and scaffolding will be required for access.	-	915,749	962,654	997,139
Complete	9205	1406 Radio Road Property Improvements	Provide for general improvements at the newly purchased property at 1406 Radio Road	-	1,135,000	234,666	234,666
Complete	9207	Maintenance Building Roof Replacement	Replaces the roof atop the maintenance building, including drainage improvements at the electrical room	-	18,749	18,949	-
Complete	9208	Solids Handling Building Demolition and Improvements - Phase II	Ready the SHB for new Cogeneration and dewatering equipment, and seismic bracing and column repairs. Do project in conjunction with CIP #9099.	-	1,900,000	2,759,901	2,772,117
Complete	9216	3W System Improvements	Make improvements to Plant Water system to assure adequate flow to all processes	-	171,600	314,600	312,344
Complete	9127	PEC & PST 1 & 2 Protective Coatings	Do SSC #3 with CIP #9014; also replace SSC drive.	-	-	946,092	946,092
Complete	8032	Final Effluent Pumping Control System (FEP) Upgrade	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not up to latest Automation Standards and best practices dictate decoupling controls from other distinct process systems for reliability. Add new SCADA View at existing FEP Platform. Includes programming needed to decouple existing scheme and enhance new controls. Construction completed as a CCO to ASA and CCO funds deleted from this project.	-	179,025	179,025	179,025
Complete	8033	Dechlorination Control System Upgrade	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not up to latest Automation Standards and best practices dictate decoupling controls from other distinct process systems for reliability. Move new Dechlor Control Panel and the SCADA View above flood line to the newly provided platform at RAS/WAS gallery. Includes programming needed to decouple existing scheme and enhance new controls. Construction completed as a CCO to ASA and CCO funds deleted from this project.	-	179,026	179,026	179,026
Complete	8034	Tertiary Filter Feed Pump Control System Upgrade	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not up to latest Automation Standards and, best practices dictate decoupling controls from other distinct process systems for reliability. Add new SCADA View to the existing platform. Includes programming needed to decouple existing scheme and enhance new controls. Construction completed as a CCO to ASA and CCO funds deleted from this project.	-	224,130	224,130	224,130
Complete	8035	Chlorination Control System Upgrade	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not up to latest Automation Standards and best practices dictate decoupling controls from other distinct process systems for reliability. Includes programming needed to decouple existing scheme and enhance new controls. Construction completed as a CCO to ASA and CCO funds deleted from this project.	-	185,478	185,479	185,479
Complete	9007	Industrial Roll-up Doors for Warehouse	Combine with CIP #9132. Project complete	21,700	19,664	19,664	19,664
Complete	9077	Engine Generator #4 Complete Rebuild	Rebuild top end (valve job and associated parts; needed every 20,000 hrs) and lower end (cam shaft, main and rod bearings, rods, pistons and liners and ancillary parts and pieces; needed every 40,000 hrs).	561,000	246,213	246,212	246,212
Complete	9098	Shipping and Receiving Trailer	Combine with CIP #9132. Project complete	34,700	-	-	-
Complete	9119	RAS Discharge Line 36" Butterfly Valve Replacement	Project Completed w/CIP #8017; Replace existing 36-inch butterfly valve with a knife gate valve to resolve ragging problem.	143,200	-	-	-
Complete	9132	Storage and Purchasing Warehouse	Construct a new warehouse for secure storage of supplies, material, and equipment. Construct offices for Purchasing department staff. Replace existing warehouse siding and skylights. Install two new roll-up doors and one double door.	430,700	994,655	1,001,862	1,001,862
Complete	9150	Odor & Corrosion Control Program - General Support	Work completed to date satisfactory for moving forward. Provides support and funding for general requirements of projects contained within the Odor & Corrosion Control Program.	-	100,000	75,450	75,450
Complete	9153	High Pressure Pump Safety Cutout Switch Replacement	Work completed in-house. Project Complete.	28,700	11,233	11,233	-

**SVCW Capital Improvement Program
CIP Project Status - COMPLETED**

14-Nov-16

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	2015 CIP Update (2015 \$s)	Actual Spent thru February 2017
Complete	9161	Digester #3 Cleaning	Combine w/CIP #9012; Clean Digester #3 to facilitate effective solids treatment and provide access for Digester #3 Rehabilitation and Upgrade project (CIP 9012). Includes purging of Digester #1, screened transfer of contents from Digester #3 to Digester #1, and disposal of screenings and Digester #3 residual contents.	-	-	-	-
Complete	9162	Digester Mix System Improvements	Combine w/CIP #9012; Replace three existing Digester Mixing Pumps with three screw centrifugal pumps and one spare to improve pumping and digester operation and reduce maintenance. The work is included with the Digester #3 Rehabilitation and Upgrade Project (CIP 9012).	-	-	-	-
Complete	9166	Digestion System Enhancements	Combine w/CIP #8021 and transfer budget. Upgrade existing digestion system to allow enhanced operation with three primary digesters in service. Enhancements include a third heat exchanger and replacement of the aging sludge recirculation pumps for all three digesters.	-	-	-	-
Complete	9182	Property Acquisition	Per Engin 7/16, Transfer costs to Proj 264	-	2,540,000	2,540,000	-
Complete	9191	Cathodic Protection at WWTP	This project replaces the worn out Plant rectifier for cathodic protection on the influent and effluent pipes. Delete project from CIP; work done in house.	-	130,000	-	-
Complete	9201	Dimminutor procurement and installation	Purchase and install 2 dimminutors for each MPPS and SCPS. Purchase 1 spare for emergency installation. Budget allocated out of 9152	-	334,814	374,323	374,442
Complete	9203	Central Chillers Replacement	Existing Chillers 1 and 2 are undersized and have reached the end of their useful lives and provide no redundancy. Chiller #1 has stopped functioning and is no longer serviceable. This project replaces the two chillers with three new chillers, providing one for redundancy and greatly enhancing reliability. Budget allocated out of 9152	-	996,448	1,109,003	1,109,003
Complete	9204	MPPS Concrete Repair	Severe corrosion and spalling concrete have been witnessed at the Menlo Park Pump Station, compromising the integrity of the structure and posing a safety hazard to SBSA Utility Workers. This project will also remove the chemical storage tanks, piping, and pumps that are no longer used. Budget allocated out of 9152	-	68,155	68,155	68,155
Complete	9211	Secondary Clarifier 6" Water Line Replacement	Replace the 6-inch water line situated on the eastern wall of the secondary clarifiers under the Activated Sludge Automation project. Project pulled from CIP #9152.	-	70,000	59,496	59,496
Complete	9213	Area Lighting	Replacement of Plant area lighting to LED lights by in-house staff and broken out from CIP #9152.	-	56,000	55,547	68,415
Complete	9227	Sodium Bisulfite Tank Alarms & Controls	Provide additional level indicating device, alarms for chemical loading, and controls for heat trace equipment. Currently the 4 tank system has only a single LIT; for safety and critical process control, a redundant LIT is needed. Project will also install visual and audible alarms.	-	-	-	-
Complete	9801	12 kV Primary Switchgear Replacement	Replace primary switchgear due to existing one's obsolescence. Project includes full enclosure and SCADA connection, cabling to T1&T2. Join CIP #s 9801 through 9804 into a larger Power Reliability Improvements project.	-	-	3,152,470	3,188,875
Complete	9802	Motor Control Center P-1,2,3, &4 Replacement	Replace all main Motor Control Center Panels P1 through P4 which have reached the end of their useful lives. Join CIP #s 9801 through 9804 into a larger Power Reliability Improvements project.	-	-	3,130,760	3,160,662
Complete	9803	Electrical System Redundancy	Replace Power Distribution Panels PD1 and PD2 due to obsolescence. Includes tie-breakers for flexibility between T1 and T2. Join CIP #s 9801 through 9804 into a larger Power Reliability Improvements project.	-	-	3,134,080	3,163,940
Complete	9805	Cogeneration System Connection to Primary Switchgear	Work completed under Power Reliability Improvements (9801 to 9804). Project Complete.	-	800,000	3,429	-
Complete	9804	Standby Power Upgrade	Install new standby bus for P1 through P5. Including new ATS's and cabling to P-6 and 2 new standby generators rated at 1MW each. Join CIP #s 9801 through 9804 into a larger Power Reliability Improvements project.	-	-	3,412,623	3,506,324
TOTALS - COMPLETED PROJECTS				\$51,504,236	\$126,514,271	\$139,194,565	\$137,315,971

**SVCW Capital Improvement Program
CIP Project Status - IN CONSTRUCTION**

14-Nov-16

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	Actual Spent thru February 2017
Constr	6003	Influent Force Main Emergency Repair	As-needed repairs if leaks in the influent force main occur.	\$ 2,145,000	\$ 3,645,000	\$ 3,840,157	2,751,562
Constr	6012	Effluent Pipeline and Outfall Reliability Improvement	Improve reliability of Effluent Pipeline and Outfall, which have historically experienced leaks	-	12,450,438	\$ 10,063,562	9,848,925
Constr	7012	Pump Stations Processor Upgrade & T-1 Transition for Primary Communications	Install new PLC processors for existing Pump Station Controls	-	-	\$ 298,151	87,992
Constr	8007	Primary Sedimentation Control System	Install basic PLC and Communication equipment, conduit and primary sensing devices for primary sedimentation tanks. Do as part of SPA project	3,245,100	2,899,640	\$ 5,442,406	5,937,043
Constr	8018	Gravity Thickener Process Automation	Install basic PLC and Communication equipment, conduit and primary sensing devices in thickener area. Part of SPA project.	2,105,800	4,285,314	\$ 6,223,412	7,425,405
Constr	8021	Anaerobic Digestion Process Automation	Automate digester process. Part of SPA project.	2,589,600	8,882,096	\$ 9,535,154	7,423,300
Constr	8023	SCADA/Auto Response to Plant Alarm Conditions	Planning and programming effort to maintain reliability while reducing labor demand. Requires Automation Program and Communications Upgrade to be completed.	1,446,700	1,255,286	\$ 744,749	226,449
Constr	8025	No. 3 Water Control System	Install basic PLC and Communication equipment, conduit and primary sensing devices for #3 water system.	111,700	225,000	\$ 231,430	44,006
Constr	8036	Automation System Integration - SRF Funded	Use funding for global automation tasks funded by SRF loan program	-	416,545	\$ 445,294	137,436
Constr	8038	Process Return Flow Meter and Sampler Installation	Install flow meters and samplers on small side streams to be able to monitor and track these flows. Project is being installed in-house.	-	357,500	\$ 382,370	132,468
Constr	9014	Process Tanks Concrete and Steel Protective Coatings Replacement	Replace coating in PEC and PST 1&2 (1st phase). Add FFR Wet Pit to project scope. Do with CIP #9127.	-	-	\$ 5,293,542	3,368,974
Constr	9015	Hypochlorite Dosing System Rehabilitation Automation	Replaces pipe, valves, pumps, manifold to allow chlorination for disinfection & odor control; work done in house. Current project replaces the two tanks with double-walled tanks.	372,900	1,350,000	\$ 820,044	616,146
Constr	9034	Electrical Conductor Replacement - MCC Room to Wetside/Dryside Loads	Multiple year project to replace old and corroded electrical cabling throughout the Plant.	4,903,500	2,400,000	\$ 2,791,033	308,844
Constr	9067	Dewatering Process Control System Upgrade	Work being completed under CIP #8021, SPA project. Adds new SCADA View at existing location, programming for cutover of new controls. Delete budget from this project.	108,400	-	\$ -	-
Constr	9080	Primary Sedimentation Tanks Collector System Replacement	Replace or rebuild collector drive system, including chains and filghts; one tank every 2 years.	1,929,100	1,929,100	\$ 4,309,732	2,147,380
Constr	9096	Plant Architectural Painting	Plant-wide painting including pumps, piping, equipment and structures. Painting necessary to prevent corrosion & for longevity of Plant's assets.	1,564,900	1,564,900	\$ 1,813,307	388,692
Constr	9118	SCADA Integration with Integrated Business Management System	Information Management System and SCADA to be tied together for asset management and maintenance scheduling.	481,000	2,168,560	\$ 2,458,093	2,025,682
Constr	9128	PST 3 & 4 Protective Coatings	Complete with 9080 - PST Collector System Replacement	714,150	714,150	\$ 2,869,160	1,730,127
Constr	9131	Plant Service Road Resurfacing-Phase 2	Plant site grading and paving.	1,089,000	821,310	\$ 953,372	153,612
Constr	9152	Small Capital Equipment Replacement	Ongoing replacement of equipment for maintenance needs throughout plant	3,714,000	1,954,500	\$ 2,238,071	1,221,856
Constr	9164	Dewatering and Solids Handling Improvements - Phase I	Recommendations from the Biosolids Master Plan for dewatering improvements.	-	3,897,253	\$ 5,536,578	6,377,159
Constr	9177	Implement Security Plan Enhancements	Implement inhancements outlined in Security Document; conjoin with capital improvements as they are being implemented.	-	1,920,000	\$ 1,165,990	526,952
Constr	9188	DMF Underdrain Access Hatches	There is no access point to the DMF underdrains. This project will provide such access.	-	105,600	\$ 116,871	2,307
Constr	9214	Alternate Bisulfite Injection Point	Provide an alternate bisulfite injection point in order to reduce the chance of permit violation	-	423,660	\$ 457,631	10,519
Constr	9222	Dual Media Filters 6A and 6B	Construct two new Dual Media Filters and associated valves and piping. Work is being performed as a CCO by ERS.	-	3,452,571	\$ 2,053,201	602,410
Constr	9226	DMF Platforms	Construct platforms for access to maintain valves in the DMF Gallery. Currently the valves are not accessible. Do work as a CCO to DMF 6A & 6B construction project (CIP #9222)	-	-	\$ 155,490	-
Constr	9228	Diesel Pump Upgrade	Relocate and replace diesel pumps and generator day tanks.	-	-	\$ 879,178	491,971
Constr	9231	BioforceTech Dryer System	Work with BioforceTech for half-scale biosolids drying Facility. SVCW to provide suitable site and utilities; Bioforce Tech to construct and operate. Tipping fee will be established based on this relationship.	-	-	\$ 2,048,637	827,643

**SVCW Capital Improvement Program
CIP Project Status - IN CONSTRUCTION**

14-Nov-16

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	Actual Spent thru February 2017
Constr	9806	Wetside Redundant Power Improvements	Addition of two standby power generators to PDP2 switchgear. In order to save monies, PDP2 was constructed to be completely ready for new generators and was originally proposed to allow existing generators to backfeed through existing primary transformers T1 and T2. Concerns raised during the Rule 21 process caused this plan to be superceded with standalone generators.	-	-	\$ 2,830,731	6,602,569
TOTALS - PROJECTS IN CONSTRUCTION				\$ 26,520,850	\$ 57,118,423	\$ 75,997,343	\$ 61,417,428

**SVCW Capital Improvement Program
CIP Project Status - PLANNING & DESIGN**

14-Nov-16

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	Actual Spent thru February 2017
Planning	6004	Flow Equalization Facility	Build wet weather and diurnal storage facilities on plant property	\$8,981,300	\$28,600,000	\$ 18,171,592	601,134
Planning	6006	Conveyance System CEQA	Project Development, CEQA, and Planning for the Conveyance System Project Elements	-	839,000	\$ 5,100,580	3,789,489
Planning	6008	Tunnel and Gravity Pipeline	Installation of gravity pipeline, using tunneling construction methods for conveying wastewater to the plant.	-	63,190,000	\$ 220,007,111	9,401,467
Planning	6010	Force Main Conveyance System Program - General Support	Provides support and funding for general requirements of projects contained within the Conveyance System Program.	-	200,000	\$ 208,810	205,178
Planning	6013	Receiving Lift Station	Construct new pump station to lift flow out of the gravity pipeline and into headworks of the plant.	-	-	\$ 50,517,763	504,388
Planning	6014	Influent Connector Pipe	Install new pipeline that connects headworks process to current plant influent.	-	-	\$ 9,081,206	432,570
Planning	7004	Menlo Park Pump Station Rehabilitation	Replace Menlo Park Pump Station to accommodate future Conveyance System needs	5,454,200	10,900,000	\$ 23,847,974	125,077
Planning	7005	Redwood City Pump Station Rehabilitation	Replace Redwood City Pump Station to accommodate Conveyance System needs	23,400,000	25,140,000	\$ 30,216,325	3,167,199
Planning	7008	Belmont Pump Station Rehabilitation	The existing pump station is at the end of its useful life. This project will replace the pump station equipment at the same location with details to be identified upon completion of the Conveyance System Program planning under Alternative 4BE. In the interim, until new pump station is constructed or deemed unnecessary, this project will fund necessary maintenance.	14,872,000	-	\$ 10,106,624	6,458
Planning	7009	Pump Stations Program - General Support	Provide general support to the Program Manager and in support of the overall pump station program.	-	400,000	\$ 426,505	162,104
Planning	7011	Belmont Force Main	Construct Pipeline between Belmont Pump Station and San Carlos Pump Station location.	-	22,022,000	\$ 3,308,933	302,650
Planning	9017	Plant #1 Water System Pipe Repair and Supply Upgrade	Rehabilitate potable water system: replace air gap tank or install backflow preventer, hydropneumatic tank, and pumps.	148,400	365,474	\$ 456,857	458,760
Planning	9033	Future Plant Electrical System Panel Replacement	Complete replacement and addition of additional panels and subpanels	5,748,600	5,570,322	\$ 6,357,363	4,011,126
Planning	9097	Plant Deck Re-coating	Add painted walkway and H2O rated hatch covers for pedestrian/cart access under the Plant Control building. Some hatches replaced under other CIP projects.	179,400	179,400	\$ 209,376	2,685
Planning	9102	Storm Drain System Improvements and Maintenance Wash Rack	Replace the last existing stormwater pump with a submersible pump and install 400' of buried 6" C900 PVC pipe and control valves to deliver storm water to the influent junction box or storm lagoon. Construct new wash rack to facilitate ability to clean equipment for maintenance overhauls. Includes upgraded electrical and control system. These two items occur in the same Plant area; stormwater PS work complete; wash rack not complete.	482,100	482,100	\$ 211,947	108,287
Planning	9103	Landscape Impoundment Improvements	Project is slated to provide improvements to the impoundment. Work in addition to what was originally intended may be done for future Plant process needs.	269,100	269,100	\$ 312,190	55,239
Planning	9105	Document Management System	Phase 2 of the IMMS; use for CIP information management.	1,995,500	1,995,500	\$ 2,318,059	326,974
Planning	9107	CCT Concrete and Steel Protective Coating Replacement	Recoat walls and Ceiling of CCT	4,807,400	4,901,400	\$ 5,719,970	90,057
Planning	9120	RAS Pump Suction Pipe Replacement	Slip-line the in-slab pipe. The high content of solids in sludge piping wears the pipe out over time; the RAS piping is thin due to the continued abrasion of the sludge transported through it.	511,800	311,800	\$ 362,864	32,962
Planning	9144	Solids Handling Program - General Support	Project provides support and funding for general requirements of projects contained within the Solids Handling Program through the life of the CIP.	-	100,000	\$ 137,681	242,362
Planning	9145	Plant Energy System Program - General Support	Provides support and funding for general requirements of projects contained within the Plant Energy System Program.	-	75,000	\$ 87,192	10,418
Planning	9160	WWTP Headworks and Screening Facility	Project provides for a new headworks and screening facility at the WWTP. Pump station predesign efforts will take headworks needs into account.	-	16,422,000	\$ 43,011,190	822,506
Planning	9169	Dewatering and Solids Handling Improvements - Phase II	Implement the dewatering improvements recommended by the Biosolids Master Plan, including replacing the existing centrifuge with a third rotary press. Timing is dependent upon several projects currently being considered (Food Waste, Bioforce Tech, future Plant loadings) and when Operations require redundancy.	-	1,123,200	\$ 1,443,215	219,271

**SVCW Capital Improvement Program
CIP Project Status - PLANNING & DESIGN**

14-Nov-16

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	Actual Spent thru February 2017
Planning	9175	Security Program for New Conveyance System Pump Stations	Conduct an evaluation of the security and monitoring needs (required and optional) to be designed into the new conveyance system pump stations. The goal is to have a list of design criteria to give to the pump station design firm to ensure consistency of security equipment and controls. This project will investigate remote monitoring alternatives desired for operational needs. The project includes SVCW making decisions on security equipment, software and integration into the plant data system assuming this project will be conducted before the Plant Security Assessment and Plan project.	-	200,000	\$ 15,113	(0)
Planning	9176	Plant Vulnerability Assessment and Security Plan	Conduct a Site Vulnerability Security Assessment and prepare a Security Plan. This is to identify the security needs at the plant based on potential for vandalism and the planned elimination of night time staffing. This plan will incorporate the decisions made in the Pump Station Security Program (CIP #9175) for software, I/C, and overall network controls. Additional hardware and equipment specific to the plant will be evaluated.	-	250,000	\$ 66,986	-
Planning	9189	DMF Pump and Discharge Piping Replacement	Replace motors and drives on DMF Pumps.	-	858,000	\$ 1,793,236	2,236
Planning	9215	Digester #1 Rehabilitation	Repair of coatings and structural elements in Digester #1. Project includes replacement of the two mix nozzles, two wall penetrations and the upper and lower vertical mix pipe manifold as previously included in CIP #9170. Also include interior coating of 24-inch horizontal mix piping as previously included in CIP #9171.	-	2,000,000	\$ 2,161,884	32,341
Planning	9223	Final Effluent Pump Replacement	Increase the capacity of the final effluent pumps to be able to discharge 80 mgd	-	2,301,714	\$ 2,484,794	97,693
Planning	9224	FEP Connection to Chlorine Mix Box	Provide pipeline to connect effluent pumps to the chlorine mix box to improve plant hydraulics and chlorine contact time	-	200,000	\$ 216,219	-
Planning	9232	Long Term Strategic Recycled Water Planning	SVCW would begin collaboration with outside stakeholders for long-term planning of recycled water expansion as a drought proof water supply, explore IPR/DPR treatment requirements etc. Budget is for staff time to attend meetings and begin long-term planning, plus work with consultants on conceptual studies. No construction dollars are included. Large scale expansion of recycled water treatment may offset dollars spend on future nutrient removal compliance	-	-	\$ 1,032,137	115,852
Design	9168	Thickening Improvements - Phase I	Rehabilitate Thickeners 2 and 3	-	2,808,000	\$ 1,448,690	69,680
Design	9186	Replacement of Aeration Blowers	The 2010 FFR preliminary design report evaluated the existing blowers and indicated an additional 10 years life remain if the units are maintained well and ventilation is added to the room. Project added in 2012 Update; use project as a placeholder for future replacement and for change to mixers inside the ABs.	-	4,290,000	\$ 4,750,568	48,070
Design	9206	Site Waste Piping and Pump Replacement	Replace discharge piping and header and add one new pump due to significant number of leaks in the system.	-	99,528	\$ 109,901	9,005
Design	9220	Aeration Basin Venturi Removal	Remove a bottleneck to allow peak flow of 80 mgd	-	1,150,857	\$ 1,243,488	19,033
Design	9229	Food Waste: Receiving Station and Digester Improvements	Plan, Design and Construct Receiving Station for Accepting Food Waste from SBWMA. Project would include new receiving station and interconnection to Digesters	-	-	\$ 14,330,203	820,483
TOTALS - PROJECTS IN PLANNING & DESIGN				\$66,849,800	\$197,244,395	\$461,274,545	\$26,292,753

Note - \$0 values where project did not yet exist in the identified CIP, was deleted, or was merged with another project

**SVCW Capital Improvement Program
CIP Project Status - REMAINING**

14-Nov-16

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	Actual Spent thru February 2017
Project On Hold	9071	Plant Gallery Floor and Wall Crack Sealing	Seal gallery floors to prevent infiltration of GW. Unplug in-slab drain pipes.	250,000	484,832	561,364	129,652
Project On Hold	9113	Evaluation of Plant Underslab Piping	TV or otherwise investigate various piping embedded in concrete throughout the Plant	371,800	371,800	434,129	-
Project On Hold	9192	Drying Beds Northern Expansion	Expands the drying bed to the north with a new 3-acre bed.	-	1,656,000	35,102	106,974
Project On Hold	9400	Nutrient Removal	Placeholder for facilities required to remove nutrients (nitrogen and phosphorous) to meet future regulations.	-	-	103,636,229	649,490
Project Not Started	8045	System Integrate: Pump Station Security into WWTP Controls	This project is for the system integration of the pump stations' security systems into the WWTP control system. The project budget assumes 1) that all the security costs associated with specific pump station design and installation of equipment will be included in specific pump station rehabilitation projects and 2) the costs for security control equipment at the WWTP is included in new CIP #9177.	-	150,000	175,146	-
Project Not Started	9041	Underground Fuel Tank Replacement	Future Underground Storage Tank regulations may require removal of this tank. Remove 15,000 gallon underground fuel (diesel) tank and replace with a tank that meets regulatory requirements when necessary. Electrical costs include conduit and wiring for new underground tank leak detection equipment necessitated by moving the tank.	458,000	458,000	534,779	-
Project Not Started	9084	Seismic Upgrade - DMF 42" Effluent Piping	Install lateral bracing on the DMF 42" effluent piping. (Seismic Improvement Program No. P14).	167,300	167,300	195,346	-
Project Not Started	9093	Headworks Odor Control	Cover grating and open areas, treat odorous air.	929,500	929,500	1,085,321	-
Project Not Started	9094	Thickener Overflow Line Butterfly Valve Replacement	The butterfly valve is worn and no longer working as it is intended.	28,300	28,300	-	-
Project Not Started	9171	Interior Coating of Horizontal Influent 24" Mix Pipes for Digester 3	The Horizontal 24" Mix Pipe Lines were inspected in 2009 and minimal reduction in pipe thickness was noted and the pipes were placed back into service. It was noted that the coating was peeling off in places so this project will inspect the pipes next time the digesters are taken down for maintenance and replace interior coating and corroded piping as needed. Digester 2 piping replaced under CIP #9095. D1 piping to be included with CIP #9215, Digester 1 Rehabilitation. D3 piping remains to be replaced.	-	100,000	116,764	-
Project Not Started	9172	Thickening Improvements - Phase II	Gravity Belt Thickeners were installed under CIP #8018, Thickening Automation in 2014-2015. If and when flows and loadings increase, Phase II will install one or more GBTs. This is a project placeholder and not currently funded.	-	2,808,000	-	-
Project Not Started	9173	Dewatering and Solids Handling Improvements - Phase III	Implement the dewatering improvements recommended by the Biosolids Master Plan, including installation of a fourth rotary press.	-	1,123,200	1,311,493	-
Project Not Started	9174	Digester Supernatant Piping Upgrades	The existing supernatant piping only allows for supernatant to Digester 3 from Digesters 1 and 2 and there is no passive overflow system at any of the Digesters. This project will investigate the future need for additional supernatant piping and alternative destinations for receiving supernatant flow. The project cost assume \$50,000 for the evaluation and a placeholder of \$250,000 for implementation.	-	300,000	350,292	-
Project Not Started	9185	Water Cannons at Aeration Basins	Provide 3W piping and appurtenances required to supply high volume, high pressure water for aeration basin wash-down.	-	107,250	118,783	-
Project Not Started	9187	Secondary Clarifier Weir Washers	Install weir washers on secondary clarifier weirs to facilitate routine daily washing and in support of eventual single shift operations and maintenance.	-	248,820	275,576	-
Project Not Started	9196	Electronic O&M Manuals	Develop Electronic O&M manuals to replace existing paper manuals. Extent of e-manuals will be determined to coincide with full plant automation requirements.	-	1,000,000	1,036,600	-
Project Not Started	9197	In-Plant Recycled Water System Expansion	Expand the recycled water pipeline installed under CIP 9018 to supply cooling water to the new emergency generators in the SHB and the new chillers in the Thickener gallery.	-	231,660	256,570	-
Project Not Started	9212	Security Arm Gates	Install security lift arm gates to block access to cars from areas of the plant past the parking lot.	-	80,000	86,488	-

**SVCW Capital Improvement Program
CIP Project Status - REMAINING**

14-Nov-16

Project Phase	Project No.	Project Name	Project Description/Status	2008 CIP (Original, 2007 \$s)	2013 CIP Update (2010 \$s)	Amended 2015 CIP Update (2015 \$s)	Actual Spent thru February 2017
Project Not Started	9225	DCP2 Processor Upgrade	DCP2 Control Logix Upgrade (Dual Chassis) for central data collection and Critical Alert Alarm (CAA) system monitoring and management. The current system is beyond it's useful life and has no redundancy.	-	-	107,599	-
Project Not Started	9233	Strategic Technology Testing Assistance	Set aside a small project budget to assist with future possible pilot studies. Do not fund project at this time.	-	-	-	-
Project Not Started	9235	Digester Gas Storage	Construct storage for digester gas gas equalization in support of optimizing the cogeneration engine operation/electricity output. Gas production expected to rise with introduction of co-digestion materials (food waste and FOG)	-	-	1,451,240	-
Project Merged	6005	Influent Force Main - Rehabilitation or Parallel	Project redefined into pipeline segments; retire this CIP #. Repair and Replacement work on the SBSA Force Main as joints fail (start to leak). The force main has approximately 4,000 single "O" ring bell and spigot joints while the entire pipe rests in bay mud and moves constantly.	125,053,500	2,786,934	3,031,955	3,031,955
Project Merged	8014	Primary Sludge Piping System Valve Automation	Install valve actuators and new valves as needed to facilitate automation of the primary sludge system. Delete project and merge with 8007.	281,700	-	-	-
Project Merged	8024	Thickening Pump #1-6 Remote on / off / speed controls	Combined with Thickener Automation (CIP 8018) via SPA project. Includes effort for motor replacement.	360,600	10,978	26,869	0
Project Merged	8030	Automation: Instrumentation & SCADA Program - General Support	Provides support and funding for general requirements of projects contained within the Energy and Automation Program. Do not fund project in 2015 Update	-	670,509	433,239	453,461
Project Merged	9108	Scum Flowmeter	Combined with Thickener Automation (CIP 8018).	29,200	-	-	-
Project Merged	9165	Seismic Upgrade of Digester Mix Room and Boiler Room Piping	Do work under SPA project, CIP # 8021.	-	111,500	-	-
Admin	9078	10-Yr CIP Program Annual Updates	Update the 10-Year CIP and costs annually or as needed to ensure that projects are scheduled and funds are available each year	180,000	300,000	348,705	87,442
Admin	9130	Capital Improvement Engineering	Funds staff required to coordinate and implement the Capital Improvement Program.	7,000,000	7,000,000	13,349,767	387,718
Admin	9158	CIP Financial Assistance	State Water Resources Control Board SRF construction loan assistance. Funding received for Admin Building and WWTP Improvements and planning loan for Conveyance System. Future applications will be submitted for Conveyance System and Future Treatment Plant projects. Budget includes ongoing compliance with loan requirements.	-	1,000,000	1,165,569	138,838
Admin	9159	OCIP Funding	Repository for funding the OCIP and payment to Aon for management of the program for first five years. New OCIP program being evaluated in 2015.	-	6,000,000	6,217,403	218,870
Admin	9184	LOC Funding - Phase I	Fees for setting up and managing LOC with Bank of the West. Process complete.	-	105,431	11,124	(0)
Admin	9209	LOC Funding - Phase II	Initial Set-up and Annual fee for LOC with Wells Fargo as of 2015.	-	120,000	129,731	-
TOTALS - REMAINING PROJECTS				\$135,109,900	\$28,350,014	\$136,483,183	\$5,204,402

Note - \$0 values where project did not yet exist in the identified CIP, was deleted, or was merged with another project

Commission Meeting Date	Action Item	Requested or Estimated Date for Completion	Status			Date of Completion	Notes
			Ongoing	In Progress	Complete		
3/23/2017	1 Compensation	April or May	✓				Dan to develop and present methodology for regular updates to compensation; natural increases w/built-in practices. Include into FY17-18 budget, salary adjustments.
	3 Manager Performance Evaluation	4/13/2017	✓				Dan to provide an annual performance evaluation form to Commissioners at the April meeting; Commissioners to send their input to John only.
2/9/2017	1 Provide PIN and keycards to Commissioners	3/23/2017	✓				Will be provided to Commissioners at March meeting
	2 Compensation Study	3/23/2017	✓				First report provided salary information only, no benefits. Consultant re-working the study to include benefits and will be presented to the Commission at the March meeting.
	3 March meeting agenda	3/17/2017	✓				To the extent possible, keep agenda items to a minimum and/or on Consent Calendar. Due to budget focus.
1/12/2017	1 CalPERS actions on performance pay	NA	✓				Inform all persons who received the CalPERS letters of what actions the Commission is taking. This is anticipated to be a long lasting ordeal and multiple updates will be provided as information becomes available.
	2 SVCW Financial Reports	2/9/2017	✓				Send warrant registers for review by Commissioners via email prior to Commission meeting they will approve them at. Do not send hard copies with agenda packet.
	3 SRF Funding	<1/30/2017	✓				Send the letter from Commission to state legislatures for SRF funding prior to Jan 30th meeting w/SWRCB
	4 Long Term Financial Plan	2/9/2017	✓				Add statement to LRF re: debt and generational equity; a statement re: debt interest due to not having \$ for pay-as-you-go.
	5 CIP Funding	Spring 2017	✓				Present a recommendation to Commission re: timing for bond issuance.
	1 Prepare discussion re: financing the CIP (bonds/no bonds)	1/12/2017	✓				Preliminary discussion with LRF presentation in January
11/10/2016	1 Discuss 2017 Commission Meeting Dates	12/8/2016	✓				Commissioners confirmed meeting dates.
	2 Conveyance System DEIR	>12/8/2016	✓				Presentation provided at December Commission meeting; no additional meeting needed until FEIR. Staff to report at each Commission meeting received during the 45-day comment period. Ensure drafters of EIR are present at FEIR meeting in April.
	3 Investment Report	12/8/2016	✓				Ensure numbers in report tie in to front page numbers.

Commission Meeting Date	Action Item	Requested or Estimated Date for Completion	Ongoing Progress	In Complete	Status	Date of Completion	Notes
10/13/2016	1	IT System Shut-down of October 17th	10/14/2016		✓	10/14/2016	Notify public of planned IT shutdown via website.
	2	Conveyance System DEIR	>12/8/2016		✓		See discussion under 11/10/2016 above.
	3	SRF Funding Availability	January or February		✓	1/19/2017	Letter to State legislators and SWRCB advocating CA issuing more bonds to fund the SRF program drafted and presented to Commission. Letter sent mid-January.
	4	Conveyance System Commission sub-committee	NA		✓	11/7/2016	Subcommittee (Lieberman and Moritz) met on Nov 7 to discuss conveyance system progress.
	5	Greendale property construction progress	6/30/2017		✓		After redesign for changed county required retention wall strength, contractor has begun construction again and is expected to complete work in June. Additional costs are being tabulated on a direct time and materials basis with no mark up by contractor.
9/8/2016	1	Job Classification and Total Compensation Study	1/31/2017		✓		UPDATE: The draft report was received and staff found the consultant had only provided salary information and not complete compensation information. After communication with the consultant, it was determined they had not fulfilled their scope and they are now assembling the other information needed to evaluate total compensation. This information was provided at the March Commission meeting.
	2	Control Building HVAC System	NA		✓		Seek damages recovery from Architect of Record
	3	JPA re-write: prepare RFP and concurrently reach out to legal counsels of each member agency.	NA		✓		UPDATE: Staff is working with legal counsel to identify base issues for consideration. First round edits have been complete. Next step is to identify specific issues to present to potential special counsel (once hired) to facilitate the re-write.
	4	Connection Fees	NA		✓		Additional plant capacity evaluation is underway to ensure proper flow numbers are used in the calculations. Expect to address at May or June Commission Meeting.
8/18/2016	1	SCBS Ratify Emergency Condition - Valve Replacement	NA		✓	12/8/2016	Reported in December the emergency condition has been alleviated.
7/14/2016		No new items at this meeting					
6/9/2016	1	Contract Change Orders	NA	✓		8/18/2016	When there is a change in contract amount, note % increase over original contract amounts; began at August meeting.

Commission Meeting Date	Action Item	Requested or Estimated Date for Completion	Status			Date of Completion	Notes
			Ongoing	In Progress	Complete		
	MOU Negotiations	NA		✓			When MOU negotiations occur, present status updates to the Commission - anticipated in late 2017/early 2018.
5/12/2016	1	Consider a Press Release for APWA award received	NA		✓		Determined to not address at this time.
	2	Cost Delta for SRF vs no SRF	8/18/2016		✓	7/14/2016	Part of Risk Assessment analysis. Will be an ongoing report at future Commission meetings
	3	Vendor Gifts	10/13/2016		✓	11/10/2016	Draft policy provided at October meeting. Action item to be added to November meeting.
4/14/2016	1	Change to descriptive minutes from Commission meetings	5/5/2016		✓	5/5/2106	Descriptive minutes began for April meeting and was provided with May meeting agenda; minutes approved in May.
	2	Present increase to reserves by \$1M	8/18/2016		✓		Determined by SVCW CFO to not proceed with increase at this time.
	3	Perform risk analysis by independent consultant for conveyance system	7/14/2016		✓	7/14/2016	PO approved for Exponent to complete risk assessment at May meeting. Results reported at July meeting.
	4	Cogeneration Gas Conditioning	NA		✓		Cogen engines back online as of late April 2016.
3/10/2016	1	Conveyance System Program - Report out on public comments received through Public Scoping period	4/14/2016		✓	4/7/2016	Summary complete and included as Item 8B on April 14, 2016 Commission meeting
	2	Review policy re: gifts received from vendors	5/12/2016		✓	5/12/2016	Item discussed at May meeting; see notes above.

**MINUTES OF SILICON VALLEY CLEAN WATER
SPECIAL MEETING – MARCH 23, 2017**

ITEM 1

CALL TO ORDER

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

ITEM 2

ROLL CALL - Commissioners Duly Appointed By Each Agency

Mayor John Seybert, Redwood City – Chair

Council Member Warren Lieberman, PhD., Belmont– Vice Chair

Board Member George S. Otte, P.E., West Bay Sanitary District

Mayor Robert Grassilli, San Carlos – Secretary

Staff, Consultants and Visitors Present

Christine C. Fitzgerald, SVCW Legal Counsel

Daniel T. Child, SVCW Manager

Teresa Herrera, SVCW Assistant Manager/Authority Engineer

Monte Hamamoto, SVCW Wastewater Superintendent

Matt Anderson, SVCW Chief Financial Officer

Jennifer Flick, SVCW Human Resources Director

Kim Hackett, SVCW Engineering Director

Bruce Burnworth, SVCW Senior Engineer

Arvind Akela, SVCW Senior Engineer

Cindy Hui, SVCW Financial Analyst

Bob Huffstutler, SVCW Operations Director

Ilana Schmidt, SVCW Administrative Assistant

Derek Rampone, City of Redwood City

Grace Le, City of San Carlos

Aren Hansen, Brown and Caldwell

Mark Minkowski, Kennedy/Jenks

Robert Porr, Fieldman, Rolapp & Associates

ITEM 3

PLEDGE OF ALLEGIANCE

Mr. Seybert led those attending the meeting in the recital of the Pledge of Allegiance.

ITEM 4

PUBLIC COMMENT

There was no Public Comment.

ITEM 5A

SAFETY MOMENT

Mr. Child discussed fire safety during the winter and ways to keep your home safe.

ITEM 5B

MANAGER'S REPORT

Mr. Child began by stating that from this point forth, the Commissioners will start hearing the term "RESCU" for the Conveyance System Program. Staff found that projects on the WIFIA side of Federal Funding Programs tend to identify projects with acronym names, so for the SVCW Conveyance System loan pursuit, the name will be the Regional Environmental Sewer Conveyance Upgrade or RESCU.

Recently SVCW has been working with the San Francisco Public Utilities Commission, California Water, BASCWA and others on the indirect potable reuse of our recycled water program. The Agency has an MOU with them to investigate going forward and last week the agencies were approached by the City of San Mateo requesting to join the group. Additional participants are welcome as it will spread the cost between more impacted communities and more involvement by others will help arrive at the best solutions.

SVCW is assembling a Letter of Interest which is the first step of the WIFIA loan process. The Letter of Interest is due on or before April 10th. If the Letter of Interest is accepted, the next step is to complete the official project application.

The Member Agency City Mayors have submitted a signed Letter of Support for the WIFIA loan. SVCW has been told by representatives working for the Agency in Washington that local support is very important in the loan approval process. In addition, SVCW has also been advised to have confirmed Letters of Support coming from Representatives Eschoo and Speier and along with Senator Feinstein. Senator Harris' office is still working on a letter, but has not confirmed receipt in time for submission with our Letter of Interest. Though the County of San Mateo is not a Member Agency of SVCW, SVCW does serve many areas in the county. Mr. Child asked if any of the SVCW Commissioners has ready contact with a member of the County Board of Supervisors and would be willing to request a Letter of Support for our WIFIA loan. After some discussion, Mr. Seybert directed Mr. Child to contact Marcy in Supervisor Warren Slocum's office for assistance.

ITEM 5C

FINANCIAL REPORT

Mr. Seybert asked if there were any questions on the Financial Report. There were none.

ITEM 5F

CONVEYANCE SYSTEM PROGRAM UPDATE

Ms. Herrera distributed a handout updating the Commission on Conveyance System activities. There was no discussion.

ITEM 6

MATTERS OF COMMISSION MEMBER'S INTEREST

Mr. Seybert began by stating that at last week's Utilities Committee Meeting in Redwood

City a discussion was held regarding upcoming requirements to divert less water from rivers associated with the Hetch Hetchy system. If these are implemented, it will mean higher minimum flow in the rivers, which could result in less water available for human uses, especially during a draught. It is forecast that in a future draught, a fifty percent (50%) cut back in available water supply is likely. Mr. Seybert expressed Redwood City's concern that the issue of portable reuse has got to be fast tracked in our communities. Their staff is being asked to continue to do whatever they can in this regard since if this law passes, the only solution to a drought is going to be potable reuse.

Mr. Grassilli expressed his thanks to the Commission and SVCW staff for changing the date of this month's Commission Meeting.

In addition, SVCW's newest Commissioner, Mr. Otte, thanked SVCW staff for spending time to familiarize him with SVCW through a tour of the SVCW facilities.

ITEM 7

CONSIDERATION OF MOTION APPROVING CONSENT CALENDAR

Motion/Second: Mr. Grassilli / Mr. Lieberman

The motion carried by unanimous roll call vote.

ITEM 8A

CONSIDERATION OF RESOLUTION AND MOTION AWARDDING CONTRACT FOR THE ROTARY DRUM THICKENER AND APPROVING DESIGN SERVICES

Mr. Seybert asked if both items – the Drum Thickener and Design Services could be treated as one. Ms. Fitzgerald approved combining the items and asked that the Minutes reflect that both items were voted upon.

Ms. Herrera began the discussion by showing several slides of the thickening system. In the past, there were four Gravity Thickeners, however, two thickeners catastrophically failed a few years ago and were taken off-line. Two Gravity Belt Thickeners (GBT) were constructed for thickening the Waste Activated Sludge, while Primary Sludge has continued to be thickened in the two remaining Gravity Thickeners.

Unfortunately, approximately a month ago, the two remaining Gravity Thickeners also failed. One was a catastrophic failure that was not able to be repaired and while the final Gravity Thickener was able to be put back on line through the expertise of the SVCW maintenance team.

The Engineering Department has been considering the best solution for thickening both Waste Activated Sludge and Primary Sludge in the future. Currently, Primary Sludge is taken from the tanks and is sent to the Degritter in the Solids Handling Building (SHB) and then pumped all the way back to the Gravity Thickeners, and from there it is once again pumped to the SHB for injection to the digesters. This process is very inefficient and costly as the material is pumped at least three times at a distance of nearly 500 feet each time.

The purchase and installation of Rotary Drum Thickeners, placing them just below the De-gritter in the Solids Handling Building, will greatly reduce the amount of pumping required to prepare and inject the solids into the digesters.

The proposed action is for the purchase of two Rotary Drum Thickeners. The Engineering Department is currently preparing contract documents for installation and anticipate bid results coming to the Commission in May or June for consideration and approval.

Therefore, the recommendation is twofold: accept the low bid for the purchase of two Rotary Drum Thickeners from West Tech Engineering; and approve engineering services of Kennedy/Jenks for preparation of installation and bid documents, including all work necessary to complete the installation and construction of the project.

Motion/Second: Mr. Grassilli / Mr. Lieberman

Move adoption of RESOLUTION ACCEPTING BID OF LOWEST RESPONSIBLE BIDDER FOR ROTARY DRUM THICKENER AND AUTHORIZING EXECUTION OF AGREEMENT FOR PURCHASE OF ROTARY DRUM THICKENER SYSTEMS TO WESTECH FOR THICKENING UPGRADE – PHASE 1 PROJECT (CIP #9168); REJECTING ALL OTHER BIDS, AUTHORIZING EXECUTION OF AGREEMENT FOR SAID WORK, DIRECTING RETURN OF SECURITY DEPOSITS THEREFORE, AND AUTHORIZE MANAGER TO APPROVE CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT VALUE FOR SAID PROJECT (\$814,129.00) – WESTECH ENGINEERING, INC.

Move approval of TASK ORDER SCOPE AND BUDGET FOR ENGINEERING DESIGN SERVICES FOR THICKENING UPGRADE PHASE 1 (CIP #9168) IN AN AMOUNT NOT TO EXCEED \$219,000.00 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AS-NEEDED BASIS – KENNEDY/JENKS.

The resolution and motion carried by unanimous roll call vote.

ITEM 8B

PRESENTATION OF SVCW COMPENSATION EVALUATION – INFORMATIONAL ONLY – INFORMATION WILL BE PRESENTED AT THE COMMISSION MEETING AND THERE IS NO ACTION TO BE TAKEN. COMMISSION WILL PROVIDE DIRECTION TO STAFF AS NEEDED.

Ms. Lori Messler from Gallagher Benefit Service's Fox Lawson Group (Compensation Study Consultant) joined the meeting remotely to present the findings and results to the Commission. She began by explaining the methodology of the Decision Band Method and how it is applied as well as the following criteria used to determine findings: Position description questionnaires filled out by employees, current organization and job documentation, governance, management and employee interviews, best practices in public sector organizations and SVCW classification and compensation philosophies. In

addition, data was used from local participants and private sector survey data representing eighteen organizations and four survey sources.

Commissioner Lieberman inquired why the evaluation did not include any of the SVCW Member Agencies as a source of data. Mr. Child responded that only agencies with wastewater treatment plants were considered in the study, allowing a comparison of similar worksites to SVCW. That is why there are some cities, who do have wastewater treatment plants, included in the information.

Ms. Messler went on to say that overall, the current range maximums of all positions lag the 100th percentile of the market range maximums except for the Administrative Assistant position which is within the highly competitive range.

In addition, Ms. Messler recommended that SVCW maintain the existing step system with a few modifications to allow the Authority to be flexible and promote a high performance work environment. These changes will assist SVCW in better aligning with the current market since the last study done almost ten years ago. The concluding recommendation is for SVCW to perform updates every 3 to 5 years to ensure SVCW's pay scales and benefit package remain competitive.

The Commission directed Mr. Child to address changes needed at this time and present recommendation actions in the Final Budget submitted to the Commission at the April meeting. The Commission also expressed the need to prepare a policy or procedure to keep SVCW compensation up to date in the future and not have such long lapses in evaluating the compensation needs of the Authority.

ITEM 8C

FY 2017-18 BUDGET WORKSHOP EVALUATION – INFORMATIONAL ONLY – NO ACTION TO BE TAKEN. COMMISSION WILL PROVIDE DIRECTION TO STAFF AS NEEDED

Mr. Anderson began his presentation with initiative highlights for 2017-18 which include design-build for the Conveyance System, acquiring new financial software, accessing low-cost debt for CIP financing and maximizing energy savings through operations.

Mr. Anderson presented a graph of operating costs by expense type and stated that, as would be expected, O&M (Operations and Maintenance) costs account for over two-thirds of the budget. Mr. Anderson discussed the operating budget contributions; revenue-funded capital and cash reserves needed to keep rates stable if unforeseen expenditures occur. Mr. Anderson shared member agencies contributions in accordance with flow and loading metrics and noted the proposed budget will be discussed with the Technical Committee and Member Agency's Finance Staff following the Commission Meeting.

Over the past nine years there has been \$230 million dollars spent in the overall Capital Improvement Project and approximately \$590 million of work still needs construction. The largest remaining piece of work being the Conveyance System Program (now known as RESCU), with nutrient removal being a very distant second place.

Mr. Anderson shared upcoming need for incurring additional debt and noted that SVCW is still pursuing SRF Loans as well other funding sources.

Mr. Grassilli and Mr. Lieberman commented on concerns with funding from WIFIA especially with what is happening with the EPA. Mr. Anderson noted their concern, but stated the proposed cuts in many federal agencies are aimed at eliminating perceived excess and based on the recent visit to USEPA Headquarters in Washington DC with Mr. Child, it appears the WIFIA loan program is viable and is optimistic SVCW will receive federal monies.

Mr. Anderson concluded with a calendar of events with the adoption of the 2017-18 Budget at April's Commission Meeting.

ITEM 9

CLOSED SESSION

Closed Session was called to order at 9:13 a.m.

A. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION

Pursuant to Government Code §54956.9(d)(1)

Case Name: *In the Matter of the Calculation of Final Compensation of David A. Hall, Respondent, and Silicon Valley Clean Water, Respondent* (Board of Administration, California Public Employees' Retirement System, Agency Case No. 2015-1236 OAH NO. 2016030664)

B. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Government Code §54956.9 (12 potential cases): CalPERS' Determination to Exclude Performance Pay from Retirement Benefit Calculations and Opportunity to Appeal Determination

ITEM 10

RECONVENE IN OPEN SESSION

Open Session reconvened at 9:20 a.m. Ms. Fitzgerald reported that discussion was held on the above items and instructions were given to Staff and Counsel by the Commission and no action was taken.

ITEM 11

ADJOURN

There being no further business, the meeting adjourned at 9:21 a.m.

Robert Grassilli, Secretary
By: Daniel T. Child, Manager

SVCW WARRANT REGISTER

SVCW Warrant Register for the period covering February 25, 2017 to March 10, 2017.
A scanned copy was e-mailed to Commissioners on March 20, 2017.

03-10-17

SILICON VALLEY CLEAN WATER
WARRANT REGISTER
FUND RECAP

PAGE 9659

NAME	FUND	AMOUNT
PAYROLL REVOLVING	11	70.00
CAPITAL IMPROVEMENT FUND	14	103,451.92
OPERATION	18	245,915.20
PLANT - CIP BOND	20	517,200.79
TOTAL FOR APPROVAL		\$866,637.91

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 9639 THROUGH 9659 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 19888 THROUGH 19998 INCLUSIVE, TOTALING IN THE AMOUNT OF \$866,637.91, HAVE BEEN CHECKED IN DETAIL AND APPROVED BY THE PROPER OFFICIALS, AND IN MY OPINION REPRESENT FAIR AND JUST CHARGES AGAINST THE AUTHORITY IN ACCORDANCE WITH THEIR RESPECTIVE AMOUNTS AS INDICATED THEREON.

RESPECTFULLY SUBMITTED,

.....
CONTROLLER

FSM

3/9/17

DATE

2/25/17-3/10/17

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SILICON VALLEY CLEAN WATER
WARRANT REGISTER
03/10/17

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
ACME ANALYTICAL SOLUTIONS INC.	19888		296.55		
MISCELLANEOUS		13421 QTY 3 SULFURIC ACID SOLUTION 18%		296.55	18
AIRGAS USA, LLC	19889		2,643.30		
SUPPLIES		9941923157 1/17 O&M MAINT WELDING GASES		1,222.02	18
		9941923157 1/17 O&M MAINT WELDING GASES		50.84	18
		9941923157 1/17 O&M MAINT WELDING GASES		7.25	18
		9941923157 1/17 O&M MAINT WELDING GASES		41.54	18
		9942648937 2/17 O&M MAINT WELDING GASES		50.84	18
		9942648937 2/17 O&M MAINT WELDING GASES		7.25	18
		9942648937 2/17 O&M MAINT WELDING GASES		1,222.02	18
		9942648937 2/17 O&M MAINT WELDING GASES		41.54	18
ALHAMBRA & SIERRA SPRINGS	19890		100.20		
SUPPLIES		5056091010117 12/16 BOTTLED WATER SERVICE		57.60	18
		5056091020117 1/17 BOTTLED WATER SERVICE		42.60	18
ALLIED IRON CO., INC.	19891		373.01		
MACHINERY AND EQUIP MAINT MATE		131377 QTY 14 FLATBAR		373.01	18
ALPHA ANALYTICAL LABORATORIES	19892		1,550.00		
CONTRACT SERV. (NON-MAINT.)		7021099RPSVCW SAN CARLOS LAB ANALYSIS		85.00	18
		7021145RPSVCW PLANT PERMIT LAB ANALYSIS		105.00	18
		7022567RPSVCW PLANT PERMIT LAB ANALYSIS		105.00	18
		7023022RPSVCW PLANT PERMIT LAB ANALYSIS		105.00	18
		7023203RPSVCW SAN CARLOS LAB ANALYSIS		85.00	18
		7031139RPSVCW PLANT PERMIT LAB ANALYSIS		1,065.00	18
ANDREINI BROTHERS INC	19893		5,441.66		
CONSTRUCTION-CONTRACTOR		131155362 1/25-1/31/17 EXCAVATOR RENTAL		2,720.83	20
		131155362 1/25-1/31/17 EXCAVATOR RENTAL		2,720.83	20

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SILICON VALLEY CLEAN WATER
WARRANT REGISTER
03/10/17

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
AT&T	19894		330.66		
UTILITIES		207201701511 2/7-3/6/17 SCPS AT&T SERVICE		66.89	18
		207201715339 2/7-3/6/17 RWCPS AT&T SERVICE		98.44	18
		207201724836 2/7-3/6/17 MPPS AT&T SERVICE		98.44	18
		207201796059 2/7-3/6/17 BLPS AT&T SERVICE		66.89	18
ATMOSPHERIC ANALYSIS & CONSULT	19895		1,820.00		
CONTRACT SERV. (NON-MAINT.)		A16513 ANALYSIS & REPORTING - SILOXANES		1,820.00	18
BAY ALARM COMPANY	19896		776.70		
CONTRACT SERV. (NON-MAINT.)		13564574 1/1/17-4/1/17 FIRE MONITORING FEE		149.46	18
		13564574 1/1/17-4/1/17 FIRE MONITORING FEE		627.24	18
BEECHER ENGINEERING	19897		2,296.00		
PROFESSIONAL SERVICES		21745 1/25-1/31/17 T.O. 2016-01 ELECTRICAL ENG SVCS		984.00	18
CONSTRUCTION-DESIGN		21749 1/25/17 T.O. 2016-07 ELECTRICAL ENG SVCS-PREP/SI		1,312.00	20
BROWNING FERRIS INDUSTRIES OF	19898		493.80		
CONTRACT SERV. (NON-MAINT.)		4227000046312 1/17 GRIT HAULING OX MTN		493.80	18
BRYANT & ASSOCIATES	19899		9,127.50		
CONST.-ADMIN. & LEGAL		3022017 2/17 FUNDING&COMMUNICATION SUPPORT SVCS		9,127.50	20
BUCKLES SMITH ELECTRIC COMPANY	19900		845.64		
MACHINERY AND EQUIP MAINT MATE		302068100 QTY 2 STRATIX 2000 PORT		845.64	18
C H BULL COMPANY	19901		279.49		
MACHINERY AND EQUIP MAINT MATE		1195153 QTY 1 RIDGID CORD, QTY 1 RIDGIT A-61 TOOK KIT		165.25	18
		1195153 QTY 1 RIDGID CORD, QTY 1 RIDGIT A-61 TOOK KIT		114.24	18

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SILICON VALLEY CLEAN WATER
WARRANT REGISTER
03/10/17

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CALIFORNIA DETAILERS, INC.	19902		550.00		
MACH & EQUIP MAINT SERVICES		43485 2/11/17 FLEET VEHICLE ON-SITE WASH		275.00	18
		43612 2/25/17 FLEET VEHICLE ON-SITE WASH		275.00	18
CALIFORNIA WATER SERVICE CO	19903		174.51		
UTILITIES		2142017 1/14-2/13/17 SCPS WATER		174.51	18
CASCADE INTEGRATION & DEVELOPM	19904		11,070.00		
CONSTRUCTION-DESIGN		1244 1/17 T.O. 2016-01 SOLIDS PROCESSING AUTOMATION		3,690.00	20
		1244 1/17 T.O. 2016-01 SOLIDS PROCESSING AUTOMATION		3,690.00	20
		1244 1/17 T.O. 2016-01 SOLIDS PROCESSING AUTOMATION		3,690.00	20
CDM SMITH INC.	19905		307.50		
CONSTRUCTION-DESIGN		90011857 1/1-1/28/17 T.O. 2015-04 HEADWORKS & SCREENIN		153.75	20
		90011857 1/1-1/28/17 T.O. 2015-04 HEADWORKS & SCREENIN		153.75	20
CHAVAN & ASSOCIATES, LLP	19906		1,350.00		
PROFESSIONAL SERVICES		CA1303 7/30/16 AUDIT FINAL PROGRESS BILLING		1,350.00	18
CINTAS CORPORATION	19907		114.56		
SUPPLIES		5007221146 2/24/17 FIRST AID & SAFETY SUPPLIES		114.56	18
CINTAS CORPORATION NO. 3	19908		1,488.59		
SUPPLIES		464708537 2/7/17 LAUNDRY SERVICE		739.86	18
		464711346 2/14/17 LAUNDRY SERVICE		748.73	18
CLIPPER CONTROLS INC	19909		2,030.27		
MACH & EQUIP MAINT SERVICES		10583 2/17/17 SERVICE ON CLIPPER CONTROLS TELEDYNE		1,250.00	18
		10585 1/6-1/7/17 SERVICE-TROUBLESHOOT TELEDYNE ISCO PU		253.87	18
		10585 1/6-1/7/17 SERVICE-TROUBLESHOOT TELEDYNE ISCO PU		526.40	18

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SILICON VALLEY CLEAN WATER
WARRANT REGISTER
03/10/17

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
COLLABORATIVE STRATEGIES CONSU CONSTRUCTION-DESIGN	19910		18,270.00		
		8608SV0217 2/10-2/23/17 T.O. 2016-08 ENHANCED PROJ MGM		69.30	20
		8608SV0217 2/10-2/23/17 T.O. 2016-08 ENHANCED PROJ MGM		693.00	20
		8608SV0217 2/10-2/23/17 T.O. 2016-08 ENHANCED PROJ MGM		151.20	20
		8608SV0217 2/10-2/23/17 T.O. 2016-08 ENHANCED PROJ MGM		50.40	20
		8608SV0217 2/10-2/23/17 T.O. 2016-08 ENHANCED PROJ MGM		69.30	20
		8608SV0217 2/10-2/23/17 T.O. 2016-08 ENHANCED PROJ MGM		25.20	20
		8608SV0217 2/10-2/23/17 T.O. 2016-08 ENHANCED PROJ MGM		25.20	20
		8608SV0217 2/10-2/23/17 T.O. 2016-08 ENHANCED PROJ MGM		75.60	20
		8608SV0217 2/10-2/23/17 T.O. 2016-08 ENHANCED PROJ MGM		88.20	20
		8608SV0217 2/10-2/23/17 T.O. 2016-08 ENHANCED PROJ MGM		12.60	20
		12501SV0217 1/13-2/9/17 T.O. 2017-01 ACQUISITION SVCS		5,145.00	20
		13501SV0217 2/10-2/23/17 T.O. 2017-01 PROP ACQUISITION		1,260.00	20
		13605SV0217 2/10-2/23/17 T.O. 2016-05 RWC PUMP STATION		3,150.00	20
		13606SV0217 2/10-2/23/17 T.O. 2016-06 MPPS REHAB		2,362.50	20
		14601SV0217 2/10-2/23/17 T.O. 2016-01 BELMONT FORCE MA		2,257.50	20
		14602SV0217 2/10-2/23/17 T.O. 2016-03 INFLUENT CONNECT		2,100.00	20
		131604SV0217 2/10-2/23/17 T.O. 2016-04 CONVEYANCE SUPP		88.20	20
		131604SV0217 2/10-2/23/17 T.O. 2016-04 CONVEYANCE SUPP		29.40	20
		131604SV0217 2/10-2/23/17 T.O. 2016-04 CONVEYANCE SUPP		40.43	20
		131604SV0217 2/10-2/23/17 T.O. 2016-04 CONVEYANCE SUPP		14.70	20
		131604SV0217 2/10-2/23/17 T.O. 2016-04 CONVEYANCE SUPP		14.70	20
		131604SV0217 2/10-2/23/17 T.O. 2016-04 CONVEYANCE SUPP		44.10	20
		131604SV0217 2/10-2/23/17 T.O. 2016-04 CONVEYANCE SUPP		51.44	20
		131604SV0217 2/10-2/23/17 T.O. 2016-04 CONVEYANCE SUPP		7.35	20
		131604SV0217 2/10-2/23/17 T.O. 2016-04 CONVEYANCE SUPP		40.43	20
		131604SV0217 2/10-2/23/17 T.O. 2016-04 CONVEYANCE SUPP		404.25	20
CONSOLIDATED PARTS INC.	19911		706.88		
MACHINERY AND EQUIP MAINT MATE		5037350 QTY 1 BREAKER 250W MTR CKT PROTECTOR		706.88	18

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SILICON VALLEY CLEAN WATER
WARRANT REGISTER
03/10/17

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
COUNTY OF SAN MATEO	19912		85.00		
TRAINING		SD160082 1/24/17 TRAINING SESSION - DYE, JERRY		85.00	18
D.C. FROST ASSOCIATES INC.	19913		2,576.44		
MACHINERY AND EQUIP MAINT MATE		10869 QTY 1 SECTION BOTTOM CONE M-GC 12" FR		1,493.44	18
MISCELLANEOUS		10884 QTY 4 LINER BOTTOM CONE RUB 12/24" FR		1,083.00	18
D.W. NICHOLSON CORPORATION	19914		91,170.42		
CONSTRUCTION-CONTRACTOR		7271 THRU 12/30/16 36" VALVE WET WEATHER BOOSTER STATI		79,436.00	14
		7317 THRU 1/31/17 36" VALVE WET WEATHER BOOSTER STATIO		6,814.42	14
		7378 THRU 1/31/17 36" VALVE WET WEATHER BOOSTER STATIO		4,920.00	14
DATASPAN HOLDINGS, INC.	19915		825.00		
CONTRACT SERV. (NON-MAINT.)		42396171 DATA CENTER CLEANING SERVICE		825.00	18
DAVID J POWERS AND ASSOCIATES,	19916		20,732.51		
CONSTRUCTION-DESIGN		20150214 1/17 T.O. 2015-02 CONVEYANCE SYSTEM CEQA - EI		1,114.38	20
		20150214 1/17 T.O. 2015-02 CONVEYANCE SYSTEM CEQA - EI		11,143.83	20
		20150214 1/17 T.O. 2015-02 CONVEYANCE SYSTEM CEQA - EI		2,431.38	20
		20150214 1/17 T.O. 2015-02 CONVEYANCE SYSTEM CEQA - EI		810.46	20
		20150214 1/17 T.O. 2015-02 CONVEYANCE SYSTEM CEQA - EI		1,114.38	20
		20150214 1/17 T.O. 2015-02 CONVEYANCE SYSTEM CEQA - EI		405.23	20
		20150214 1/17 T.O. 2015-02 CONVEYANCE SYSTEM CEQA - EI		405.23	20
		20150214 1/17 T.O. 2015-02 CONVEYANCE SYSTEM CEQA - EI		1,215.69	20
		20150214 1/17 T.O. 2015-02 CONVEYANCE SYSTEM CEQA - EI		1,418.31	20
		20150214 1/17 T.O. 2015-02 CONVEYANCE SYSTEM CEQA - EI		202.62	20
		20160110 1/17 T.O. 2016-01 SRF FUNDING PREP FOR WWTP I		471.00	20
DKF SOLUTIONS GROUP, LLC	19917		450.00		
CONTRACT SERV. (NON-MAINT.)		12924 3/2017 MY SAFETY OFFICER- MONTHLY SUBSCRIPTION F		450.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
DMJ GAS MARKETING CONSULTANTS, UTILITIES	19918	20170101 1/17 COGEN GAS	2,652.09	2,652.09	18
ENDRESS+HAUSER, INC MISCELLANEOUS	19919	6001862465 QTY 1 PROMAG L400	3,983.51	3,983.51	18
ENVIRONMENTAL RESOURCE ASSOCIA SUPPLIES	19920	CM814226 CREDIT MEMO - CORRECTION SALES TAX LAB SUPPLI	1,272.31	-3.19	18
		819338 LAB SUPPLIES, CHEMICALS		1,275.50	18
ERS INDUSTRIAL SERVICES, INC. CONSTRUCTION-CONTRACTOR	19921	19POM10468 12/16 PRG PMT#19 DUAL MEDIA FILTER A1-A5 CO	30,793.15	6,309.23	20
		20POM10468 1/17 PRG PMT#20 DUAL MEDIA FILTER A1-A5 COA		24,483.92	20
EVOQUA WATER TECHNOLOGIES LLC CHEMICAL SUPPLIES	19922	902972471 1/31/17 4260 GAL CALCIUM NITRATE	9,728.78	6,348.83	18
		902972471 1/31/17 4260 GAL CALCIUM NITRATE		3,379.95	18
EXCELL FEEDERS INC MISCELLANEOUS	19923	11067TAX SALES TAX LIABILITY	274.53	-21.70	18
		11067 QTY 2 POLYMER STRAINERS PP 1.25"		296.23	18

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FASTENAL COMPANY	19924		7,185.14		
MACHINERY AND EQUIP MAINT MATE		CASAA51360 VENDOR MANAGED RESTOCK		41.10	18
		CASAA51360 VENDOR MANAGED RESTOCK		71.49	18
		CASAA51360 VENDOR MANAGED RESTOCK		51.49	18
MISCELLANEOUS		CASAA51361 VENDOR MANAGED RESTOCK		23.73	18
		CASAA51361 VENDOR MANAGED RESTOCK		20.97	18
		CASAA51361 VENDOR MANAGED RESTOCK		10.74	18
		CASAA51435 QTY 5 3-FLAT REDUCED SHANK HSS 118		149.50	18
		CASAA51445 QTY 50 316 SS TRUBOLT AND WEDGE ANCHOR		444.57	18
MACHINERY AND EQUIP MAINT MATE		CASAA51446 QTY 2 3/8" SHANK W/2" GRIP LENGTH BUTTON HA		30.02	18
SUPPLIES		CASAA51491 VENDOR MANAGED RESTOCK		1,881.66	18
		CASAA51496 VENDOR MANAGED RESTOCK		1,260.36	18
MISCELLANEOUS		CASAA51521 QTY 4 12 GA SS SLOTTED BACK TO BACK, QTY 6		877.26	18
		CASAA51521 QTY 4 12 GA SS SLOTTED BACK TO BACK, QTY 6		648.63	18
MACHINERY AND EQUIP MAINT MATE		CASAA51522 QTY 8 316 STAINLESS STEEL 4 HOLE TALL DOUBL		635.41	18
		CASAA51568 QTY 1 12 GA STAINLESS STEEL SLOTTED BACK TO		219.32	18
SUPPLIES		CASAA51571 VENDOR MANAGED RESTOCK		715.46	18
MACHINERY AND EQUIP MAINT MATE		CASAA51607 VENDOR MANAGED RESTOCK		22.25	18
		CASAA51607 VENDOR MANAGED RESTOCK		3.26	18
		CASAA51607 VENDOR MANAGED RESTOCK		7.69	18
MISCELLANEOUS		CASAA51607 VENDOR MANAGED RESTOCK		70.23	18
FED EX	19925		136.68		
MACH & EQUIP MAINT SERVICES		571037667 THRU 2/17/17 FED EX CHARGES		16.71	18
ADMINISTRATIVE EXPENSES		571037667 THRU 2/17/17 FED EX CHARGES		57.78	18
CONTRUCTION-DESIGN		571037667 THRU 2/17/17 FED EX CHARGES		20.44	20
SUPPLIES		571037667 THRU 2/17/17 FED EX CHARGES		41.75	18
FIBERGRATE COMPOSITE STRUCTURE	19926		312.66		
MISCELLANEOUS		SIV99168106 QTY 50 CLIP ASSEMBLY F-2 316 SS		337.82	18
		SIV998168106TAX SALES TAX LIABILITY		-25.16	18

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FINTA ENTERPRISES, INC	19927		821.81		
CONTRACT SERV. (NON-MAINT.)		51661 1/24/17 GRIT HAULING		821.81	18
FISHER SCIENTIFIC COMPANY	19928		71.23		
SUPPLIES		9938077 LAB SUPPLIES		71.23	18
FITZGERALD LAW OFFICES	19929		7,822.20		
CONST.-ADMIN. & LEGAL		2242017C 1/17 PROF SVCS - CONVEYANCE SYSTEM		7,722.00	20
		2242017D REIM-1/17 PROF SVCS		100.20	20
FREYER & LAURETA, INC	19930		38,475.00		
CONSTRUCTION-DESIGN		17068 1/17 T.O. 2016-05 ENG SVCS-GEOTECHNICAL SAMPLING		1,520.00	20
		17068 1/17 T.O. 2016-05 ENG SVCS-GEOTECHNICAL SAMPLING		1,520.00	20
		17068 1/17 T.O. 2016-05 ENG SVCS-GEOTECHNICAL SAMPLING		1,520.00	20
		17068 1/17 T.O. 2016-05 ENG SVCS-GEOTECHNICAL SAMPLING		1,520.00	20
		17069 1/17 T.O. 2016-02 FEF-PROJ PLANNING REPORT PREP		4,811.66	20
		17069 1/17 T.O. 2016-02 FEF-PROJ PLANNING REPORT PREP		4,811.67	20
		17069 1/17 T.O. 2016-02 FEF-PROJ PLANNING REPORT PREP		4,811.67	20
CONSTRUCTION-CONTRACTOR		17070 1/17 T.O. 2016-03 PUMP STATION VALVE REPLACEMENT		4,925.00	14
		17070 1/17 T.O. 2016-03 PUMP STATION VALVE REPLACEMENT		4,925.00	14
CONSTRUCTION-DESIGN		17094 1/17 T.O. 2015-05 FLOW EQUALIZATION FACILITY IMP		1,140.00	20
		17095 1/17 T.O. 2016-01 TUNNEL&GRAVITY PIPELINE		6,970.00	20

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GRAINGER	19931		2,446.93		
MISCELLANEOUS		9347754369 RESTOCK ITEMS		134.77	18
		9352501143 RESTOCK ITEMS		33.41	18
		9352501143 RESTOCK ITEMS		200.43	18
MACHINERY AND EQUIP MAINT MATE		9356130469 QTY 5 WEATHERPROOF COVER BRONZE		131.75	18
		9356130477 RESTOCK ITEMS		139.80	18
		9356130477 RESTOCK ITEMS		95.10	18
		9356130477 RESTOCK ITEMS		8.33	18
		9356130477 RESTOCK ITEMS		164.56	18
SUPPLIES		9356273665 RESTOCK ITEMS		76.13	18
		9356273665 RESTOCK ITEMS		151.83	18
MACHINERY AND EQUIP MAINT MATE		9359405348 RESTOCK ITEMS		686.87	18
		9359405348 RESTOCK ITEMS		60.91	18
MISCELLANEOUS		9361301741 RESTOCK ITEMS		99.57	18
MACHINERY AND EQUIP MAINT MATE		9361301741 RESTOCK ITEMS		33.39	18
		9368735321 RESTOCK ITEMS		43.18	18
		9368735321 RESTOCK ITEMS		252.13	18
MISCELLANEOUS		9372643560 RESTOCK ITEMS		134.77	18
HACH COMPANY	19932		43.91		
SUPPLIES		10312277 QTY 1 NITROGEN NITRATE 1000 MG/L 500 ML		43.91	18
HILLYARD INC	19933		1,049.50		
MISCELLANEOUS		602419305 JANITOR SUPPLIES		221.34	18
		602419305 JANITOR SUPPLIES		199.97	18
		602419305 JANITOR SUPPLIES		184.60	18
		602419305 JANITOR SUPPLIES		254.20	18
		602419305 JANITOR SUPPLIES		189.39	18

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INORGANIC VENTURES	19934		260.76		
MISCELLANEOUS		177425INTAX SALES TAX LIABILITY		-9.98	18
		178018INTAX SALES TAX LIABILITY		-9.98	18
SUPPLIES		177425IN LAB SUPPLIES		140.36	18
		178018IN LAB SUPPLIES		140.36	18
JENTECH SERVICES	19935		6,969.20		
MACH & EQUIP MAINT SERVICES		2225 2/21-3/3/17 INSTRUMENT CALIBRATION		2,470.00	18
		2225 2/21-3/3/17 INSTRUMENT CALIBRATION		2,470.00	18
		2225 2/21-3/3/17 INSTRUMENT CALIBRATION		2,029.20	18
KELLER CANYON LANDFILL CO.	19936		2,665.58		
CONTRACT SERV. (NON-MAINT.)		4212000025221 12/23/16 GRIT HAULING		751.30	18
		4212000025411 2/13/17 GRIT HAULING		1,914.28	18
KELLER INDUSTRIES INC	19937		425.00		
MACHINERY AND EQUIP MAINT MATE		15367 QTY 4 REWORK DOOR CLONE SPOOLS		425.00	18
LARRY WALKER ASSOCIATES INC.	19938		647.50		
PROFESSIONAL SERVICES		64141 THRU 1/31/17 REGULATORY ASSISTANCE ON NPDES PERM		647.50	18
LENSCRAFTERS	19939		180.00		
SUPPLIES		1804955408 SAFETY GLASSES - JODY CRAVENS		180.00	18
LIEBERT CASSIDY WHITMORE	19940		4,975.20		
PROFESSIONAL SERVICES		1435312 THRU 1/31/17 WAGE AND HOUR AUDIT		46.00	18
		1435313 THRU 1/31/17 CALPERS AUDIT		375.00	18
		1435604 THRU 1/31/17 D.A. HALL MGMT PAY PERS APPEAL		4,554.20	18
LONG, JESSE	19941		129.66		
SUPPLIES		3102017 REIM-2/23/17 SAFETY SHOES		129.66	18

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MADCO WELDING SUPPLY CO SUPPLIES	19942	G49435 2/14/17 GAS RENTAL	963.48	963.48	18
MARINA MECHANICAL MACH & EQUIP MAINT SERVICES	19943	87260 2/15/17 CHILLER REPAIR	1,099.66	1,099.66	18
MCMASTER-CARR SUPPLY CO. MACHINERY AND EQUIP MAINT MATE	19944	13859441 QTY 1 TOOL POSITIONER 1-10# LOAD RANGE NYLON	28.32	28.32	18
METRO MOBILE COMMUNICATIONS MACH & EQUIP MAINT SERVICES	19945	53917 1/20/17 PROGRAM SERVICE 2 CHANNELS TO PORTABLE R	125.00	125.00	18
MONTEREY MECHANICAL CO. CONSTRUCTION-CONTRACTOR	19946	32POM10437 12/16-2/17 PRG PMT#32 SOLIDS PROCESS AUTOMA 32POM10437 12/16-2/17 PRG PMT#32 SOLIDS PROCESS AUTOMA 32POM10437 12/16-2/17 PRG PMT#32 SOLIDS PROCESS AUTOMA	284,672.24	94,890.75 94,890.74 94,890.75	20 20 20
MOTION INDUSTRIES INC. MACHINERY AND EQUIP MAINT MATE SUPPLIES	19947	CA24002224 QTY 3 BV 1" NPT SPRING RETURN SS CA24998864 QTY 2 DRUM POLY STORAGE SHED	7,525.87	502.79 7,023.08	18 18
MSC INDUSTRIAL SUPPLY CO. INC MACHINERY AND EQUIP MAINT MATE	19948	69013727 QTY 2 KING FLOWMETER 69161737 QTY 3 KING FLOWMETER	405.42	162.17 243.25	18 18
NAVIA BENEFIT SOLUTIONS ADMINISTRATIVE EXPENSES	19949	10076307 2/17 PARTICIPANT FEE	160.00	160.00	18
NETWORK INNOVATIONS US INC MACH & EQUIP MAINT SERVICES	19950	6101109020 10/16 NETWORK INNOVATIONS SVC ANNUAL FEE	377.45	377.45	18

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NEWARK ELEMENT14	19951		117.41		
MISCELLANEOUS		28763134 QTY 4 FLUKE 1AC A1 II		117.41	18
NEXLEVEL INFORMATION TECHNOLOG	19952		800.00		
CONST.-ADMIN. & LEGAL		20170225 2/17 ERP PROCUREMENT ENGAGEMENT		800.00	20
O.K. LUMBER COMPANY	19953		658.93		
MISCELLANEOUS		411304 QTY 5 RAPID SET 10# CEMENT ALL		78.30	18
MACHINERY AND EQUIP MAINT MATE		411753 QTY 25 60# QUIKRETE CONCRETE MIX, QTY 5 ACX PLY		152.25	18
MISCELLANEOUS		411753 QTY 25 60# QUIKRETE CONCRETE MIX, QTY 5 ACX PLY		374.00	18
MACHINERY AND EQUIP MAINT MATE		411753 QTY 25 60# QUIKRETE CONCRETE MIX, QTY 5 ACX PLY		54.38	18
OFFICE DEPOT	19954		423.40		
OFFICE SUPPLIES		906311546001 OFFICE SUPPLIES		226.22	18
SUPPLIES		906311546001 OFFICE SUPPLIES		125.68	18
OFFICE SUPPLIES		907000219001 OFFICE SUPPLIES		27.37	18
		907000990001 OFFICE SUPPLIES		44.13	18
OGASAWARA LANDSCAPE MAINTENANC	19955		2,850.00		
CONTRACT SERV. (NON-MAINT.)		23890A 2/17 LANDSCAPE SERVICE AND PLANTING BEDS		2,850.00	18
ORATECH CONTROLS, INC.	19956		308.04		
MACHINERY AND EQUIP MAINT MATE		21697 QTY 11 WIPER BLADE REPLACEMENT		81.56	18
MISCELLANEOUS		21697 QTY 11 WIPER BLADE REPLACEMENT		226.48	18
OTIS ELEVATOR COMPANY	19957		5,986.00		
MACH & EQUIP MAINT SERVICES		SJ17073001 1/24/17 OTIS MACHINE ADJUST DAMAGED ELEVATO		5,986.00	18
PACE SUPPLY CORP	19958		93.63		
MACHINERY AND EQUIP MAINT MATE		93739258 QTY 3 BALL VALVE RED PORT S/S BODY AND TRIM		93.63	18

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PACIFIC GAS AND ELECTRIC COMPA UTILITIES	19959		9,838.48		
		222201719225 1/13-2/13/17 SCPS ELEC UTIL		5,342.88	18
		222201788673 1/13-2/13/17 BLPS ELEC UTIL		3,460.45	18
		222201790892 1/13-2/13/17 1406 GAS AND ELEC UTIL		488.97	18
		222201790892 1/13-2/13/17 1406 GAS AND ELEC UTIL		546.18	18
PALO ALTO ELECTRIC MOTOR CORP. MACH & EQUIP MAINT SERVICES	19960		8,557.44		
		RI4265 2/9/17 REBUILD SCPS MOTOR		8,557.44	18
PEOPLEREADY INC CONTRACT SERV. (NON-MAINT.)	19961		2,480.00		
		21867877 1/30/17 - 2/5/17 UTILITY WORKERS TEMPORARY ST		496.00	18
		21894504 2/6/17 - 2/12/17 UTILITY WORKER TEMPORARY STA		1,984.00	18
PERKINELMER HEALTH SCIENCES IN SUPPLIES	19962		494.33		
		5303797005 QTY 3 REPL AIR FILTER ELEMENT FOR N077532		494.33	18
POLYDYNE, INC. CHEMICAL SUPPLIES	19963		20,010.00		
		1116317 2/22/17 18400 CLARIFLOC C-6265		15,410.00	18
		1116317 2/22/17 18400 CLARIFLOC C-6265		4,600.00	18
POWER ENGINEERING CONSTRUCTION CONSTRUCTION-CONTRACTOR MACH & EQUIP MAINT SERVICES	19964		12,130.04		
		155902 7/31/16-2/16/17 FOOD WASTE DESIGN		9,830.04	20
		161001 REPLACEMENT 18" PIPE		2,300.00	18
QPCS LLC MACH & EQUIP MAINT SERVICES	19965		3,779.80		
		13303 1/17/17 DOOR SERVICES ON FRONT GATE		779.80	18
		13430 1/1/17-6/30/17 QPCS TECHNICAL SUPPORT IT SERVICE		3,000.00	18
QUINCY COMPRESSOR LLC MACHINERY AND EQUIP MAINT MATE MISCELLANEOUS	19966		3,964.47		
		775299 QTY 2 KIT FILTER CARTRIDGE QUINCY		1,946.91	18
		775981 QTY 4 AIR FILTER FOR LAB AIR COMPRESSOR		70.65	18
		778409 QTY KIT FILTER QUINCY		1,946.91	18

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R & B COMPANY	19967		2,795.14		
MACHINERY AND EQUIP MAINT MATE		S1621614001 PLUMBING PARTS		138.85	18
		S1621614001 PLUMBING PARTS		28.54	18
		S1621614001 PLUMBING PARTS		154.72	18
		S1621614001 PLUMBING PARTS		372.86	18
		S1621614001 PLUMBING PARTS		178.97	18
		S1621614001 PLUMBING PARTS		29.64	18
		S1621614001 PLUMBING PARTS		8.64	18
		S1621614001 PLUMBING PARTS		26.47	18
		S1621614001 PLUMBING PARTS		16.78	18
		S1621614001 PLUMBING PARTS		121.80	18
MISCELLANEOUS		S1623321001 QTY 2 12X5" STEEL SPOOL 12 BOLT #150 FLANG		1,717.87	18
R-SQUARED ENGINEERING, INC.	19968		4,718.63		
MACHINERY AND EQUIP MAINT MATE		117434 QTY 1 GEAR JOINT SHELL		335.39	18
MISCELLANEOUS		117435 QTY 1 ROTOR, QTY 8 GEAR JOINT SEAL RET, QTY 1 G		202.00	18
		117435 QTY 1 ROTOR, QTY 8 GEAR JOINT SEAL RET, QTY 1 G		2,687.52	18
		117435 QTY 1 ROTOR, QTY 8 GEAR JOINT SEAL RET, QTY 1 G		830.68	18
		117436 QTY 2 GEAR JOINT SHELL		663.04	18
REDWOOD CITY, CITY OF - FINANC	19969		1,651.60		
SUPPLIES		BR42417 11/16/16-12/15/16 FUEL CHARGES		711.20	18
		BR42896 12/16/16-1/15/17 FUEL CHARGES		940.40	18
REDWOOD CITY, CITY OF - WATER	19970		156.14		
UTILITIES		222201732690 12/22/16-2/22/17 379 GREENDALE WATER SERV		156.14	18

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ROYAL WHOLESALE ELECTRIC	19971		6,909.29		
MACHINERY AND EQUIP MAINT MATE		7003628750 QTY 4 ELECTROLET, QTY 10 COND BODY & COVER		143.46	18
		7003628750 QTY 4 ELECTROLET, QTY 10 COND BODY & COVER		232.64	18
MISCELLANEOUS		7003628760 QTY 1.5 AL LB CONDUIT BODY, QTY 16 .5 125-2		152.83	18
		7003628760 QTY 1.5 AL LB CONDUIT BODY, QTY 16 .5 125-2		157.14	18
MACHINERY AND EQUIP MAINT MATE		7003630071 QTY 15 HIGH BAY LED LT FX		6,223.22	18
S & S SUPPLIES AND SOLUTIONS	19972		3,423.76		
MISCELLANEOUS		S2956643001 QTY 4 GAS ALERTMAX MONITOR XT 02 LEL H2S C		1,648.17	18
SUPPLIES		S2956643001 QTY 4 GAS ALERTMAX MONITOR XT 02 LEL H2S C		1,662.26	18
		S2961539001 QTY 4 PK FILTER HYDROPHOBIC BW TECH		72.98	18
		S2961539002 QTY 2 PK FILTER HYDROPHOBIC BW TECH		40.35	18
SAFETY COMPLIANCE MANAGEMENT I TRAINING	19973		495.00		
		7872 2/22/17 CONFINED SPACE ENTRY REFRESHER TRAINING		495.00	18
SAN MATEO COUNTY MOSQUITO AND CONTRACT SERV. (NON-MAINT.)	19974		72.44		
		SM1700014 1/31/17 MOSQUITO AND VECTOR CONTROL		72.44	18
SANDUL, DUANE	19975		1,700.00		
PROFESSIONAL SERVICES		2SVCW2017 2/17 PROFESSIONAL SERVICES		1,700.00	18
STATIONARY ENGINEERS LOCAL 39	19976		70.00		
MISCELLANEOUS		3102017 ONE TIME UNION INITIATION FEE-RON SANCHEZ-PPE		70.00	11
SUBURBAN PROPANE LP	19977		24.00		
UTILITIES		22584 1/14/17 PROPANE EQUIPMENT RENTAL		12.00	18
		43109 2/14/17 PROPANE EQUIPMENT RENTAL		12.00	18
SYNAGRO TECHNOLOGIES INC	19978		28,047.15		
CONTRACT SERV. (NON-MAINT.)		3102792 1/17 BIOSOLIDS HAULING		28,047.15	18

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TANNER PACIFIC, INC.	19979		79,063.22		
CONSTRUCTION-CONTRACTOR		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		1,352.00	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		3,644.10	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		85.00	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		1,904.00	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		9,495.50	20
CONSTRUCTION-DESIGN		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		1,242.00	20
CONSTRUCTION-CONTRACTOR		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		4,254.00	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		1,106.00	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		13,273.00	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		12,125.00	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		2,578.62	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		8,169.50	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		3,428.00	20
		217015 2/12-2/25/17 T.O. 2016-01 CONSTRUCTION MGMT VAR		10,015.00	20
PROFESSIONAL SERVICES		217016 2/12-2/25/17 T.O. 2016-03 CONSTRUCTION ADVISORY		3,960.00	18
CONSTRUCTION-CONSTRUCTION MGMT		217017 2/12-2/25/17 T.O. 2016-07 PUMP STATION VALVE RE		1,215.75	14
		217017 2/12-2/25/17 T.O. 2016-07 PUMP STATION VALVE RE		1,215.75	14
TECHNICAL SAFETY SERVICES, INC	19980		375.00		
MACH & EQUIP MAINT SERVICES		IN0176715 1/11/17 LABOR - TEST FUME HOOD LABORATORY EQ		375.00	18
TOOLAND, INC.	19981		165.29		
SUPPLIES		440709 SKILL SAW BLADES AND BRAKE CARTRIDGE		165.29	18
TOYOTA MATERIAL HANDLING	19982		35.39		
MISCELLANEOUS		C27924 QTY 6 CLAMP HOLD DOWN ELECTRIC CART		35.39	18
TSUKUSHI, RICHARD	19983		180.00		
MACH & EQUIP MAINT SERVICES		5135 2/22/17 BACKFLOW SVC RCPS		90.00	18
		5135 2/22/17 BACKFLOW SVC RCPS		90.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
UNIVAR USA INC.	19984		19,483.33		
CHEMICAL SUPPLIES		SJ799697 2/12/17 4078 GAL SOD HYPO 12.5%		1,820.50	18
		SJ799950 2/15/17 4683.466 GAL SOD BISULFITE 25%		4,298.72	18
		SJ800032 2/15/17 4500 SOD HYPO 12.5%		2,008.89	18
		SJ800553 2/18/17 3721.77 GAL SOD BISULFITE 25%		3,416.03	18
		SJ800593 2/20/17 3701 GAL SOD HYPO 12.5%		1,652.20	18
		SJ801089 2/22/17 2098.79 GAL SOD BISULFITE 25%		1,926.37	18
		SJ801456 2/17/17 2499 GAL SOD HYPO 12.5%		1,115.60	18
		SJ801466 2/21/17 3772 GAL SOD HYPO 12.5% LIQUICHLOR		1,683.90	18
		SJ801564 2/25/17 3497 GAL SOD HYPO 12.5%		1,561.12	18
USA BLUE BOOK	19985		605.27		
MACHINERY AND EQUIP MAINT MATE		109077 CREDIT MEMO QTY 2 BLUE-WHITE FLOWMETER		-806.49	18
MISCELLANEOUS		155636 QTY 1 GOULDS CENTRIFUGAL 3/4 HP		573.88	18
MACHINERY AND EQUIP MAINT MATE		187945 QTY 2 BLUE-WHITE F-451N FLOWMETER		33.24	18
		187945 QTY 2 BLUE-WHITE F-451N FLOWMETER		804.64	18
V&A CONSULTING ENGINEERS, INC.	19986		2,552.00		
CONSTRUCTION-CONTRACTOR		16593 1/17 ENG SVCS CCT COATING		2,552.00	20
VALLEY OIL COMPANY	19987		295.80		
MISCELLANEOUS		36866 2/6/17 EMPTY DRUMS		295.80	18
VALLEY OIL COMPANY (VEHICLE FU	19988		734.08		
SUPPLIES		446929 2/3-2/15/17 FUEL CHARGES COMPANY VEHICLES		537.18	18
		448306 2/16-2/28/17 FUEL CHARGES COMPANY VEHICLES		196.90	18
VERIZON WIRELESS	19989		1,687.89		
UTILITIES		9780630190 1/20-2/19/17 VERIZON SERVICE		1,601.85	18
		9780630191 1/20-2/19/17 VERIZON SERVICE		76.02	18
		9780927763 1/24-2/23/17 VERIZON SERVICE		10.02	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
VWR INTERNATIONAL, LLC	19990		801.13		
SUPPLIES		8047565964 QTY 3 NOISE BLOCKING EARMUFFS		104.50	18
		8047570239 QTY 3 INOCULATING LOOPS DISP PK		131.51	18
MISCELLANEOUS		8047631979 QTY 4 CS JAR WM CLR W/PTFE 8OZ CS12		225.16	18
SUPPLIES		8047638413 QTY 1 NITROGEN NO3 1000MG/L 500 ML		30.34	18
		8047647307 LAB SUPPLIES		166.17	18
		8047647307 LAB SUPPLIES		80.37	18
		8047680243 QTY 1 STANDARD 1000PPM NITRITE N/H2O, 125 M		63.08	18
WANDRO, ROBERT	19991		45.00		
UTILITIES		3102017 REIM-1/18-2/17/17 AT&T CELL PHONE CHARGES		45.00	18
WELLS FARGO-COMML OPERATIONS	19992		3,965.91		
INTEREST EXPENSES		1710251873 LOC#7829596836 STATEMENT 2/17/17		1,064.45	20
		1710251873 LOC#7829596836 STATEMENT 2/17/17		374.78	20
		1710251873 LOC#7829596836 STATEMENT 2/17/17		1,926.24	20
		1710251873 LOC#7829596836 STATEMENT 2/17/17		600.44	20
WESTERN ENERGY SYSTEMS	19993		19,939.52		
MACHINERY AND EQUIP MAINT MATE		3716381 QTY 1 BLOCK HEATER, COOLANT SYSTEM JENBACHER		1,279.28	18
MACH & EQUIP MAINT SERVICES		3717679 1/17 LTSA SERVICE AGREEMENT UNIT 1		9,819.84	18
		3717680 1/17 LTSA SERVICE AGREEMENT UNIT 2		8,840.40	18
WESTERN EXTERMINATOR	19994		1,023.15		
CONTRACT SERV. (NON-MAINT.)		4744522 12/16 EXTERMINATOR SERVICE GREENDALE		1,023.15	18
WESTIN ENGINEERING, INC.	19995		6,500.00		
CONTRACT SERV. (NON-MAINT.)		3100 1/28-2/24/17 PROFESSIONAL SERVICES SUPPORT		6,500.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
WRA ENVIRONMENTAL CONSULTANTS	19996		9,186.92		
CONTRUCTION-DESIGN		201711628704 1/17 T.O. 2015-03 BIOLOGICAL & PERMIT SVC		805.74	20
		201711628704 1/17 T.O. 2015-03 BIOLOGICAL & PERMIT SVC		805.76	20
		201711628704 1/17 T.O. 2015-03 BIOLOGICAL & PERMIT SVC		805.76	20
		201711628704 1/17 T.O. 2015-03 BIOLOGICAL & PERMIT SVC		805.76	20
		201711628704 1/17 T.O. 2015-03 BIOLOGICAL & PERMIT SVC		805.76	20
		201711828703 1/17 T.O. 2016-01 BIOLOGICAL & PERMIT SVC		1,048.56	20
		201711828703 1/17 T.O. 2016-01 BIOLOGICAL & PERMIT SVC		38.13	20
		201711828703 1/17 T.O. 2016-01 BIOLOGICAL & PERMIT SVC		19.07	20
		201711828703 1/17 T.O. 2016-01 BIOLOGICAL & PERMIT SVC		76.26	20
		201711828703 1/17 T.O. 2016-01 BIOLOGICAL & PERMIT SVC		228.78	20
		201711828703 1/17 T.O. 2016-01 BIOLOGICAL & PERMIT SVC		38.13	20
		201711828703 1/17 T.O. 2016-01 BIOLOGICAL & PERMIT SVC		133.46	20
		201711828703 1/17 T.O. 2016-01 BIOLOGICAL & PERMIT SVC		104.86	20
		201711828703 1/17 T.O. 2016-01 BIOLOGICAL & PERMIT SVC		114.39	20
		201711828703 1/17 T.O. 2016-01 BIOLOGICAL & PERMIT SVC		104.86	20
		201711928702 1/17 T.O. 2016-02 2017 CA RIDGWAY RAIL SU		487.75	20
		201711928702 1/17 T.O. 2016-02 2017 CA RIDGWAY RAIL SU		487.75	20
		201711928702 1/17 T.O. 2016-02 2017 CA RIDGWAY RAIL SU		1,788.39	20
		201711928702 1/17 T.O. 2016-02 2017 CA RIDGWAY RAIL SU		487.75	20
WREGIS	19997		13.66		
UTILITIES		27432 5/10/16 ISSUANCE/CREATED VOLUME FEE		2.58	18
		27779 6/10/16 ISSUANCE/CREATED VOLUME FEE		2.41	18
		28146 7/10/16 ISSUANCE/CREATED VOLUME FEE		0.72	18
		28829 9/10/16 ISSUANCE/CREATED VOLUME FEE		0.50	18
		29161 10/10/16 ISSUANCE/CREATED VOLUME FEE		0.41	18
		29534 11/10/16 ISSUANCE/CREATED VOLUME FEE		2.16	18
		29883 12/10/16 ISSUANCE/CREATED VOLUME FEE		2.34	18
		30243 1/10/17 ISSUANCE/CREATED VOLUME FEE		2.54	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
XEROX CORPORATION	19998		474.27		
RENTAL/LEASES		87956025 2/17 XEROX LEASE		239.39	18
		87956028 12/21/16-1/25/17 XEROX LEASE		59.96	18
		87956030 12/21/16-1/25/17 XEROX LEASE		39.95	18
		87956032 12/21/16-1/25/17 XEROX LEASE		134.97	18

TOTAL

\$866,637.91

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SVCW WARRANT REGISTER

SVCW Warrant Register for the period covering March 11, 2017 to March 24, 2017. A scanned copy was e-mailed to Commissioners on March 27, 2017.

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FUND RECAP

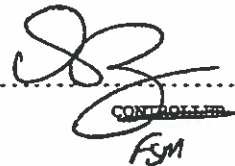
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NAME	FUND	AMOUNT
RETIREE HEALTH INSUR. FD.	12	36,242.94
CAPITAL IMPROVEMENT FUND	14	15,168.50
OPERATION	18	351,563.31
PLANT - CIP BOND	20	735,267.31
TOTAL FOR APPROVAL		\$1,138,242.06



THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 9665 THROUGH 9684 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 20035 THROUGH 20137 INCLUSIVE, TOTALING IN THE AMOUNT OF \$1,138,242.06, HAVE BEEN CHECKED IN DETAIL AND APPROVED BY THE PROPER OFFICIALS, AND IN MY OPINION REPRESENT FAIR AND JUST CHARGES AGAINST THE AUTHORITY IN ACCORDANCE WITH THEIR RESPECTIVE AMOUNTS AS INDICATED THEREON.

RESPECTFULLY SUBMITTED,


.....
CONTROLLER
FSM

3/23/17

DATE

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DiAPA 3-22-17

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
AKELA, ARVIND	20035		212.16		
UTILITIES		3242017 REIM-1/17 CELL PHONE CHARGE		45.00	18
MEMB. & MEET.		3242017A REIM-1/20/17 CWEA-SFBS JANUARY ANNUAL AWARDS		55.00	18
		3242017B REIM-2/14/17 PARKING FEE, CALRECYCLE WORKSHOP		18.00	18
		3242017C REIM-2/21/17 PARKING & TOLL CHARGE, RETHINK M		23.00	18
		3242017D REIM-2/21/17 MILEAGE TO RETHINK METHANE SYMPO		71.16	18
AT&T	20036		326.41		
UTILITIES		307201701511 3/7-4/6/17 SCPS AT&T SERVICE		66.89	18
		307201715339 3/7-4/6/17 MPPS AT&T SERVICE		94.19	18
		307201724836 3/7-4/6/17 RWCPS AT&T SERVICE		98.44	18
		307201796059 3/7-4/6/17 BLPS AT&T SERVICE		66.89	18
ATMOSPHERIC ANALYSIS & CONSULT CONTRACT SERV. (NON-MAINT.)	20037		445.00		
		A16648 ANALYSIS & REPORTING - SILOXANES		445.00	18
BANNER BANK	20038		2,220.05		
CONSTRUCTION-CONTRACTOR		8APOM10673 12/1/16-1/31/17 PRG PMT 8A WET SIDE REDUNDA		2,220.05	20
BRYAN, WILLIAM	20039		2,906.64		
CONF. & TRAV.		3242017 REIM-7/11-7/14/16 TRAVEL&MEAL EXPENSE WEF NUTR		2,181.64	18
		3242017A REIM-7/15/16 WEFTEC REGISTRATION FOR 9/16		725.00	18
BUCKLES SMITH ELECTRIC COMPANY	20040		30,197.13		
SUPPLIES		302442401 SCADA PLC RS LINK AND FACTORY TALK		17,417.50	18
		302442400 SCADA PLC RS LINK AND FACTORY TALK		11,636.25	18
MACHINERY AND EQUIP MAINT MATE		302678100 QTY 1 MICROLOGIX CONTROLER AND QTY 1 ANALOG		791.91	18
		302678100 QTY 1 MICROLOGIX CONTROLER AND QTY 1 ANALOG		351.47	18
C.W.E.A. - TCP	20041		172.00		
MEMB. & MEET.		451441I CWEA ASSOCIATION MEMBERSHIP-FRANCIS JOHN ROONEY		172.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CALIFORNIA DETAILERS, INC.	20042		275.00		
MACH & EQUIP MAINT SERVICES		43734 3/11/17 FLEET VEHICLE ON-SITE WASH		275.00	18
CALIFORNIA WATER SERVICE CO	20043		260.80		
UTILITIES		3152017 2/14-3/14/17 SCPS WATER SERVICES		260.80	18
CALPERS - FISCAL SERVICES DIVI	20044		35,000.00		
RETIREE MEDICAL PAYMENTS		3242017 3/17 PREFUNDING OPEB		35,000.00	12
CALTEST ANALYTICAL LABORATORY	20045		836.10		
CONTRACT SERV. (NON-MAINT.)		570077 NPDES PERMIT LAB ANALYSIS		836.10	18
CASCADE INTEGRATION & DEVELOPM	20046		11,530.00		
CONSTRUCTION-DESIGN		1271 2/1-2/28/17 T.O. 2016-01 SOLIDS PROCESSING AUTOMA		3,510.00	20
		1271 2/1-2/28/17 T.O. 2016-01 SOLIDS PROCESSING AUTOMA		3,510.00	20
		1271 2/1-2/28/17 T.O. 2016-01 SOLIDS PROCESSING AUTOMA		3,510.00	20
PROFESSIONAL SERVICES		1270 12/1/16-2/28/17 SCADA SUPPORT		1,000.00	18
CDM SMITH INC.	20047		29,285.00		
CONSTRUCTION-DESIGN		90009135 2/28/16-12/31/16 T.O. 2015-06 DIESEL PUMP UPG		3,613.50	20
		90011856 THRU 1/28/17 T.O. 2016-04 HEADWORKS & SCREENI		12,954.00	20
		805508391 10/1/15-2/27/16 T.O. 2015-06 DIESEL PUMP UPG		12,717.50	20
CDW GOVERNMENT, INC.	20048		742.14		
MACHINERY AND EQUIP MAINT MATE		HBS1582 QTY 2 APC REPLACE BATTERY CART		742.14	18
CINTAS CORPORATION NO. 3	20049		769.72		
SUPPLIES		464722718 3/14/17 LAUNDRY SERVICE		769.72	18
COLLABORATIVE STRATEGIES CONSU	20050		10,275.00		
CONSTRUCTION-DESIGN		10501SV1216 11/23-12/16/16 T.O. 2017-01 ACQUISITION SV		6,390.00	20
		11501SV0117 12/17/16-1/12/17 T.O. 2017-01 ACQUISITION		3,885.00	20

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NAME	WARRANT	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CONCERN	20051		4,950.00		
PROFESSIONAL SERVICES		CN1709004 3/1/17-2/28/18 FLAT ANNUAL RATE		4,950.00	18
COUNTY OF SAN MATEO - AIRPORT	20052		97,300.00		
CONST.-ADMIN. & LEGAL		3242017 4/17 PERMIT#5384-LEASE PYMNT SAN CARLOS AIRPOR		97,300.00	20
COVELLO GROUP INC., THE	20053		14,500.00		
CONSTRUCTION-CONTRACTOR		201303440 2/17 T.O. 2013-02 GLOBAL CM CIP PROJECTS		14,500.00	20
CRYSTAL JANITORIAL SERVICE, IN	20054		4,011.00		
CONTRACT SERV. (NON-MAINT.)		28740 3/2017 JANITORIAL SERVICES		4,011.00	18
D.W. NICHOLSON CORPORATION	20055		44,750.69		
CONSTRUCTION-CONTRACTOR		7379 THRU 1/31/17 FLOW METER INSTALLATION		44,750.69	20
DALY, MICK	20056		90.00		
UTILITIES		310201706128 REIMB 1/11/17-3/10/17 AT&T CHARGES		90.00	18
DONALDSON, ROBERT M.	20057		1,242.94		
RETIREE MEDICAL PAYMENTS		REISS816 REISS CK#18172 DTD 7/28/16 FOR 8/16		621.47	12
		REISS916 REISS CK#18488 DTD 8/30/16 FOR 9/16		621.47	12
EDGLEY, KIP D.	20058		20,679.46		
CONSTRUCTION-DESIGN		228SV1702 1/30-2/26/17 LABOR IN CA		12,123.00	20
		228SV1702A 1/30-2/26/17 LABOR OUTSIDE CA		4,725.00	20
		228SV1702B REIM-1/30-2/26/17 TRAVEL EXPENSE		4,680.07	20
MISCELLANEOUS		228SV1702C 7% NON RESIDENT W/H		-848.61	20
ELLISON, SCHNEIDER, HARRIS & D	20059		416.00		
CONSTRUCTION-DESIGN		28488 1/26/17 LEGAL ENERGY CONSULTING SVCS-PG&E RULE21		416.00	20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
ENDRESS+HAUSER, INC	20060		552.14		
MACHINERY AND EQUIP MAINT MATE		6001866200 QTY 3 ITEMP HEAD TRANSMITTER PCP		180.66	18
MISCELLANEOUS		6001866200 QTY 3 ITEMP HEAD TRANSMITTER PCP		371.48	18
ENVIRO-CARE INC	20061		5,450.00		
CONSTRUCTION-CONTRACTOR		PILOT21530310 12/7/16-1/6/17 PILOT 215303-30 DAY TEST		5,450.00	20
ENVIRONMENTAL EXPRESS, INC	20062		268.39		
SUPPLIES		1000455808 QTY 2 FILTERS FOR TSS, 125 MM		268.39	18
EVOQUA WATER TECHNOLOGIES LLC	20063		9,806.42		
CHEMICAL SUPPLIES		902989127 2/16/17 4294 GAL CALCIUM NITRATE SCPS		9,806.42	18
FASTENAL COMPANY	20064		3,698.20		
MACHINERY AND EQUIP MAINT MATE		CASAA51569 QTY 1 3/8" DIA X 10' LONG ASTM A615 STEEL R		22.14	18
SUPPLIES		CASAA51668 VENDOR MANAGED RESTOCK		800.77	18
		CASAA51670 VENDOR MANAGED RESTOCK		1,049.19	18
MACHINERY AND EQUIP MAINT MATE		CASAA51677 VENDOR MANAGED RESTOCK		1,189.16	18
MISCELLANEOUS		CASAA51826 VENDOR MANAGED RESTOCK		111.53	18
MACHINERY AND EQUIP MAINT MATE		CASAA51827 VENDOR MANAGED RESTOCK		241.20	18
		CASAA51827 VENDOR MANAGED RESTOCK		284.21	18
FENTON, CHARLES	20065		34,794.84		
CONST.-ADMIN. & LEGAL		67 11/21-12/16/16 LABOR IN CA		15,600.00	20
		68 12/19/16-1/13/17 LABOR IN CA		10,985.00	20
		67A 11/21-12/16/16 LABOR OUTSIDE CA		1,462.50	20
		67B REIM-11/21-12/16/16 TRAVEL EXPENSE		3,266.85	20
MISCELLANEOUS		67C 7% NON RESIDENT W/H		-1,092.00	20
CONST.-ADMIN. & LEGAL		68A 12/19/16-1/13/17 LABOR OUTSIDE CA		3,120.00	20
		68B REIM-12/19/16-1/13/17 TRAVEL EXPENSE		2,221.44	20
MISCELLANEOUS		68C 7% NON RESIDENT W/H		-768.95	20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
FIELDMAN, ROLAPP & ASSOCIATES	20066		12,680.50		
PROFESSIONAL SERVICES		23018 2/10-2/28/17 DEBT POLICY DRAFT		1,545.50	18
CONST.-ADMIN. & LEGAL		23019 2/13-2/28/17 WIFIA LOAN SUPPORT & MODELING		11,135.00	20
FINTA ENTERPRISES, INC	20067		4,384.49		
CONTRACT SERV. (NON-MAINT.)		51870 2/7/17 GRIT HAULING		940.50	18
		51870 2/7/17 GRIT HAULING		38.06	18
		52061 2/24/17 GRIT HAULING		1,410.75	18
		52061 2/24/17 GRIT HAULING		38.06	18
		52062 2/17/17 GRIT HAULING		992.75	18
		52062 2/17/17 GRIT HAULING		38.06	18
		52063 2/13/17 GRIT HAULING		888.25	18
		52063 2/13/17 GRIT HAULING		38.06	18
FLUID COMPONENTS INTERNATIONAL	20068		10,338.36		
MISCELLANEOUS		1109816TAX SALES TAX LIABILITY		-144.20	18
		1109816 QTY 1 INSERTION AIR/GAS MASS FLOW METER		5,405.02	18
		1109816 QTY 1 INSERTION AIR/GAS MASS FLOW METER		5,077.54	18
PONG, PETER	20069		211.43		
CONF. & TRAV.		3242017 REIM-2/26-2/28/17 MEAL EXPENSE		127.53	18
		3242017A REIM-3/1/17 BRIDGE TOLL FEE, GOLDEN GATE BRID		7.50	18
		3242017B REIM-2/26-3/1/17 MILEAGE FOR 2017 CWEA P3S CO		76.40	18
FRANK A. OLSEN CO.	20070		1,002.76		
MACHINERY AND EQUIP MAINT MATE		237474 QTY 1 WATERMAN STEM GUIDE ASSEMBLY		1,002.76	18
FREYER & LAURETA, INC	20071		11,120.00		
CONTRUCTION-DESIGN		17096 1/17 T.O. 2014-04 CONVEYANCE SYS PROG		170.00	20
		17096 1/17 T.O. 2014-04 CONVEYANCE SYS PROG		170.00	20
CONSTRUCTION-CONTRACTOR		17122 2/17 T.O. 2016-03 PUMP STATION VALVE REPLACEMENT		5,390.00	14
		17122 2/17 T.O. 2016-03 PUMP STATION VALVE REPLACEMENT		5,390.00	14

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
FRONTIER ANALYTICAL LABORATORY	20072		800.00		
CONTRACT SERV. (NON-MAINT.)		19786 LABORATORY ANALYSIS CONTRACT NPDES PERMIT LEVEL		800.00	18
GALLAGHER BENEFIT SERVICES, IN	20073		39,000.00		
PROFESSIONAL SERVICES		111211 THRU 1/24/17 COMPENSATION STUDY - PHASE III		39,000.00	18
GILBERT, AARON	20074		218.78		
TRAINING		3242017 REIM-2/14-2/17/17 TRAVEL&MEAL EXPENSE FOR SVCW		218.78	18
GLOBAL KNOWLEDGE TRAINING LLC	20075		5,084.40		
TRAINING		21805076 TRAINING COURSES FOR SOCORRO RAMILO ONLINE CL		5,084.40	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
GRAINGER	20076		5,685.20		
MISCELLANEOUS		9371088981 RESTOCK ITEMS		200.43	18
		9371088981 RESTOCK ITEMS		167.04	18
		9371088981 RESTOCK ITEMS		200.45	18
MACHINERY AND EQUIP MAINT MATE		9372643578 RESTOCK ITEMS		33.40	18
		9375279552 QTY 60 CLAMP RING COPPER		35.89	18
		9375732881 RESTOCK ITEMS		109.19	18
		9375732881 RESTOCK ITEMS		65.51	18
		9375732881 RESTOCK ITEMS		110.93	18
MISCELLANEOUS		9375732881 RESTOCK ITEMS		230.06	18
		9375732881 RESTOCK ITEMS		108.45	18
MACHINERY AND EQUIP MAINT MATE		9375732899 QTY 12 TEE, LOW LEAD BRASS PEX 1" TUBE		143.16	18
		9375732907 RESTOCK ITEMS		96.31	18
		9375732907 RESTOCK ITEMS		413.21	18
		9379108997 QTY 6 PLUG IN RELAY 8 PINS, QTY 6 RELAY SOC		61.07	18
		9379108997 QTY 6 PLUG IN RELAY 8 PINS, QTY 6 RELAY SOC		33.67	18
		9380358599 RESTOCK ITEMS		287.25	18
		9380358599 RESTOCK ITEMS		65.54	18
		9380358599 RESTOCK ITEMS		65.90	18
MISCELLANEOUS		9380358599 RESTOCK ITEMS		29.45	18
		9380358599 RESTOCK ITEMS		1,854.74	18
MACHINERY AND EQUIP MAINT MATE		9380755331 QTY 20 CLAMP RING COPPER 3/8" TUBE		11.97	18
SUPPLIES		9380956848 QTY 1 UTILITY CART 500LB LOAD CAP		236.87	18
		9383046936 RESTOCK ITEMS		44.17	18
MISCELLANEOUS		9383864098 RESTOCK ITEMS		617.62	18
SUPPLIES		9386257191 RESTOCK ITEMS		190.74	18
MISCELLANEOUS		9386575063 RESTOCK ITEMS		33.31	18
		9386575063 RESTOCK ITEMS		71.25	18
		9386575063 RESTOCK ITEMS		65.42	18
MACHINERY AND EQUIP MAINT MATE		9387205348 RESTOCK ITEMS		39.26	18
		9387205348 RESTOCK ITEMS		62.94	18

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GRAINGER	20077		237.87		
MACHINERY AND EQUIP MAINT MATE		9387205355 RESTOCK ITEMS		145.35	18
		9387513659 RESTOCK ITEMS		92.52	18
HANSON BRIDGETT LLP	20078		12,893.50		
PROFESSIONAL SERVICES		1184891 1/17 LEGAL SVCS-PUBLIC WORKS CONTRACTING&INFRA		12,893.50	18
HARRINGTON INDUST PLASTICS	20079		739.14		
MACHINERY AND EQUIP MAINT MATE		3K6276 QTY 1 3" VALVE BALL TUBV, QTY 1 NUT SQ 2" FOR 3		621.68	18
		3K6276 QTY 1 3" VALVE BALL TUBV, QTY 1 NUT SQ 2" FOR 3		117.46	18
HILLYARD INC	20080		691.03		
MISCELLANEOUS		602460096 JANITOR SUPPLIES		103.53	18
		602460096 JANITOR SUPPLIES		330.50	18
		602460096 JANITOR SUPPLIES		105.49	18
		602460096 JANITOR SUPPLIES		151.51	18
IDEXX DISTRIBUTION, INC	20081		528.37		
SUPPLIES		3013173329 QTY 3 GAMMA IRRAD COLILERT 18		528.37	18
JENTECH SERVICES	20082		6,353.60		
MACH & EQUIP MAINT SERVICES		2226 3/7-3/16/17 INSTRUMENT CALIBRATION		570.00	18
		2226 3/7-3/16/17 INSTRUMENT CALIBRATION		380.00	18
		2226 3/7-3/16/17 INSTRUMENT CALIBRATION		950.00	18
		2226 3/7-3/16/17 INSTRUMENT CALIBRATION		2,660.00	18
		2226 3/7-3/16/17 INSTRUMENT CALIBRATION		1,793.60	18
JM SQUARED & ASSOCIATES, INC.	20083		15,328.42		
MISCELLANEOUS		1177160 QTY 1 ROTATING ASSEMBLY SS		15,328.42	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
KELLER CANYON LANDFILL CO.	20084		1,767.68		
CONTRACT SERV. (NON-MAINT.)		4212000025470 2/17/17 GRIT HAULING		1,643.51	18
		4212000025470 2/17/17 GRIT HAULING		32.50	18
		4212000025470 2/17/17 GRIT HAULING		88.42	18
		4212000025470 2/17/17 GRIT HAULING		3.25	18
KENNEDY/JENKS CONSULTANTS, INC	20085		36,216.77		
CONTRUCTION-DESIGN		108984 10/29/16-1/27/17 T.O.2016-08 GRAVITY SEWER CONS		3,231.50	20
		109611 THRU 2/24/17 T.O. 2015-05 DUAL MEDIA FILTERS 6A		32,985.27	20
MADCO WELDING SUPPLY CO	20086		848.76		
RENTAL/LEASES		9042 2/14/17 CYLINDER RENTAL		100.00	18
SUPPLIES		G49687 3/9/17 GAS RENTAL		748.76	18
MARINA MECHANICAL	20087		3,837.75		
MACH & EQUIP MAINT SERVICES		8155 2/17 MAINTENANCE AGREEMENT		2,633.75	18
		8263 3/17 MAINTENANCE AGREEMENT		1,204.00	18
MARINE SCIENCE INSTITUTE	20088		8,696.00		
CONTRACT SERV. (NON-MAINT.)		9352 4/17 RWC DISCOVERY VOYAGE-COMMUNITY OUTREACH & ED		4,318.00	18
		9362 5/17 DISCOVERY VOYAGE REDWOOD CITY		4,378.00	18
MCMASTER-CARR SUPPLY CO.	20089		605.79		
MACHINERY AND EQUIP MAINT MATE		18871649 QTY 2 LIQUID OPERATED MAINTENANCE FREE JET PU		605.79	18
MICRO MOTION INC	20090		1,098.55		
MACHINERY AND EQUIP MAINT MATE		40414603 QTY 200 HIGH PERFORMANCE ELECTRICAL COMBO CAB		1,098.55	18
MID-PENINSULA WATER DISTRICT	20091		264.59		
UTILITIES		228201751500 1/25-2/25/17 BLPS WATER SERVICE		264.59	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
MISCO WATER	20092		284,690.84		
CONSTRUCTION-CONTRACTOR		11514PABR 2/16/17 PROPOSAL# P-1126 EQUIPMENT, LABOR, &		284,690.84	20
MOTION INDUSTRIES INC.	20093		116.75		
MISCELLANEOUS		CA24001716 QTY 6 PIPE SEALANT		116.75	18
NATIONAL FIRE PROTECTION ASSOC	20094		315.00		
MEMB. & MEET.		6929599Y NATIONAL FIRE PROTECTION MEMBERSHIP FEE		315.00	18
NEWARK ELEMENT14	20095		1,066.99		
MACHINERY AND EQUIP MAINT MATE		28577951 QTY 2 PANEL ENCLOSURE AND QTY 2 JUNCTION BOX		68.58	18
		28577951 QTY 2 PANEL ENCLOSURE AND QTY 2 JUNCTION BOX		651.55	18
		28577952 QTY 1 UPS 120V 300W DIN RAIL		346.86	18
OFFICE DEPOT	20096		255.31		
OFFICE SUPPLIES		910902405001 OFFICE SUPPLIES		243.43	18
SUPPLIES		910902405001 OFFICE SUPPLIES		11.88	18
PACE SUPPLY CORP	20097		341.98		
MISCELLANEOUS		93764405 QTY 9 WELD GRAY PVC CEMENT, QTY 5 WELD CLEAR		146.72	18
		93764405 QTY 9 WELD GRAY PVC CEMENT, QTY 5 WELD CLEAR		119.90	18
		93764405 QTY 9 WELD GRAY PVC CEMENT, QTY 5 WELD CLEAR		75.36	18
PACIFIC GAS AND ELECTRIC COMPA	20098		1,994.11		
UTILITIES		76188044 1/17 PG&E ELEC DEPARTING LOAD CHARGE		1,994.11	18
PENINSULA BATTERY, INC.	20099		437.00		
MACHINERY AND EQUIP MAINT MATE		119946 QTY 4 6V DEEP CYCLE J250G TROAJAN BATTERIES		437.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
PEOPLEREADY INC	20100		6,417.00		
CONTRACT SERV. (NON-MAINT.)		21929160 2/20-2/26/17 UTILITY WORKER TEMPORARY STAFF O		992.00	18
		21945975 2/13-2/19/17 UTILITY WORKER TEMPORARY STAFF O		2,201.00	18
		21967869 2/27-3/5/17 UTILITY WORKER TEMPORARY STAFF OP		2,480.00	18
		21970393 2/20-2/24/17 UTILITY WORKER TEMPORARY STAFF O		744.00	18
PITNEY BOWES	20101		292.02		
RENTAL/LEASES		3101098538 4/10-7/9/17 LEASE - POSTAGE MACHINE		292.02	18
POLYDYNE, INC.	20102		20,010.00		
CHEMICAL SUPPLIES		1120149 3/6/17 18400 CLARIFLOC C-6265		20,010.00	18
POWER ENGINEERING CONSTRUCTION	20103		9,000.00		
CONSTRUCTION-CONTRACTOR		171601 3/9/17 CAMERA INSTALLATION		9,000.00	20
PURE TEC INDUSTRIAL WATER	20104		373.00		
MACH & EQUIP MAINT SERVICES		1543584 DI-WATER SYSTEM MAINTENANCE SERVICE		76.00	18
		1545916 3/1-5/31/17 DI-WATER SYSTEM MAINTENANCE SERVIC		42.00	18
		1545917 3/1-5/31/17 DI-WATER SYSTEM MAINTENANCE SERVIC		38.09	18
		1545917 3/1-5/31/17 DI-WATER SYSTEM MAINTENANCE SERVIC		216.91	18
QPCS LLC	20105		779.80		
MACH & EQUIP MAINT SERVICES		REISS13303 REISS CK#19965 DTD 3/10/17		779.80	18
R & B COMPANY	20106		210.51		
MACHINERY AND EQUIP MAINT MATE		S1631292001 PLUMBING PARTS		103.86	18
		S1632649001 PLUMBING PARTS		94.36	18
		S1632649001 PLUMBING PARTS		12.29	18
R-SQUARED ENGINEERING, INC.	20107		892.03		
MISCELLANEOUS		117441 QTY 8 GR JOINT SL SUPP, QTY 12 GR JOINT SL		552.21	18
		117441 QTY 8 GR JOINT SL SUPP, QTY 12 GR JOINT SL		339.82	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
RECOLOGY PENINSULA SERVICES	20108		1,411.00		
CONTRACT SERV. (NON-MAINT.)		63784 2/14/17 20 YARD DEBRIS BOX		592.00	18
		63785 2/9/17 30 YD DEBRIS BOX		819.00	18
RED WING SHOE STORE	20109		702.87		
SUPPLIES		7152 1/17 SAFETY SHOES-MICK DALY AND OSCAR REYES		453.71	18
		8152 1/13/17 SAFETY SHOES - BRIAN BRUEMMER		249.16	18
REDWOOD CITY, CITY OF - FINANC	20110		18,099.85		
PROFESSIONAL SERVICES		BR43278 2/28/17 1099/W-2 FORMS		33.39	18
		BR43304 2/17 ACCOUNTING SERVICES		11,119.55	18
MACH & EQUIP MAINT SERVICES		BR43349 1/16-2/15/17 VEHICLE REPAIR/MTN CHARGES		5,389.67	18
SUPPLIES		BR43360 1/16-2/15/17 FUEL CHARGES		1,557.24	18
REDWOOD CITY, CITY OF - WATER	20111		5,207.31		
UTILITIES		228201706774 1/28-2/28/17 RCPS WATER		56.99	18
		228201719903 1/28-2/28/17 1406 WATER, SEWER, GARBAGE,		188.50	18
		228201719929 1/28-2/28/17 1406 FIRE SERVICE		97.46	18
		228201786984 1/28-2/28/17 PLANT WATER, GARBAGE SERVICE		4,864.36	18
RKI INSTRUMENTS INC.	20112		504.82		
MACHINERY AND EQUIP MAINT MATE		318125 QTY 1 SENSOR H2S, QTY 1 PCB ASSY H2S		401.51	18
		318125 QTY 1 SENSOR H2S, QTY 1 PCB ASSY H2S		103.31	18
RODAN BUILDERS, INC	20113		42,180.95		
CONSTRUCTION-CONTRACTOR		8POM10673 12/1/16-1/31/17 PRG PMT 8 WET SIDE REDUNDANT		42,180.95	20
ROONEY, FRANCIS	20114		69.23		
CONF. & TRAV.		3242017 REIM-2/27-3/1/17 TRAVEL&MEAL EXPENSE P3 CONFER		69.23	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
ROTO-ROOTER	20115		6,233.00		
MACH & EQUIP MAINT SERVICES		19319411531 SEWER SERVICE		1,516.00	18
		19319421554 SEWER SERVICE		655.00	18
		19319452067 SEWER SERVICE		4,062.00	18
ROYAL WHOLESALE ELECTRIC	20116		573.04		
MACHINERY AND EQUIP MAINT MATE		7003630689 QTY 1 POWER PLUG DISCONNECT 05 CODE		41.96	18
MISCELLANEOUS		7003631230 QTY 50 VARIOUS CORD CONNECTOR STRAIN RELIEF		240.55	18
		7003631230 QTY 50 VARIOUS CORD CONNECTOR STRAIN RELIEF		148.02	18
MACHINERY AND EQUIP MAINT MATE		7003631770 QTY 100 USA 3/4X1/2 RED BUSH		142.51	18
S & S SUPPLIES AND SOLUTIONS	20117		1,429.90		
MISCELLANEOUS		S2946323002 QTY 4 BW SR-X2V SENSOR OXYGEN 02		799.38	18
MACHINERY AND EQUIP MAINT MATE		S2946323003 QTY 1 BW TECH DOCK2 AUTOMATIC TEST & CALIB		557.55	18
SUPPLIES		S2961539003 QTY 4 BW TECH XT-RF-H5 FILTER HYDROPHOBIC		72.97	18
SAN FILIPPO, JOHN	20118		135.00		
UTILITIES		2252017 REIMB 11/26/16-2/25/17 AT&T CHARGES CELL PHONE		135.00	18
SANDUL, DUANE	20119		800.00		
CONTRUCTION-DESIGN		14B 2/17 T.O.2016-01 CONVEYANCE SYS CEQA		16.00	20
		14B 2/17 T.O.2016-01 CONVEYANCE SYS CEQA		8.00	20
		14B 2/17 T.O.2016-01 CONVEYANCE SYS CEQA		44.00	20
		14B 2/17 T.O.2016-01 CONVEYANCE SYS CEQA		440.00	20
		14B 2/17 T.O.2016-01 CONVEYANCE SYS CEQA		96.00	20
		14B 2/17 T.O.2016-01 CONVEYANCE SYS CEQA		32.00	20
		14B 2/17 T.O.2016-01 CONVEYANCE SYS CEQA		44.00	20
		14B 2/17 T.O.2016-01 CONVEYANCE SYS CEQA		16.00	20
		14B 2/17 T.O.2016-01 CONVEYANCE SYS CEQA		48.00	20
		14B 2/17 T.O.2016-01 CONVEYANCE SYS CEQA		56.00	20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
STATE WATER RESOURCES CONTROL TRAINING	20120	2222017 SWRCB JEFFREY HUBBARD GRADE II OPERATOR CERTIF	230.00	230.00	18
STEVEN ENGINEERING INC. MACHINERY AND EQUIP MAINT MATE	20121	241815600 QTY 1 RED LION PANEL METER	319.82	319.82	18
SUBURBAN PROPANE LP UTILITIES	20122	1644014820 2/24/17 PROPANE	391.66	391.66	18
SYNAGRO TECHNOLOGIES INC CONTRACT SERV. (NON-MAINT.)	20123	3102820 2/17 BIOSOLIDS HAULING	51,423.22	51,423.22	18
TANNER PACIFIC, INC. CONSTRUCTION-CONTRACTOR	20124	217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI	85,091.21	13,285.00	20
CONSTRUCTION-DESIGN		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		584.00	20
CONSTRUCTION-CONTRACTOR		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		1,440.00	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		3,846.00	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		6,236.50	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		9,433.27	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		5,703.44	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		5,176.00	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		16,285.00	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		930.00	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		1,892.00	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		6,891.00	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		7,924.50	20
		217019 2/26-3/11/17 T.O.2016-01 CONSTRUCTION MGMT VARI		1,076.00	20
CONSTRUCTION-CONSTRUCTION MGMT		217020 2/26-3/11/17 T.O.2016-07 PS VALVE REPLACEMENT P		2,194.25	14
		217020 2/26-3/11/17 T.O.2016-07 PS VALVE REPLACEMENT P		2,194.25	14

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TELEPACIFIC COMMUNICATIONS	20125		9,899.08		
UTILITIES		885184110 3/9-4/8/17 TELEPACIFIC SERVICE		1,000.00	18
		885184110 3/9-4/8/17 TELEPACIFIC SERVICE		1,000.00	18
		885184110 3/9-4/8/17 TELEPACIFIC SERVICE		1,000.00	18
		885184110 3/9-4/8/17 TELEPACIFIC SERVICE		2,949.53	18
		885184110 3/9-4/8/17 TELEPACIFIC SERVICE		2,949.55	18
		885184110 3/9-4/8/17 TELEPACIFIC SERVICE		1,000.00	18
THOMAS FISH CO.	20126		126.00		
SUPPLIES		21528 QTY 110 RAINBOW TROUT		126.00	18
TSI INCORPORATED	20127		663.21		
SMALL TOOLS		90872413 QTY 1 AIR VELOCITY METER		663.21	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
U.S. BANK CORPORATE PAYMENT SY	20128		9,374.61		
SUPPLIES		2222017BB1 1/23/17 SOFTWARE LICENSE MS 0365 - MICROSOFT		100.00	18
		2222017BB2 1/27/17 SERVER ROOM RACK BLANK PANELS - DAT		327.38	18
MEMB. & MEET.		2222017BB3 2/7/17 MEMBERSHIP RENEWAL WEF - WEF WYTHE		247.00	18
SUPPLIES		2222017BB4 2/7/17 SERVER ROOM RACK BLANK PANELS - DATA		327.38	18
		2222017BB5 2/10/17 SHIPPING MATERIALS FOR CISCO BLADE		15.50	18
CONF. & TRAV.		2222017DC1 1/24/17 TRAVEL CHARGE REIMBURSED CHK#250 DT		61.13	18
MEMB. & MEET.		2222017DC2 2/8/17 TRAVEL EXPENSE TRANSPORTATION TO CSR		20.00	18
		2222017DC3 2/16/17 TRAVEL EXPENSE MEAL WIFIA MEETING -		13.91	18
		2222017DC4 2/16/17 TRAVEL EXPENSE BREAKFAST WIFIA MEET		35.00	18
SUPPLIES		2222017DC5 2/17/17 FUEL CHARGE - PILOT		58.54	18
		2222017DC6 2/17/17 FUEL CHARGE - PILOT		36.00	18
MEMB. & MEET.		2222017DC7 2/17/17 TRAVEL EXPENSE HOTEL WIFIA MEETING		391.59	18
		2222017DC8 2/17/17 TRAVEL EXPENSE HOTEL WIFIA MEETING		391.59	18
		2222017DC9 2/17/17 TRAVEL EXPENSE MEAL - UNITED		8.99	18
TRAINING		2222017DM9 2/9/17 CWEA BBQ - A TOOL SHED		320.00	18
CONF. & TRAV.		2222017EM1 1/25/17 REGISTRATION FEE NV RURAL WATER ASS		330.00	18
MEMB. & MEET.		2222017EM2 1/25/17 MEMBERSHIP RENEWAL NV RURAL WATER A		70.00	18
TRAINING		2222017EM3 1/31/17 MEMBERSHIP RENEWAL WEF B HUFFSTUTLE		312.00	18
MEMB. & MEET.		2222017EM4 2/2/17 CERTIFICATION RENEWAL CWEA LAB ANALY		83.00	18
UTILITIES		2222017EM5 2/7/17 WATER BILL MPPS 1/17-2/17 ACCT#61946		288.08	18
TRAINING		2222017EM6 2/14/17 MEMBERSHIP RENEWAL CWEA/WEF J BRUBA		243.00	18
CONF. & TRAV.		2222017EM7 2/18/17 HOTEL REGISTRATION WW TECH TRAINER		441.93	18
SUPPLIES		2222017IS1 2/1/17 EMPLOYEE RECOGNITION EVENT SUPPLIES		9.00	18
		2222017IS2 2/8/17 COMM MEETING REFRESHMENTS - NOB HILL		20.72	18
		2222017IS3 2/13/17 SVCW HATS - CUSTOMNK LLC		1,755.23	18
MACHINERY AND EQUIP MAINT MATE		2222017JD2 2/13/17 QTY 1 AIR STARTER-A/M SALES AND SER		2,205.46	18
SUPPLIES		2222017LB1 2/2/17 TOLL CHARGES - FASTRAK		160.00	18
SMALL TOOLS		2222017LB2 2/16/17 COMMERCIAL ALUMINUM COFFEE MAKER -		133.28	18
CONF. & TRAV.		2222017MA1 1/30/17 SWRCB PARKING FEE - CITY OF SACRAME		7.50	18
		2222017MA2 2/3/17 WIFIA RESEARCH TRAVEL EXPENSE - UNIT		961.40	18

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U.S. BANK CORPORATE PAYMENT SY	20129		4,369.50		
CONF. & TRAV.		2222017MA3 2/3/17 WIFIA RESEARCH TRAVEL EXPENSE - UNIT		961.40	18
		2222017MA4 2/16/17 TRAVEL EXPENSE MEAL WIFIA MEETING -		8.69	18
		2222017MA5 2/16/17 TRAVEL EXPENSE MEAL - PARADIES		12.02	18
		2222017MA6 2/16/17 TRAVEL EXPENSE MEAL - UNITED		9.99	18
		2222017MA7 2/16/17 TRAVEL EXPENSE MEAL - UNITED		4.59	18
		2222017MA8 2/16/17 TRAVEL EXPENSE EARLY FLIGHT FEE - U		150.00	18
		2222017MA9 2/16/17 TRAVEL EXPENSE TAXI		14.44	18
MACH & EQUIP MAINT SERVICES		2222017MH1 1/24/17 SVCW VEHICLE SERVICE - AUTO PRIDE		69.47	18
SUPPLIES		2222017TH1 1/24/17 SOFTWARE DICTIONARY/THESAURUS APP -		4.99	18
MEMB. & MEET.		2222017TH2 1/30/17 MEAL EXPENSE SWRCB MEETING - VELA C		20.76	18
		2222017TH3 2/7/17 MEAL EXPENSE PROGR DESIGN CONTRC OUT		54.94	18
CONF. & TRAV.		2222017VV1 2/13/17 DBIA CONFERENCE REGISTRATION T HERR		350.00	18
		2222017VV2 2/13/17 DBIA CONFERENCE REGISTRATION C FENT		700.00	18
		2222017VV3 2/13/17 DBIA CONFERENCE REGISTRATION B BURN		700.00	18
		2222017VV4 2/15/17 MEAL CHARGE DBIA - T HERRERA		55.00	18
SUPPLIES		2222017VV5 2/16/17 SVCW HOSTED CWEA DINNER FOOD SUPPLI		87.43	18
		2222017VV5 2/16/17 SVCW HOSTED CWEA DINNER FOOD SUPPLI		87.43	18
MEMB. & MEET.		2222017DC10 2/17/17 TRAVEL EXPENSE MEAL - UNITED		19.98	18
SUPPLIES		2222017DC11 2/18/17 FUEL CHARGE - PILOT		75.00	18
		2222017DC12 2/21/17 FUEL CHARGE - PILOT		68.50	18
		2222017DC13 2/21/17 FUEL CHARGE - PILOT		31.75	18
TRAINING		2222017DM10 2/14/17 CWEA BBQ - A 1 PARTY RENTAL		193.75	18
		2222017DM12 2/14/17 CWEA BBQ - COSTCO		343.09	18
CONF. & TRAV.		2222017DM15 2/15/17 CALIFORNIA WATER ENVIRONMENT 2017		635.00	18
MISCELLANEOUS		2222017BB2TAX SALES TAX LIABILITY		-2.08	18
		2222017BB4TAX SALES TAX LIABILITY		-2.08	18
		2222017IS3TAX SALES TAX LIABILITY		-141.23	18
		2222017JD2TAX SALES TAX LIABILITY		-131.69	18
		2222017JD4TAX SALES TAX LIABILITY		-2.45	18
		2222017LB2TAX SALES TAX LIABILITY		-9.19	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
U.S. BANK CORPORATE PAYMENT SY	20130		7,710.53		
MISCELLANEOUS		2222017DM11TAX SALES TAX LIABILITY		-1.91	18
		2222017DM13TAX SALES TAX LIABILITY		-4.83	18
MACH & EQUIP MAINT SERVICES		2222017DM1 1/25/17 HYDRAULIC LEAK REPAIR-GARTON TRACTO		519.60	18
SUPPLIES		2222017DM11 2/14/17 QTY 1 BASE MAKITA-TOOL PARTS DIREC		31.71	18
MISCELLANEOUS		2222017DM13 2/16/17 QTY 4 CABLE TIE HEAVY DUTY-AMAZON		60.07	18
MACHINERY AND EQUIP MAINT MATE		2222017DM14 2/15/17 QTY 100 FY TUBES-EARTHLED ADVANCED		2,173.91	18
MACH & EQUIP MAINT SERVICES		2222017DM18 2/17/17 QTY 1 CALIBRATION TRANSDUCER-FLEXI		859.52	18
TRAINING		2222017DM19CRED 2/21/17 CWEA BBQ CREDIT - A TOOL SHED		-11.00	18
SUPPLIES		2222017DM2 1/30/17 QTY 2 THERMOCOUPLE ASSEMBLY-AMAZON		885.80	18
MACHINERY AND EQUIP MAINT MATE		2222017DM3 1/31/17 QTY 1 REPLACEMENT TAIL LIGHT-AMAZON		32.43	18
SMALL TOOLS		2222017DM4 1/31/17 QTY 4 HEAVY DUTY MOP ACCESSORIES-HO		47.76	18
		2222017DM4 1/31/17 QTY 4 HEAVY DUTY MOP ACCESSORIES-HO		73.87	18
		2222017DM5 2/1/17 QTY 4 MOP WRINGER-HOME DEPOT		283.27	18
MACH & EQUIP MAINT SERVICES		2222017DM6 2/2/17 30 YARD DEBRIS BOX-RECOLOGY SAN JOSE		819.00	18
SMALL TOOLS		2222017DM7 2/2/17 QTY 2 50' VERTICAL LIFE LINE 5/8"-MO		219.47	18
MACHINERY AND EQUIP MAINT MATE		2222017DM8 2/8/17 QTY 2 Z115 HIGH PRESSURE DISCHARGE-C		103.71	18
		2222017JD1 2/6/17 WINDOW FILM APPLICATION KIT-HOME DEP		5.99	18
		2222017JD1 2/6/17 WINDOW FILM APPLICATION KIT-HOME DEP		10.85	18
		2222017JD1 2/6/17 WINDOW FILM APPLICATION KIT-HOME DEP		26.17	18
SMALL TOOLS		2222017JD3 2/14/17 SELF DUMPING HOPPERS REPAIR-GLOBAL		70.63	18
		2222017JD3 2/14/17 SELF DUMPING HOPPERS REPAIR-GLOBAL		256.60	18
		2222017JD3 2/14/17 SELF DUMPING HOPPERS REPAIR-GLOBAL		504.19	18
		2222017JD3 2/14/17 SELF DUMPING HOPPERS REPAIR-GLOBAL		674.25	18
SUPPLIES		2222017JD4 2/16/17 BIO MEDIA AQUARIUM FILTER AND CERAM		39.13	18
		2222017JD4 2/16/17 BIO MEDIA AQUARIUM FILTER AND CERAM		30.34	18
UNIVAR USA INC.	20131		5,927.40		
CHEMICAL SUPPLIES		SJ304502 CREDIT MEMO - 3732 OF 4800 GL SOD HYPO 12.5%		-1,666.04	18
		SJ801834 2/28/17 4800 GAL SOD HYPO 12.5% LIQUICHLOR		2,142.81	18
		SJ801919 2/24/17 4104 GAL SOD BISULFITE 25%		3,767.63	18
		SJ802036 2/23/17 3770 SOD HYPO 12.5% LIQUICHLOR		1,683.00	18

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
US POSTAL SERVICE (POSTAGE-BY- OFFICE SUPPLIES	20132	3242017 POSTAGE REFILL - A/C 18400358	350.00	350.00	18
VWR INTERNATIONAL, LLC SUPPLIES	20133	8047808390 LAB SUPPLIES	280.88	254.69	18
		8047808390 LAB SUPPLIES		26.19	18
WATER ENVIRONMENT FEDERATION MEMB. & MEET.	20134	RE90BE16 MEMBERSHIP FEE RENEWAL FOR BOB WANDRO	312.00	312.00	18
WATSON-MARLOW INC MISCELLANEOUS	20135	SI032576TAX SALES TAX LIABILITY	2,199.41	-151.20	18
		SI032651TAX SALES TAX LIABILITY		-32.03	18
		SI032576 QTY 6 LOADSURE MARPRENE, QTY 6 1M 19MM BORE P		685.13	18
		SI032576 QTY 6 LOADSURE MARPRENE, QTY 6 1M 19MM BORE P		1,261.55	18
		SI032651 QTY 2 1M 19MMBORE PVC TUBING WITH 3/4 PP FEMA		435.96	18
WESTERN WEATHER GROUP INC SMALL TOOLS	20136	14045 QTY 1 CAMPBELL SCIENTIFIC CR800 DTALOGGER	2,647.48	2,647.48	18
XEROX CORPORATION RENTAL/LEASES	20137	88305875 3/17 XEROX LEASE	3,789.77	351.19	18
		87724772 1/17 XEROX LEASE		911.62	18
		88305869 3/17 XEROX LEASE		363.63	18
		88305870 3/17 XEROX LEASE		254.26	18
		88305871 3/17 XEROX LEASE		275.32	18
		88305872 3/17 XEROX LEASE		249.72	18
		89305873 3/17 XEROX LEASE		425.06	18
		88305874 3/17 XEROX LEASE		958.97	18
TOTAL			\$1,138,242.06		

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SVCW WARRANT REGISTER

SVCW Warrant Register dated March 31, 2017 for Retiree Health. A scanned copy was e-mailed to Commissioners on March 27, 2017.

03-31-17

SILICON VALLEY CLEAN WATER
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FUND RECAP

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NAME	FUND	AMOUNT
RETIREE HEALTH INSUR. FD.	12	21,785.14
TOTAL FOR APPROVAL		\$21,785.14

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 9660 THROUGH 9664 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 19999 THROUGH 20034 INCLUSIVE, TOTALING IN THE AMOUNT OF \$21,785.14, HAVE BEEN CHECKED IN DETAIL AND APPROVED BY THE PROPER OFFICIALS, AND IN MY OPINION REPRESENT FAIR AND JUST CHARGES AGAINST THE AUTHORITY IN ACCORDANCE WITH THEIR RESPECTIVE AMOUNTS AS INDICATED THEREON.

RESPECTFULLY SUBMITTED,

.....
CONTROLLER

3/17/17
DATE

3/31/17

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
FLAHERTY, LISA M.	19999		788.74		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		788.74	12
LEACH, PRESTON L.	20000		172.48		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		172.48	12
REEVES, DENNIS D.	20001		472.96		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
REYES, CESAR V.	20002		472.96		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
SCHIECHL, WARREN	20003		196.21		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		196.21	12
WIDGER, RICHARD	20004		1,338.78		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		1,338.78	12
BAKER, ANDREW	20005		1,223.22		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		1,223.22	12
BEWLEY, JAMES B.	20006		472.96		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
BOVE, LEONARD F.	20007		605.39		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		605.39	12
BUENROSTRO, BENJAMIN	20008		1,338.78		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		1,338.78	12
BUSCH, JOSEPH A.	20009		172.48		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		172.48	12

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CHAPMAN, ROBERT G	20010		905.87		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		905.87	12
DIAZ, CLARA L.	20011		261.76		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		261.76	12
DONALDSON, ROBERT M.	20012		605.39		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		605.39	12
FAZIO, MICHAEL	20013		172.48		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		172.48	12
FORD, LARENCE	20014		472.96		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
GERKE, FRED	20015		605.39		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		605.39	12
GROSSO, LORNA	20016		172.48		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		172.48	12
HALL, DAVID A.	20017		1,778.81		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		1,778.81	12
HERNANDEZ, JOHN M.	20018		472.96		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
JONES, REGGIE H.	20019		196.21		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		196.21	12
KAUFMAN, KENNETH J	20020		172.48		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		172.48	12

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
KELLY, DIANE L.	20021		579.26		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		579.26	12
KERTZ, FELIX J.	20022		172.48		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		172.48	12
KLOKKE, KARL W.	20023		579.26		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		579.26	12
MA, PO KUI	20024		472.96		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
MURRAY, GENE RODGER	20025		901.24		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		901.24	12
PINEDO, JESSE	20026		472.96		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
POSCH, MICHAEL A.	20027		472.96		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
SMITH, JULIE	20028		1,338.78		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		1,338.78	12
SMITH, RAYMOND C.	20029		520.42		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		520.42	12
STORMS, VERNON GARY	20030		772.02		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		772.02	12
SUTER, KATHERINE J.	20031		472.96		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		472.96	12

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
TAYLOR, TERRY M.	20032		905.87		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		905.87	12
VON SEEBACH, NANCY	20033		579.26		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		579.26	12
WOODSTOCK, CRAIG M.	20034		472.96		
RETIREE MEDICAL PAYMENTS		417 04/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
TOTAL				\$21,785.14	

**WWTP IMPROVEMENTS PHASE 2 OWNER'S ADVISORY SERVICES
KENNEDY/JENKS TASK ORDER**ISSUE

Approval of Task Order for Owners Advisory Services for the Wastewater Treatment Plant Improvements Phase 2.

BACKGROUND

The original wastewater treatment plant has been operating for more than 35 years and requires rehabilitation and replacement due to ageing infrastructure. Many of the treatment plant processes and systems have been upgraded over the past 9 years under WWTP Improvements Phase 1 work of the Capital Improvement Program (CIP). This task order consists of capital improvements projects defined under WWTP Improvements Phase 2.

Silicon Valley Clean Water (SVCW) staff made a recommendation to the Commission in December 2016 to use a Design-Build procurement process for implementing the conveyance system design and construction. Staff has considered the approach to the design build process and is recommending preparing a package for design build for WWTP Improvements Phase 2 that includes the following projects:

- Replacement of Aeration Blowers (CIP #9186)
- Dual Media Filter (DMF) Pump and Discharge Piping Replacement (CIP #9189)
- Seismic Upgrade of DMF 42-in Effluent Piping (CIP #9084)
- RAS Pump Suction Pipe Replacement (CIP #9120)
- Backup Cooling Water for three standby generators in SHB (In-Plant Recycled Water System Expansion) (CIP #9197)
- FEP Connection to Chlorine Mix Box (CIP #9224)

In a design-build process, the designer and contractor are a single entity with whom the Owner enters into a single contract to accomplish the identified project. There are two common ways to enter into a design-build procurement process; Lump Sum Design-Build or Progressive Design-Build. Under Lump Sum, the Design-Build entity prepares a lump sum cost for the entire project at the proposal stage of the project, whereas under Progressive Design-Build, the Design-Build entity brings the design to a certain level (approximately 60%) and then prices the project.

Under the Lump Sum method, the Request for Proposal (RFP) needs to be very specific and prescriptive (typically at the 30% design level) in what the Owner requires and leaves little room for Owner input to the design at the higher stages of the project since the Design-Build entity has already provided a cost and is held accountable to that cost. This form of design-build is typically used when innovative and highly complex design/construction projects are not part of the overall project. Under the Progressive Design-Build process, the RFP contains much less prescriptive requirements and allows flexibility to both the Owner and Design-Builder to innovate, value engineer, and design to the prescribed performance standards up to the point of entering the final negotiated contract.

After reviewing the projects included under WWTP Improvements Phase 2, the different procurement methods, and the fundamental rationale for using design-build, it is clear to staff that the set of projects under this package will benefit from using a Lump Sum Design-Build process. The main advantage to SVCW in this particular case is in the ability to specify those aspects of the work most critical to treatment process functionality. The Requests for Proposal will have detailed requirements brought to the 30% design level, thus ensuring that the Design-Builder incorporates the critical aspects while using their own methods for bringing efficiencies to the project on other, less critical design and construction aspects.

It is customary for Owners to use engineering firms as an “Owner’s Advisor” in the Design–Build process. The Owner’s Advisor prepares the procurement documents (to 30% design in this case), provides advice to the Owner throughout the life of the project, helps procure the design-builder, establishes design standards, provides independent technical analyses, and performs independent review during the design-build process. This agenda item seeks authorization for Kennedy/Jenks to provide Owner Advisory Services for the design-build package. Kennedy/Jenks has very thorough understanding of all of the projects defined above, with significant prior experience as Owner’s Advisors for Design Build projects.

DISCUSSION

The procurement process involves two steps: the Request for Qualifications phase and the Request for Proposals phase. The first task of the Owner’s Advisor services is to prepare the Request for Qualifications. Preparing the RFQ involves meetings with SVCW staff to define the qualifications sought in a Design-Build entity, working with the Authority’s attorney to define important contractual factors, responding to questions during the qualifications phase, and ultimately reviewing and evaluating the Statements of Qualifications with SVCW staff. The end result of this phase is a shortlist of Design-Build entities who will receive a Request for Proposal. Typically, three to four shortlisted Design-Build entities are invited to propose. The Owner’s Advisor prepares the RFP after meetings with SVCW staff, assists in the workshops, evaluations, and ultimate selection of a Design-Build entity.

In the Request for Proposals phase, a preliminary design, with approximately 30% design, is developed to provide enough details for the short-listed Design-Build entities to estimate the project cost based upon their preferred approach to complete the project. Since the selection is based upon low cost along with the highest and best value, it offers the opportunity for Design-Build entities to come up with innovative ideas to design and construct the project in a most-cost effective manner.

The SVCW project manager has worked with Kennedy/Jenks to develop a scope of work to provide Owner’s Advisor services for the WWTP Improvements Phase 2. The scope of work includes the following tasks:

- Project Management
- Prepare Request for Qualifications (RFQ)
- Prepare Request For Proposals
- Develop Bridging Documents (30% design drawings and specifications)
- Review DB Engineer-of-Record Design Documents throughout design completion
- Engineering Support Services during Construction (or Observation)
- Engineer Support Services during Start-up & Commissioning

The duration of these work efforts is expected to be 20 months, through the completion of the overall project, currently anticipated to be in December 2018.

The not-to-exceed budget for the negotiated scope of work is \$445,450. Invoicing for the work will be on a time-and-expense basis.

FINANCIAL IMPACT

These task orders will be funded from six CIP Projects (as listed above) #9186, 9189, 9084, 9120, 9197 and 9224, the combined anticipated cost of these projects in the SVCW 2015 CIP Update is \$5,192,799. To date, a total of \$35,198 has been expended from the six projects collectively.

RECOMMENDATION

Move approval of TASK ORDER SCOPE OF WORK AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENTS –PHASE 2 PROJECT (CIP #9186, 9189, 9084, 9120, 9197 AND 9224) IN AN AMOUNT NOT TO EXCEED \$445,450 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – KENNEDY/JENKS CONSULTANTS

**ENERGY STORAGE AND SOLAR SYSTEM
EVALUATION AND PROCUREMENT**

ISSUE

Evaluation of Energy Storage and Solar System at SVCW's Wastewater Treatment Plant and Authorize Letter of Intent and Agreement with Energy Firms.

BACKGROUND

SVCW staff continuously explores opportunities to improve the treatment plant's energy generation and seeks energy savings opportunities to enhance overall energy efficiency. Two very attractive opportunities are energy storage through lithium-ion batteries and renewable energy generation through installation of solar photovoltaic panels. Staff have been in discussions with firms providing various forms of public-private partnerships in these two energy optimization systems.

SVCW is charged by P.G.&E. under industrial electric rate schedule E-20 for electricity; there are two seasonal tariffs under E-20 based on time-of-use (TOU) – summer and winter. Winter season has partial-peak and off-peak periods while summer has peak, partial-peak and off-peak periods. There are demand charges associated with partial-peak and peak-periods as well as demand charges for the maximum use, regardless of the peak periods. Demand charges are costs associated with the highest kilowatt load that occurs within a billing cycle. Usage charges are the costs associated with actual energy use.

Historically, 30 to 50% of SVCW's electrical bills are made up of demand charges. The reason for this high percentage of demand charges is due to the nature of the treatment plant's energy use. For example a single pump turning on could easily bump the overall energy use into a maximum use scenario and, if that pump turns on during partial peak or peak periods, the demand charge is significant. If the energy demands can be offset from partial peak and peak periods and/or if SVCW's maximum demands can be lessened, these demand charges will decrease. Energy storage offers an opportunity to "shave" the peak loads in any given month.

DISCUSSION

Energy storage offers an excellent opportunity for cost savings for a wastewater treatment plant that is subject to varying electric demands throughout the day. Large and efficient lithium-ion batteries allow shifting energy demand by charging batteries at times when demand is lower and cost of electricity is cheaper (for example during nighttime hours) and discharging at times when demand is higher and electricity is more expensive (mornings and afternoons). It also allows preventing high demand charges due to instant spikes in power demand due to sudden startup of large loads such as a large pump startup in the middle of the day. These demand spikes typically make up a significant portion of SVCW's electricity bill.

Over the past year, SVCW staff has been in discussions with three reputable firms whose primary business is energy storage – Advanced Microgrid Solutions (AMS),

Green Charge and SunPower. These firms were provided actual SVCW power usage data to analyze the energy storage system, and they then provided proposals for SVCW's consideration. The purpose of the proposals was twofold: 1) to determine if SVCW should pursue energy storage at all and; 2) to determine which, if any, of the firms would be a good partner for SVCW in pursuit of energy storage. After analyzing and comparing the proposals, SVCW staff has concluded that energy storage offers a significant financial return to SVCW.

Upon this first conclusion, staff further evaluated the proposals and analyzed the financial benefits in more detail. After careful review and many discussions, staff determined that AMS offers the best value to SVCW due to the following reasons:

- AMS offers the largest energy savings guarantee for 1MW/2MW systems
- AMS's annual O&M and system service fee is the least of the firms
- AMS has a similar system installed at a wastewater treatment plant (Inland Empire Utilities Agency); the only firm with a closely matched installation.
- SVCW staff verified the references for installation at Inland Empire Utility District and received very satisfying feedback from that facility.
- AMS is providing California's largest electric utility, Southern California Edison, with up to 200MWh of energy storage

Staff seeks approval to work with AMS to develop the energy storage project. AMS is a complete system provider and will design, build and perform the maintenance services of the system for a fixed annual fee. Currently, California is offering a very attractive incentive also known as Self-Generation Incentive Program (SGIP) for battery storage. Preliminary financial evaluation shows that the energy storage project could have a simple payback period as low as 3 years. In addition to the SGIP incentive, SVCW is also working with the State Water Resource Board and exploring the possibility of partially funding this project through state revolving fund (SRF) that allows principal forgiveness of 50% of the capital or \$4 million, whichever is lower. This is a special program within SRF, specifically intended towards green energy projects and does have available funding at this time.

SVCW staff recommends pursuing this project and exploring in detail to further investigate the battery storage and solar project combination. SVCW is not obligated to commit to these projects at this moment and has no financial commitment to AMS. Rather, AMS seeks a Letter of Intent from SVCW that will provide AMS with assurance that SVCW will negotiate in good faith.

There is also opportunity to investigate feasibility of photovoltaic energy systems. SVCW explored solar power generation in the past and, at the time, it did not make financial sense; however, since that time the industry has matured. Reduced production costs and more efficient photovoltaic panels have changed the financial outlook. Staff has been exploring possibilities with a reputable firm, Opterra, who has expertise in solar power energy system procurement. The preliminary evaluation shows that SVCW

currently has the potential of solar power energy generation to offset the majority of the electricity currently purchased from P.G.&E.

The combination of energy storage and a solar project was also evaluated by Opterra to determine the combined impact of the two systems. Preliminary evaluations show very promising financial outlook, but requires further detailed investigation to fully develop the project and ensure the outlook remains positive.

Opterra has offered a Project Develop Agreement at no cost to SVCW under which it will perform the detailed analysis, preliminary assessment of siting, connectivity and physical layout, and provide an implementable project to execute if it provides attractive financial payback to SVCW.

Staff also notes that if the energy storage and solar projects are combined together for an SGIP grant, they will be placed in a higher priority category for SGIP incentives.

FINANCIAL IMPACT

SVCW currently does not have a CIP assigned to these energy projects. However, there is no payment or fees involved at this point for work to be started on both projects. The only cost is the 5% deposit required by the California Energy Commission for the SGIP application. Staff will present updates and return to the Commission at a future date for any approval of contracts or agreements related to the potential program.

RECOMMENDATION

- i. Move approval AUTHORIZING MANAGER TO ISSUE LETTER OF INTEREST FOR ENERGY STORAGE SYSTEM – AMS
- ii. Move approval AUTHORIZING MANAGER TO ENTER INTO PROJECT DEVELOPMENT AGREEMENT FOR SOLAR PHOTOVOLTAIC ENERGY PRODUCTION – OPTERRA

**FINAL ENVIRONMENTAL IMPACT REPORT
WASTEWATER CONVEYANCE SYSTEM AND TREATMENT PLANT RELIABILITY
IMPROVEMENT PROJECT
CERTIFY EIR, ADOPT FINDINGS OF FACT AND MMRP, AND APPROVE PROJECT**

ISSUE

Certification of the Wastewater Conveyance System and Treatment Plant Reliability Improvement Project Environmental Impact Report, Adoption of Findings of Fact and Mitigation Monitoring and Reporting Program and Approval of Project.

BACKGROUND

In May 2015, the SVCW Commission directed staff to implement analysis and prepare an Environmental Impact Report (EIR) for the *Wastewater Conveyance System and Treatment Plant Reliability Improvement Project*. A project description was developed and analysis of the environmental impacts of the project commenced. The Draft EIR was completed in November 2016 and a Notice of Availability was issued, signaling the start of a 45-day comment period. On December 14, 2016, SVCW held a public meeting at its administrative offices to solicit comments. The 45-day comment period ended on January 13, 2017. After comments were received SVCW completed the Final EIR, which includes responses to comments and provides additional analysis that was initiated by the comments.

SVCW, as Lead Agency, has prepared the Draft EIR in compliance with the California Environmental Quality Act (CEQA) and its Guidelines. An EIR is an informational document that assesses the potential environmental impacts of a proposed project, as well as identifies mitigation measures and alternatives to the proposed project that could reduce or avoid adverse environmental impacts.

The Draft EIR describes the project and discusses the project background, including project objectives. The project objectives identified for the proposed project are:

- Replace the existing wastewater infrastructure and other improvements to the conveyance system to ensure reliable operation of the overall wastewater conveyance system in accordance with San Francisco Bay RWQCB NPDES permit conditions.
- Reduce the likelihood of spills and discharges of untreated sewage to the surrounding environment, which has occurred numerous times with the existing 45 year old concrete sewer force main that operates above its design pressure.
- Implement a Project that minimizes adverse environmental effects, adverse impacts to public health and private property owners, utility interference and disruption during construction, and short-term and long-term costs.
- Improve plant process reliability, and increase operational readiness.
- Meet future regulatory requirements imposed by the RWQCB for nutrients discharged into the San Francisco Bay

The Draft EIR then enters into assessing the potential environmental impacts of a proposed project, and identifies mitigation measures and alternatives to the proposed project. Additionally, since SVCW is applying for State Revolving Fund monies partially funded by the U.S. Environmental Protection Agency via the State Water Resources Control Board, “CEQA-Plus” is required. CEQA-Plus adds assessment of impacts to federal environmental regulations including Endangered Species Act, National Historic Preservation Act, and Clean Air Act. These requirements are also assessed in the Draft EIR.

Results of the environmental impact assessment indicate that the proposed project would not result in any significant and unavoidable impacts, as all significant impacts are capable of being reduced to less than significant levels through incorporation and implementation of mitigation measures which become part of project approval.

CEQA also requires that an EIR identify alternatives to the proposed project. The CEQA Guidelines specify that an EIR identify alternatives which “would feasibly attain the most basic objectives of the project but would avoid or substantially lessen many of the significant environmental effects of the project”. Thirteen project alternatives were evaluated for reduced environmental impacts against meeting the objectives of the project; none of the alternatives were found to be environmentally superior and/or meet the project objectives.

The overall EIR process is thus:

- Notice of Preparation (NOP). SVCW issued the NOP to local, state, and federal agencies on February 19, 2016 and the 30-day comment period concluded on March 23, 2016. A public scoping meeting was also held on March 2, 2016.
- Draft EIR Public Review and Comment Period. Publication of the Draft EIR marks the beginning of a 45-day public review and comment period. The Draft EIR was made available to local, state, and federal agencies and to interested organizations and individuals. Although not required under CEQA, SVCW also held a public meeting to receive comments to the Draft EIR. The Draft EIR was completed on November 29, 2016 and the public comment meeting was held on December 14, 2016. The public comment period ended on January 13, 2017.
- Following conclusion of the 45-day review period, SVCW prepared the Final EIR consisting of revisions to the Draft EIR as necessary, list and copies of comments received and by whom, and responses to comments received. The Final EIR was completed and circulated on March 31, 2017. At this time, the Commission can certify it as the final EIR in accordance with CEQA.
- At any time after the final EIR is certified, the Commission may approve the project. Certification of the final EIR and project approval should be considered at the same Commission meeting, as two separate actions. (CEQA Guideline 15202(b))

- Upon approval of or determination to carry out the project, SVCW will file a Notice of Determination with the County. This filing begins a 30-day statute of limitations on court challenges to the approval.

DISCUSSION

Findings: CEQA requires that SVCW, as the lead agency, make written findings when it approves a project for which an EIR was certified, and identify overriding considerations for significant and unavoidable impacts identified in the EIR. The Findings are attached to this agenda Item. Since there are no significant and unavoidable impacts, no overriding considerations need to be considered.

Mitigations: Analysis included in the EIR indicates that the proposed project would have a number of potentially significant impacts. The EIR includes a number of proposed mitigation measures to reduce or eliminate the potential significant impacts. With mitigation, all of the potential project impacts were reduced to less-than-significant status.

The EIR includes mitigation measures intended to reduce project-specific and cumulative impacts for Air Quality, Biological Resources, Cultural Resources, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, Noise and Vibration, and Utilities and Service Systems. These mitigations are summarized in the Mitigation Monitoring and Reporting Program, attached as part of the Findings.

Comments: A total of 8 individuals and organizations provided written comments on the EIR:

- Sequoia Audubon Society
- California Department of Transportation, District 4
- State Water Resources Control Board
- San Francisco Bay Conservation and Development Commission
- City of Redwood City
- Joseph Wucher
- Roger Stern
- Thor and Karen Enander

These comments are printed and responded to in the Final EIR.

SVCW staff recommends that the Commission certify the Final Environmental Impact Report for the Wastewater Conveyance System and Treatment Plant Reliability Improvement Project, including adoption of the Findings and associated Mitigation Monitoring and Reporting Program (MMRP) as a condition of project approval, and approve the project.

FINANCIAL IMPACTS

The overall CIP project costs for the components of the Wastewater Conveyance System and Treatment Plant Reliability Improvement Project is \$537 million. Certifying the EIR, adopting the Findings and MMRP and approving the project does not

automatically authorize this money to be spent. Expenditures will be authorized as part of individual task orders and construction project authorizations during the lifetime of the project.

RECOMMENDATION

- i. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION CERTIFYING THE FINAL ENVIRONMENTAL IMPACT REPORT PREPARED FOR THE SVCW WASTEWATER CONVEYANCE SYSTEM AND TREATMENT PLANT RELIABILITY IMPROVEMENT PROJECT (SCH# 2016022055) IN ACCORDANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT, AS AMENDED
- ii. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION MAKING CERTAIN FINDINGS CONCERNING MITIGATION MEASURES AND ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM IN ACCORDANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT FOR THE SVCW WASTEWATER CONVEYANCE SYSTEM AND TREATMENT PLANT RELIABILITY IMPROVEMENT PROJECT (SCH# 2016022055) FOR WHICH AN ENVIRONMENTAL IMPACT REPORT HAS BEEN PREPARED, AND APPROVING THE PROJECT

**GRAVITY PIPELINE AND FRONT-OF-PLANT
PROGRESSIVE DESIGN BUILD REQUEST FOR QUALIFICATIONS**

ISSUE

Approve Progressive Design Build Requests for Qualifications for Gravity Pipeline and Front-of-Plant projects.

BACKGROUND

SVCW has been working towards implementing its Wastewater Conveyance System and Treatment Plant Reliability Improvement Project (“Project”). Major milestones will be reached in April, the largest of which is anticipated to be certification of the Environmental Impact Report (EIR), an action item at this April 13, 2017 Commission meeting, along with a request for Project approval. Upon certification of the EIR and adoption of mitigation measures, the Project can be approved and two key components of the project can move forward.

Two components of the Project ready for implementation are the Gravity Pipeline and the Front of Plant. The Gravity Pipeline project is the replacement of the 48-inch and 54-inch force main segments between Bair Island and the Wastewater Treatment Plant. The Front-of-Plant project is the Receiving Lift Station, the Headworks, the Influent Connector Pipeline, and other support facilities; all located at the previous site of the recycled water landscape impoundment.

In January 2016, the Commission approved the Design-Build policy, Policy No. 2016-01, (as amended). The policy establishes a procedure for implementing the Design-Build process for delivery of projects in accordance with the provisions of Public Contract Code Section 22160. The policy is applicable for projects over \$1 million and seeks to provide SVCW with the “Best Value” project delivery. Per the legislative act authorizing use of design-build, “Best Value” means a value determined by evaluation of objective criteria that may include, but not be limited to price, features, functions, life-cycle costs, experience, and past performance.

The procedure involves the following steps, each defined in detail within the policy:

- Manager appoints a D-B Procurement Team
- Procurement Team prepares documents setting forth scope and estimated price of project (“Procurement Documents”)
- Procurement Team prepares Request for Qualifications
- Manager submits Procurement Documents to Commission for approval concurrent with recommendation to issue RFQ (subject of this Commission action item)
- Prequalification process commences, including the requirement for use of a skilled and trained workforce
- Procurement Team prepares a Request for Proposal to be issued to the prequalified D-B firms
- Upon receipt of proposals, Procurement Team evaluates and ranks the firms; Manager submits to the Commission the tentatively selected firm with a recommendation to award the contract.

- The award of the D-B contract is publicly announced by Manager with a statement regarding the basis of the award.

The Procurement Team has worked diligently with engineering consultants (Owner's Advisors), Legal Counsel and insurance and financial industry experts to draft Requests for Qualifications for each project. The RFQs are ready for issuance upon EIR certification and project approval by the Commission.

DISCUSSION

Both the Gravity Pipeline project and the Front-of-Plant project will use the Progressive Design Build (PDB) process. Each will have their own RFQs issued with their unique criteria and scoring for the criteria. D-B firms may propose on one or the other project RFQ, or both. Should the same D-B firm be rated in the top qualified scores of each individual RFQ, the Procurement Team may recommend that firm be invited to the Request for Proposal process for both projects.

The process for obtaining qualifications and proposals from D-B firms is as follows:

Step 1 – Qualifications Step

- SVCW issues the RFQ
- D-B firms submit Statements of Qualifications
- The Procurement Team's Selection Panel reviews the SOQs, checks references, and invites the top firms to interview
- Interviews are held with the top firms
- The Selection Panel combines the scores from SOQ, references, and interviews and shortlists the top firms (normally between 2 and 4 firms depending on the number of submitted SOQs) to receive Requests for Proposals

Step 2 – Proposal Step

- SVCW issues the RFP to the top shortlisted D-B firms
- D-B firms and Procurement Team meet for Confidential Meeting
- D-B firms submit Proposals
- Interviews are held with key personnel from the D-B firms
- The Selection Panel scores the proposals and interviews and makes recommendation to Manager for award of the design-build contract.

It is anticipated that Step 1 and 2 will span from mid-April through September and that the Manager will make a recommendation for awarding the design-build contract to the Commission at the October 2017 meeting.

Once a D-B firm is contracted to perform the work on each respective project, the process that will be followed is:

Stage 1 – Preconstruction Services:

- 10% design to 60% +/- design by D-B Firm
- along the way, project costs are updated, and decisions made by SVCW

- at 60% design, a Guaranteed Maximum Price (GMP) will be negotiated

Stage 2 – Construction and Startup Services

- Stage 2 begins with bringing the 60% design to the level that construction can begin
- Upon significant design completion, construction begins (may be in phases)
- Construction can be “phased”; i.e., one portion of construction can begin while design of other portions is still being completed.
- Upon construction completion, facilities begin the startup phase, this includes operator training.
- Upon completion, the project will be presented to the Commission for acceptance

It is anticipated that the entire schedule for the Gravity Pipeline design and construction will take from Fall 2017 through Summer 2022. The current schedule for the Front of Plant facilities design and construction span from Fall 2017 to Fall 2022.

FINANCIAL IMPACT

The CIP contains two projects: 6008 is the Gravity Pipeline project and the Front of Plant projects are described by CIP project #s 6013, 6014, 9160. The CIP's allocated costs of each are:

CIP 6008 – Tunnel and Gravity Pipeline	\$220 million
CIP 6013 – Receiving Lift Station	\$51 million
CIP 6014 – Influent Connector Pipe	\$ 9 million
CIP 9160 – WWTP Headworks	\$43 million

The action today has minimal financial impact as it does not obligate SVCW to expenditures of funds for the projects. It is anticipated staff will bring a contract to the Commission for approval in October 2017.

RECOMMENDATION

Move adoption of RESOLUTION APPROVING REQUEST FOR QUALIFICATIONS PROCUREMENT DOCUMENTS IN CONNECTION WITH THE WASTEWATER CONVEYANCE SYSTEM AND TREATMENT PLANT RELIABILITY IMPROVEMENT PROJECT AND AUTHORIZE MANAGER TO ISSUE REQUEST FOR QUALIFICATIONS TO INTERESTED DESIGN-BUILD ENTITIES

**WASTEWATER CONVEYANCE SYSTEM AND TREATMENT PLANT PROJECTS:
GRAVITY PIPELINE AND FRONT OF PLANT
TASK ORDER AUTHORIZATIONS FOR PROJECT CONSULTING SUPPORT**

ISSUE

Approval of Water Environmental Technical (WET) Consulting Task Order Scope and Budget for Operations Input, Technical Edge Consulting Task Order Scope and Budget for Electrical-Instrumentation-Controls Consulting, and Hanson-Bridgett Legal Services Task Order Scope and Budget.

BACKGROUND

For approximately four years, SVCW has contracted and worked with Water Environmental Technical (WET) and Technical Edge who have provided consulting services in various aspects of plant and pump stations operations, capital improvements, electrical and instrumentation and automation.

Mr. Chuck Fenton, Principal of WET, has over 30-years of experience in water and wastewater treatment and extensive specific experience in operations, maintenance, training, troubleshooting, plant optimization, laboratory analysis, and new plant startups. He is a certified instructor who has taught numerous water and wastewater courses throughout his years in the industry and holds the highest levels of certification issued from the nationally recognized Association of Boards of Certification (ABC) for both water and wastewater. The ABC is recognized in 27 states, including California.

Technical Edge has extensive experience in the wastewater field encompassing electrical, instrumentation, controls, SCADA, programmable logic controllers (PLC's) and the design and integration of all components to produce a fully automated system. Technical Edge also brings an expert level of knowledge and experience in the SVCW Rockwell Automation hardware and software as well as the old SVCW iFix and new SVCW Wonderware SCADA software.

In June 2016, the Commission authorized a Master Services Agreement with the law firm of Hanson Bridgett for services related to public works contracting and construction legal services. Hanson Bridgett has specialized in public agency law for over 50 years and possesses particular expertise in alternative project delivery. Mr. David Gehrig is the Infrastructure Group leader and has been serving as SVCW's point of contact.

As staff is seeking authorization for progressing the two design-build projects forward, staff is readying the resources needed to facilitate the implementation process. The three firms and individuals named above are key resources required to ensure the success of the projects.

DISCUSSION

In a Design-Build delivery method, there are key components that are required on the part of the Owner. These are:

- Informed and efficient decision making

- Assurance that the design and construction meet the needs of the Owner
- Streamlined incorporation of the Operator-Equipment interface via automation
- Operator and Maintenance staff buy-in to the facilities being designed and constructed
- Contractual obligations in place to protect the Owner should need arise

To ensure the above components are met, staff has reached out to various staff and consultants to create the Owner's (SVCW) design-build project team. Recognizing that regular SVCW staff have little bandwidth to handle both their current jobs and the high demands that these two large infrastructure projects will take, SVCW staff has been developing the D-B project team using key and expert consultant resources. The individuals that are proposed to be used have staff's confidence, trust, and respect and will do an outstanding job for the agency. In addition to the consulting staff, a Senior Mechanic within SVCW has been re-assigned to be the liaison between Engineering staff and the Operations and Maintenance staff.

Staff is seeking authorization for new task orders for each of the firms, WET, Technical Edge, and Hanson Bridgett. The design-build projects are anticipated to be five and a half years in duration with a six-month tail at the end for training and cooperatively operating the new facilities. Given the budgets currently authorized on an annual basis for WET and Technical Edge, and extending those budgets out six years, the project lifetime budget allocations will be \$2.16 million each. Work expected to be performed by WET and Technical Edge will remain high throughout the duration of the project and it is anticipated that their work will be near full-time; work will be paid on a time and expense basis. For Hanson Bridgett, it is more difficult to estimate the amount of effort needed. To date, Mr. Gehrig has been assisting with design-build procurement documents and he will be instrumental in developing the design-build contract. During the actual design and construction work, his efforts will be dependent upon need. A budget was negotiated based on the anticipated work load in the amount of \$460 thousand for his efforts through the duration of the project; his time will be invoiced on a time and expense basis.

FINANCIAL IMPACT

Funds for these task orders are derived from Fund 20 – CIP Projects, specifically the Gravity Pipeline and Front of Plant Projects. The following CIP #s with their identified costs are specific to this work effort:

CIP 6008 – Tunnel and Gravity Pipeline	\$220 million
CIP 6013 – Receiving Lift Station	\$51 million
CIP 6014 – Influent Connector Pipe	\$ 9 million
CIP 9160 – WWTP Headworks	\$43 million

The total not-to-exceed budgets are:

WET for Operational Assistance	\$2.16 million
Technical Edge for Electrical, Instrumentation, and Automation	\$2.16 million
Hanson Bridgett for Legal Services	\$ 460 thousand

The combined costs of services are less than 1.5% of the total project costs.

RECOMMENDATION

- i. Move approval of TASK ORDER SCOPE AND BUDGET FOR OPERATIONAL CONSULTING SERVICES DURING DESIGN-BUILD IN AN AMOUNT OF \$2.16 MILLION AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – WATER ENVIRONMENTAL TECHNICAL CONSULTING
- ii. Move approval of TASK ORDER SCOPE AND BUDGET FOR ELECTRICAL, INSTRUMENTATION, AND AUTOMATION CONSULTING SERVICES DURING DESIGN-BUILD IN AN AMOUNT OF \$2.16 MILLION AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – TECHNICAL EDGE
- iii. Move approval of TASK ORDER SCOPE AND BUDGET FOR LEGAL SERVICES FOR DESIGN-BUILD IN AN AMOUNT OF \$460 THOUSAND AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – HANSON BRIDGETT

**FRONT OF PLANT PROJECTS (CIP #S 6008, 6013, 6014,9160)
TASK ORDER AMENDMENT TO PROVIDE ADDITIONAL SCOPE
GEOTECHNICAL ENGINEERING SERVICES**

ISSUE

Approval of Amendment to Task Order No. 2016-05 for Freyer & Laureta, Inc. continuation of Front of Plant (FoP) geotechnical and civil engineering services (CIP #s 6008, 6013, 6014, 9160).

BACKGROUND

In June 2015, the Commission authorized staff to proceed with preparing Project Descriptions to support CEQA analysis and financing efforts for the proposed Wastewater Conveyance System and Treatment Plant Reliability Improvement Project. The proposed project includes improvements that would be located in the large ornamental pond (located in front of the plant). New facilities are needed to receive wastewater flow from the gravity pipeline, screen the flow, remove grit, equalize flow and convey the wastewater to the plant's primary treatment process. The improvements in the front of the plant include a Receiving Lift Station (RLS), Headworks (HW), Influent Connector Pipe (ICP) from the Headworks to the existing Primary Sedimentation Tanks, and ancillary facilities such as electrical infrastructure, odor control, and stormwater handling.

To construct these improvements, the soil at the front of the plant must be stabilized. The soil in this area is called Young Bay Mud, which has very low supportive strength. Construction equipment would not be able to operate on this soil without the potential to sink into the soil. The soil can be stabilized by spreading lime over the surface and mixing it amongst the top few feet of the soil.

In January of 2016 the Manager authorized Task Order 2016-05 for F&L to prepare construction documents suitable for bidding to stabilize the soil within the large ornamental pond to create a stable working surface to construct conveyance system improvements. SVCW had previously selected F&L as the lead consultant for the design of the Front of Plant (FoP) civil site improvements to support the conveyance system projects listed above. F&L has been preparing bid documents for the soil stabilization work and were selected to complete the design because they are a highly specialized civil design firm for this sort of work.

DISCUSSION

After the initial task order scope of work was authorized, additional scope was requested by SVCW. The additional scope prepares the site for future construction activities, including pavement design of a new roadway and parking area for staff access and lighting design associated with these areas. Upon completion of the roadway and parking area, along with the soil stabilization, the area to receive the FoP facilities will be ready for the design-builder to mobilize.

This task order amendment revises Task Order 2016-05 to include the added work items. Currently, F&L is proceeding within scope and budget to complete the work.

FINANCIAL IMPACTS

The original task order budget was \$73,526; this amendment is for \$46,740 bringing the total value of engineering services to \$120,266. The FoP soil stabilization work will be completed under the following four CIP projects, indicated with their associated CIP estimates:

CIP 6008 – Tunnel and Gravity Pipeline	\$220 million
CIP 6013 – Receiving Lift Station	\$51 million
CIP 6014 – Influent Connector Pipe	\$ 9 million
CIP 9160 – WWTP Headworks	\$43 million

The not-to-exceed budget for the soil stabilization design effort is less than 0.01% of the four CIP project budgets. There will be follow-on work required to implement the above projects and staff will return to the Commission for specific construction authorizations.

Funds for the task order derive from the State Revolving Fund (SRF) Conveyance System planning loan; this loan was received in the amount of \$14 million.

RECOMMENDATION

Move approval of AMENDMENT TO TASK ORDER 2016-05 SCOPE AND BUDGET FOR FRONT OF PLANT SOILS STABILIZATION IN AN AMOUNT NOT TO EXCEED \$46,740 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – FREYER & LAURETA, INC.

ADOPTION OF FISCAL YEAR 2017-18 ANNUAL OPERATING AND CAPITAL EXPENDITURES BUDGET

ISSUE

Approval and adoption of Fiscal Year 2017-18 Annual Operating and Capital Budgets.

BACKGROUND

Prior to May 1 of each calendar year, SVCW is required to adopt an Operating and Capital Expenditures Budget (Budget) for the upcoming Fiscal Year. The Budget outlines the amount of revenue needed to provide for expenditures required for the operation, maintenance, administration and compliance monitoring requirements of the Authority. Furthermore, the Budget identifies other cash flow requirements for non-financed capital projects, debt service, and cash reserve designations.

The long term Capital Improvement Program (CIP) plan, most recently updated in June 2015, identifies the funds needed for both capital replacement projects (depreciation) and system improvement projects. While this budget does not seek approval for the overall CIP, it does recognize the next eight years of capital expenditures and proposes an appropriate funding strategy.

The Commission received and discussed this item at their meeting on March 23, 2017. Feedback was incorporated along with other suggestions detailed below. Commissioners were also asked to forward questions to the SVCW Manager. No questions or comments were received.

DISCUSSION

The following table describes the changes made to the Proposed Budget since the March 23, 2017 Commission meeting:

Description	Proposed 2017-18 Budget MARCH	Revised 2017-18 Budget APRIL	\$ Increase/ (Decrease)	Comments
Gross Operating Expenses	\$ 23,868,381	\$ 23,912,933	\$ 44,552	<i>Incorporated compensation study</i>
Less Miscellaneous Revenue	(621,608)	(621,608)	-	
Net Operating Expenses	\$ 23,246,773	\$ 23,291,325	\$ 44,552	
Revenue-Funded Capital	1,222,576	1,546,000	323,424	<i>Updated cost of valves at pump stations and FEF</i>
Reserve Designations	2,130,895	2,030,298	(100,597)	<i>Recognized investment earnings on Operating Reserve</i>
Total before Debt Service	\$ 26,600,244	\$ 26,867,623	\$ 267,379	
Debt Service Payments	\$ 12,347,586	\$ 12,347,586	\$ -	
Total Member Contributions	\$ 38,947,831	\$ 39,215,209	\$ 267,379	

The Proposed Budget now provides \$23.29 million for Net Operating Expenditures. It also accommodates \$1.55 million for revenue-funded capital and \$2.03 million towards Cash Reserves to incorporate Commission-adopted policy. Finally, SVCW debt service is projected to be \$12.35 million, or \$917 thousand less than FY 2016-17 due to delays associated with the conveyance system capital projects.

Year-over-year Budgeted Member Entity Contributions				
Description	2016-17 Adopted Budget	2017-18 Proposed Budget	\$ Increase/ (Decrease)	% Increase/ (Decrease)
Gross Operating Expenses	\$ 22,975,931	\$ 23,912,933	\$ 937,002	4.08%
Less Miscellaneous Revenue	(426,829)	(621,608)	194,779	45.63%
Net Operating Expenses	\$ 22,549,103	\$ 23,291,325	\$ 742,222	3.29%
Revenue-Funded Capital	1,530,039	1,546,000	15,961	1.04%
Reserve Designations	1,785,302	2,030,298	244,995	13.72%
Total Contributions before Debt Service	\$ 25,864,444	\$ 26,867,623	\$ 1,003,179	3.88%
Debt Service, Participating members	\$ 13,265,210	\$ 12,347,586	\$ (917,624)	(6.92%)
Total Member Contributions	\$ 39,129,654	\$ 39,215,209	\$ 85,555	0.22%

Operating Budget:

Specific to the operating budget only, the following table and chart compares next year's Proposed Operating Budget to FY 2016-17's forecasted expenditures.

Silicon Valley Clean Water Expenditure Summary - By Objective						
Description	2015-16 Actual	Adopted 2016-17 Budget	2016-17 Forecast	Proposed 2017-18 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel	\$13,439,912	\$14,132,794	\$13,940,197	\$14,801,899	\$ 861,702	6.2%
Utilities	1,795,720	1,925,638	1,891,102	1,777,011	(114,091)	(6.0%)
Administrative Expenses	386,230	407,828	372,455	448,151	75,696	20.3%
Equipment & Supplies Expense	2,618,681	2,646,130	2,649,613	2,617,471	(32,142)	(1.2%)
Chemicals	1,220,701	1,135,875	1,095,301	1,377,005	281,704	25.7%
Professional & Contractual Services	2,379,660	2,352,616	2,479,364	2,524,456	45,092	1.8%
Training, Memberships, Travel	234,575	375,050	331,173	366,940	35,767	10.8%
TOTAL	\$22,075,480	\$22,975,931	\$22,759,206	\$23,912,933	\$1,153,728	5.1%

Following is a variance analysis of the Proposed Budget versus the FY 2016-17 Forecast:

- Personnel costs will increase by \$862 thousand, or 6% compared to the 2016-17 Forecast. Approximately \$200 thousand of this increase is due to sustained vacancies occurring in the first half of 2016-17. The remaining increase of \$662 thousand (which is a 4.7% increase from Forecast) includes adjustments for cost-of-

living and step increases and the Manager's recommendations related to implementation of the recently received compensation survey.

- Utilities costs are decreasing by \$114 thousand (6%), despite an anticipated 10% increase in PG&E rates. Electricity demand is reduced as SVCW replaces inefficient motors and machinery, savings estimated at \$238 thousand next year. Additionally, cogeneration engines have performed well and are expected to contribute an additional \$279 thousand in savings next year.
- Administrative Expense will increase by \$76 thousand (20%) as SVCW renews its five-year operating permit and participates in a water quality study of the bay.
- Equipment & Supplies Expense will decrease by \$32 thousand (1.2%) in recognition that recent purchases of calibration devices, as well as the timing of financial software development, avoids the need for such equipment purchases over the next year.
- Chemicals will increase by \$282 thousand, or 25.7%. A new sludge thickening technology is anticipated to increase polymer costs by \$130 thousand, but improves the amount of suspended solids removed from the wastewater which leads to similar and off-setting savings in electricity. Separately, an additional \$73 thousand will be spent on Calcium Nitrate to inhibit corrosion in the thirty-three inch section of the forcemain.
- Professional & Contractual Services will increase by \$45 thousand, or 1.8%. While certain services will decrease (e.g. New rag screens reduce tank cleaning and the financial accounting software project reduces technology consulting), SVCW separately faces increased costs in biosolids disposal.
- Training, Memberships, and Travel will increase by \$35 thousand (10.8%) as SVCW deepens training and prepares for several large, critical construction projects.

Revenue-Funded Capital:

The proposed budget includes capital expenditures outside of the CIP consisting of fifteen (15) projects at a total cost of \$1.55 million. Significant projects include approximately \$567 thousand to address timeworn valves at pump stations and the Flow Equalization Facility. This is a continuation from similar replacements in FY 2016-17, when it was determined that these valves are inoperable and cannot await pump station rehabilitations scheduled for 2022. Approximately \$420 thousand is needed to invest in drying bed equipment to improve the efficiency of biosolids handling, as well as \$123 thousand to replace certain pieces of technology equipment.

Reserves:

This Budget follows SVCW Reserve Policy to contribute \$1 million annually to the Capital Improvement Program (CIP) Reserve. Additionally, it recommends the replenishment of \$1.1 million in emergency funds spent to replace backup power and modify air treatment systems associated with the SVCW technology network.

Finally, the Budget adjusts the Operating Reserve to recognize investment earnings and credit the balance towards Member Agency contributions.

Reserve Designations - 2017-18 Budget			
Description	Estimated June 30, 2017 Balance	Target June 30, 2017 Balance	Proposed 2017-18 Contributions
Operating Reserve	\$ 3,491,891	\$ 3,391,293	(100,597)
CIP Reserve	16,093,292	17,093,292	1,000,000
Emergency Capital Spend:	(1,130,895)	-	1,130,895
TOTAL	\$ 18,454,287	\$ 20,484,585	\$ 2,030,298

Debt Service:

SVCW has raised approximately \$217 million through debt to fund CIP projects. In addition, certain Member Entities contributed \$27 million of cash in lieu of participating in SVCW debt. As of January 2017, remaining CIP project expenditures are approximately \$590 million.

The January 2017 Long Range Financial Plan considered remaining CIP expenditures, their timing, and available sources of funds to recommend a debt structure that uses a hybrid combination of governmental loans and public bonds. Debt service payments will increase in FY 2017-18 as repayment begins on a State Revolving Fund Loan associated with treatment plant upgrades. In addition, by autumn of 2017, SVCW expects to issue wastewater revenue bonds, with a currently estimated net value of \$45 million, to support ongoing CIP projects. Annual debt service payments in FY 2017-18 are estimated at \$12.35 million.

RECOMMENDATION

- i. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION ADOPTING FISCAL YEAR 2017-18 REVENUE PLAN IN THE AMOUNT OF \$23,291,325 IN NET OPERATING REVENUES REQUIRED AND \$1,546,000 FOR REVENUE-FUNDED CAPITAL PROJECTS
- ii. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION ADOPTING FISCAL YEAR 2017-18 CASH RESERVE DESIGNATIONS IN THE AMOUNT OF \$2,030,298
- iii. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION ADOPTING FISCAL YEAR 2017-18 DEBT SERVICE EXPENDITURES IN AN AMOUNT OF \$12,347,586
- iv. Move adoption of RESOLUTION OF THE SILICON VALLEY CLEAN WATER COMMISSION AUTHORIZING SVCW MANAGER TO IMPLEMENT, MANAGE AND APPROVE EXPENDITURES AUTHORIZED WITHIN THE FISCAL YEAR 2017-2018 ANNUAL OPERATING AND CAPITAL EXPENDITURES BUDGET AS ADOPTED BY THE SILICON VALLEY CLEAN WATER COMMISSION

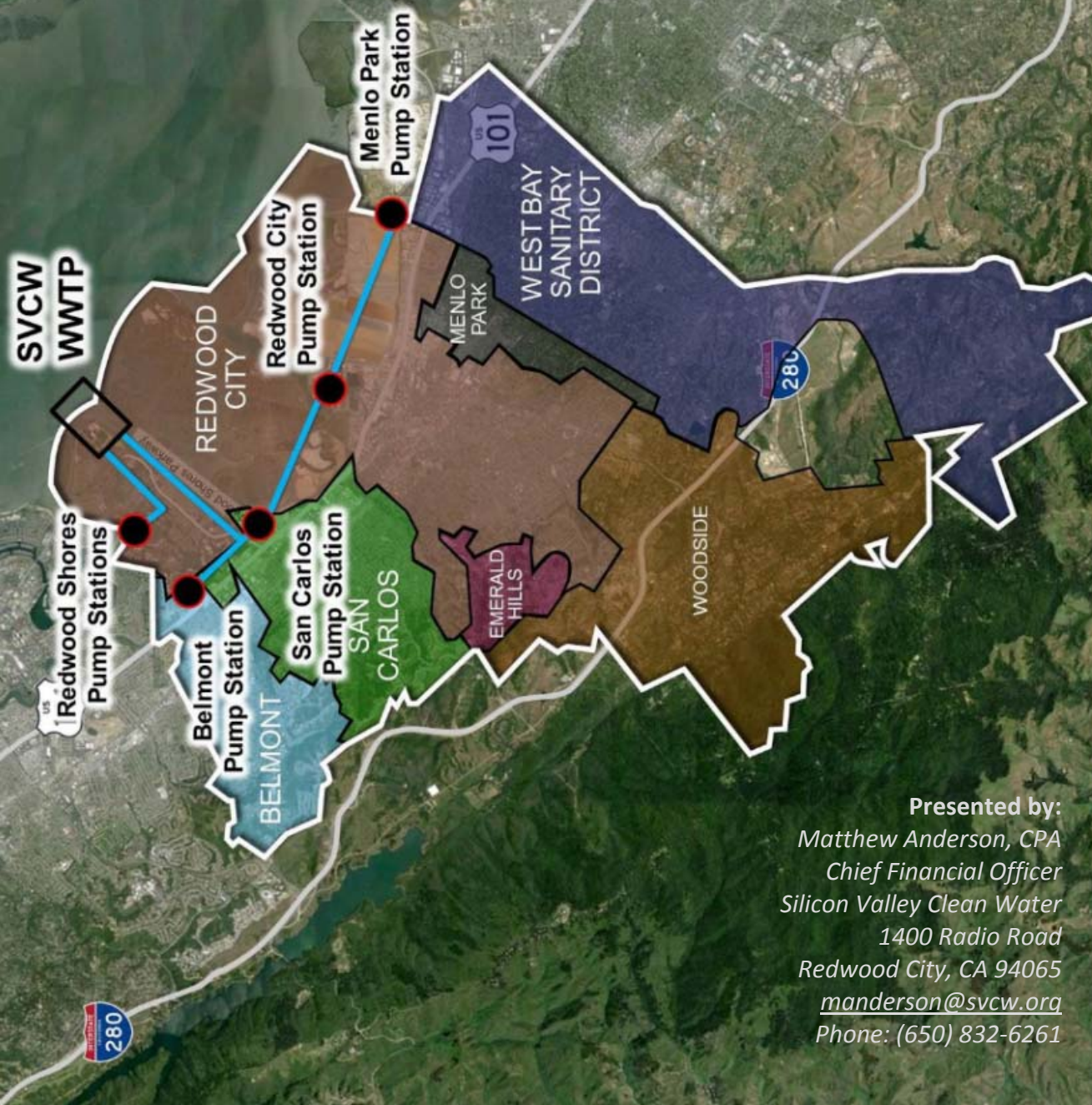
Silicon Valley Clean Water

2017-18 Proposed Budget

(April 23, 2017)



Silicon Valley Clean Water



Presented by:
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Commissioners

<u>Name</u>	<u>Title</u>	<u>Member Agency</u>
John Seybert	Chair	City of Redwood City
Warren Lieberman	Vice Chair	City of Belmont
Robert Grassilli	Secretary	City of San Carlos
George Otte	Member	West Bay Sanitary District

SVCW Staff

<u>Name</u>	<u>Title</u>
Daniel T. Child	Manager
Teresa Herrera	Assistant Manager & SVCW Engineer
Monte Hamamoto	Wastewater Superintendent
Matthew Anderson	Chief Financial Officer
Kim Hackett	Engineering Director
Cindy Hui	Financial Analyst

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SECTION 1 – OVERVIEW

Organization and Business

Silicon Valley Clean Water (SVCW, or “the Agency”) was founded in 1975 as the successor to the Strategic Consolidation Sewerage Plan, from which SVCW took title to property including sanitary sewerage pumping stations, as well as transmission and outfall facilities originally constructed by that plan. SVCW now provides wastewater transmission, treatment, and effluent disposal services for the surrounding communities including the Cities of Belmont, Redwood City, and San Carlos as well as West Bay Sanitary District (Member Entities).

The regional wastewater treatment plant has 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 SVCW Member Entities to five pump stations, the treatment plant, and a 1.25 mile effluent disposal pipeline that discharges treated effluent into the San Francisco Bay. SVCW also provides recycled water to the City of Redwood City.

SVCW is a joint exercise of powers agency reporting to the Member Entities, all of which are located in the northern part of Silicon Valley between the cities of San Francisco and San Jose. The Agency’s wastewater treatment plant is located in the City of Redwood City and serves more than 200,000 people and businesses 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.

Governance & Management

The Agency is governed by a four-member “Commission” consisting of one appointed member from each of the Member Entities’ governing bodies. Current Commission Members are:

<u>Commissioner</u>	<u>Commission Title</u>	<u>Entity Represented</u>
John Seybert	Chair	City of Redwood City
Warren Lieberman	Vice Chair	City of Belmont
Bob Grassilli	Secretary	City of San Carlos
George Otte	Member	West Bay Sanitary District

Voting is proportional to the Member Entities' respective ownership interests in the Agency's wastewater system. There are currently a total of 100 votes which are 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 SVCW 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 (CIP) and the Long Term Financial Plan (Financial Plan). The proposed 2017-18 Budget is consistent with those goals and reflects a progressive approach to controlling costs, minimizing unplanned expenditures, limiting risks, and investing in projects and programs that benefit the community.

SVCW has no taxing power. The Agency receives nearly all of its funding, other than interest earnings and other miscellaneous revenues, from payments made by the Member Entities. Each month, Member Entities make payments for operations, capital repairs, and cash reserves. Debt service payments are made according to schedules set by SRF loans and Bond issuances. After the close of the fiscal year, the annual payments made by each Member are reconciled against the actual expenditures allocated to each Member, and any difference is applied toward fund reserves held by the Agency on behalf of each Member.

Debt Reserves

The Agency has debt reserves as well a Commission-adopted reserve policy that was established to 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-term capital needs. The Operating Reserve is equal to 10% of the approved Operating and Capital Budget plus \$1 million. The Capital Improvement Program Reserve is set at an amount equal to the annual calculated depreciation of SVCW facilities to

meet the long term needs of replacing capital assets upon reaching the end of their useful life. Each year, if the funds held in the above reserves fall below targeted levels, the Commission considers budget adjustments to return reserves to their target levels. The Agency has the ability to amend its reserve policy at any time.

Long Range Financial Plan

SVCW Member Entities' sewer rates provide the underlying repayment security for all SVCW financing. As such, SVCW developed a Long Range Financial Plan (the "Financial Plan") to provide a roadmap for funding the CIP and ongoing operating costs. The Financial Plan is updated annually and presented to the Commission for approval. It also informs Member Entities when considering sewer rates.

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

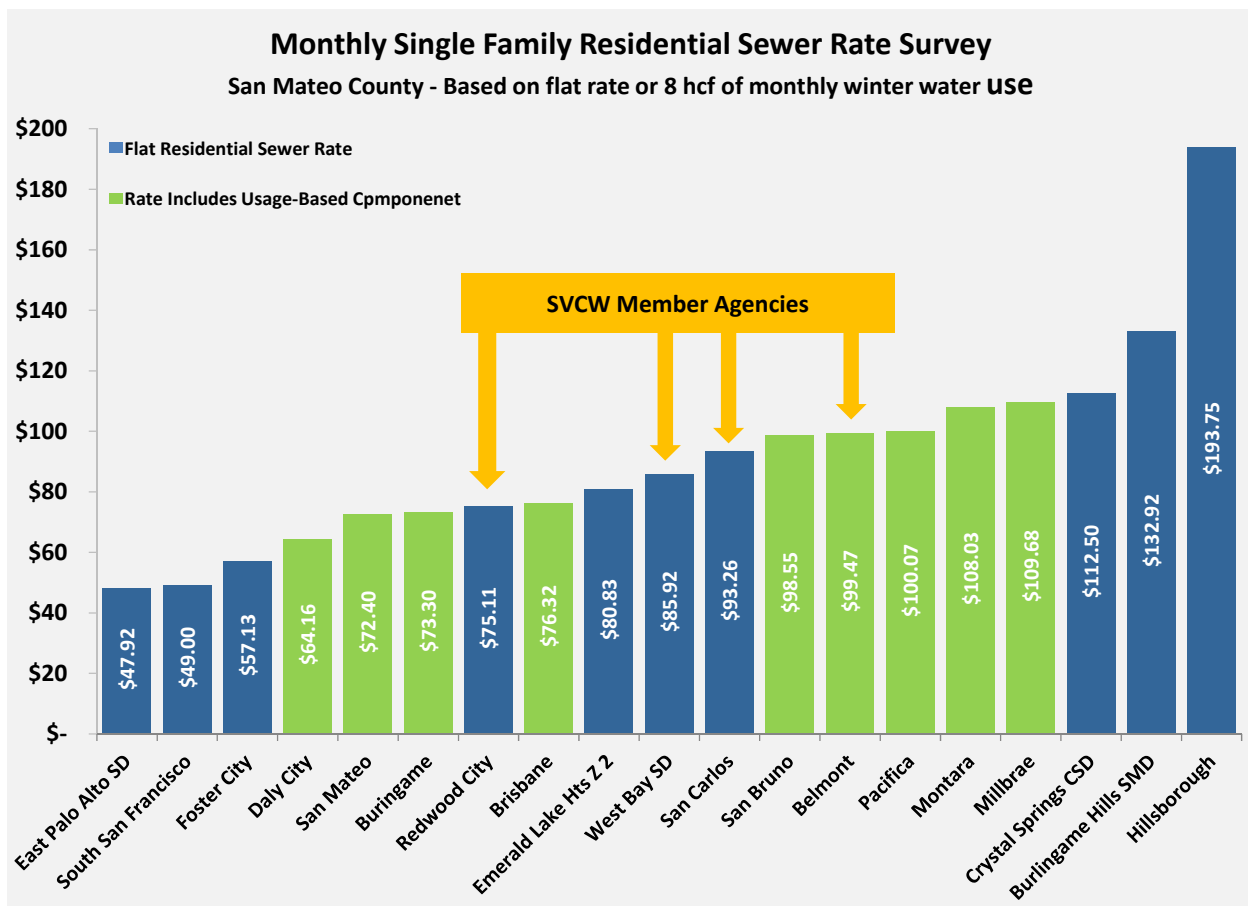
SVCW has a goal to manage its finances and meet critical funding needs, while recognizing the need to maintain reasonable wastewater rates. Going forward this Financial Plan will be enacted through setting of annual budgets, achieving financial performance measures, and incorporating Commission-directed actions. The Financial Plan is derived from planning models that forecast 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 in regards to funding capital projects and raising rates.

Comparative Residential Sewer Charges

Since the introduction of the CIP, Member Agencies have been proactively raising sewer rates to support their allocable share of SVCW expenditures, as well as their own sewer operating and capital programs. While to date, rate increases have been substantial, going forward only modest increases are anticipated. The following table shows residential monthly sewer rates of Member Entities over the past eight 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
Belmont	\$48.06	\$51.34	\$72.13	\$77.33	\$82.77	\$88.13	\$ 88.13	\$ 99.47
City of Redwood City	\$44.70	\$48.72	\$53.10	\$57.88	\$63.09	\$68.77	\$74.95	\$75.11
City of San Carlos	\$43.76	\$46.82	\$50.10	\$53.10	\$67.29	\$80.75	\$88.82	\$93.26
West Bay Sanitary District	\$46.67	\$54.17	\$57.50	\$62.67	\$68.33	\$74.42	\$81.08	\$85.92

Member Agencies' rates are among the middle tier of San Mateo County sewer rates, as shown in the following chart of regional monthly sewer service charges for a typical single family. It should be noted that many of these other agencies are now initiating their own large capital improvement programs, and are anticipated to face significant rate increases going forward.



Accomplishments:

Each year, SVCW management sets goals to ensure its communities' wastewater is conveyed and treated in a safe and dependable manner. Key achievements during the past year include:

Operations:

- Treated approximately 5.3 billion gallons of water in 2016 while meeting regulatory standards.
- Produced 3490 dry tons of biosolids that are beneficially reused for soil amendments and composting.
- Primary Sedimentation Tanks 3 & 4 upgrades,
- Replaced 66" Reinforced Concrete Pipe Outfall Pipe with HDPE pipe
- Cleaned and rehabilitated Digester 3
- Conducted start-up testing of new Gravity Belt Thickeners and placed into service
- Conducted start-up testing Fournier Rotary Fan Press, placed into service
- Replaced Effluent Pump Suction Valve
- Supported the upgrades to Dual Media Filter 6A/6B,
- Primary Scum Pumping upgrades,
- Emergency Generator 4 & 5 installation,
- Diesel Fuel Oil System replacement,
- Replacement of Reinforced Concrete Force Main at Redwood City Pump Station with HDPE pipe,
- Replaced San Carlos Booster Valves V1 & V2,
- Pilot tested Beast Unit for FOG station,
- Participated with Kennedy Jenks Engineering in California Energy Commission Food Waste Study,
- Decommissioned 48" Reinforced Concrete Pipe from Redwood City Pump Station to end of Bair Island,
- Completed Secondary Clarifier 1, 3, 4 flocculation well and sludge scraper modifications



Maintenance:

- Completed 9,167 corrective and preventative maintenance work orders to ensure systems reliably operate in all facilities.
- Utilized internal staff to make programming logic changes that improve the process reliability of recycled water, automate the returned activated sludge control, automate fixed film reactor operations, automated aeration dissolved oxygen control system, and reutilize hot water from the cogeneration system for digester and building heat.
- Completed installation of plant process side stream flowmeters.
- Rehabilitated San Carlos Pump Station sewage pumps suction piping.
- Replaced San Carlos Pump station booster pumps V-1/V-2 valves.
- Installed new Vaughan Chopper pump at Redwood City Pump Station.
- Completed secondary tanks equipment modifications to improve process.
- Replaced all final effluent pumps discharge valves and expansion joints.



Environmental Services:

- Performed 127 industrial sampling events to ensure compliance with Federal and Local Limit Permitting requirements.
- Partnered with lab staff to perform 80 pump station sampling events to gather the data for the SVCW Flow and Loading Report. This sampling is required to determine member agency loading allocation.
- Evaluated and permitted 23 non routine requests to control discharge from non-industrial and groundwater dewatering which may introduce pollutants which may pass through or interfere with treatment processes or contaminate sewage sludge.
- Partnered with the Engineering department to complete a Force Main Sulfides Study. This reduced the need to hire contractors to complete the work.

- Implemented data management procedures that eliminated the need for hard copy lab result transfer from the lab to pretreatment software. All analytical results are transferred electronically. This increases staff efficiency and reduces admin costs.
- Led a Community Outreach Program to reach 2100 students through the sewer science and elementary school programs, 326 people attended plant tours and approximately 300 people were contacted with informational flyers/word of mouth at the SVCW Outreach Booth during two Earth Day Fairs.

Laboratory:

- Processed over 10,000 samples with 25,000 tests to generate 68,000 data points in support of Plant Operations, Permit Regulations, Environmental Services, and customer projects.
- Achieved a 100% Survival in monthly Acute Bioassays by implementing a pH adjustment and carbon dioxide liberation system to reduce the formation of toxic un-ionized ammonia in the final effluent.
- Reduced analysis time for Fecal Coliform testing from 2-3 days to less than 1 day. The faster turn-around time and time savings was achieved by becoming certified for the Colilert-18 Method through the EPA's Alternate Test Procedure program.
- Expanded their list of certified test methods to include orthophosphate, nitrite, and nitrate by Ion Chromatography. These analytes are critical to tracking nutrient removal at the treatment plant. Testing in-house shortens turn-around time and reduces costs when compared to using a contract laboratory.

Safety:

- Maintained a workers' compensation modification rate of 60%, allowing a continued 40% discount of workers' compensation insurance premiums. SVCW monitors the modification rate as a financial measure of its safety program. It is an objective way to distribute the cost of workers' compensation claims. The establishment of this program has improved SVCW safety practices and reduced the number of workplace accidents.
- Conducted over 16 health and safety trainings to SVCW staff during the year. A key component of SVCW safety programs, training ensures employees know how to do their job safely and reduces risk exposure.
- Improved reporting of near-miss incidents by 20%, which encourages self-reporting and strengthens safety measures that prevent accidents. The Safety Division's efforts

increased employee trust and elicited more reporting of near-miss events. Being aware of near miss events allows the Safety Division to engage the workforce by identifying valuable information and developing proactive solutions.

- Held lost-time accidents stable at 3 for the fiscal year; well below industry average. The total recordable incidents rate can show the relative level of injuries and illnesses in different industries or firms. This rate helps determine both problem areas and progress made towards the prevention of work-related injuries and illnesses.

Engineering:

- Participated in the creation of a Memorandum of Understanding with water partners to study the feasibility of developing potable reuse as a new water supply for the region.
- Progressed on 64 projects currently in planning, design, or construction phases.
- Completed six construction projects ranging from the upgrade of the hypochlorite storage system to the multi-year Solids Process Automation Project
- Received a \$2 million grant award to demonstrate the water recovery and energy savings provided by a Staged Anaerobic Fluidized-bed Membrane Bioreactor or SAF-MBR ("SAFE" MBR)
- Addressed and relieved three emergency conditions: Redwood City Pump Station, Outfall pipeline, and Information Services servers. Addressed a near-emergency: Gravity Thickener failures.
- Increased plant electrical reliability by constructing two new standby generators.
- Reached a milestone for the Conveyance System Improvements Program by completing the environmental analysis and producing the Environmental Impact Report. This includes project-level analysis for the conveyance system elements and programmatic-level analysis for future nutrient removal regulatory requirements. With strong public and regulatory outreach, comments to the EIR were minimal.
- Progressed towards using Design-Build as a procurement method for suitable projects at SVCW. Using Design-Build has advantages of bringing high levels of collaboration into

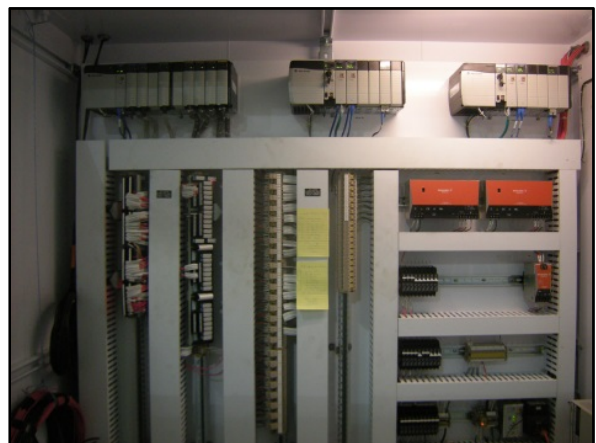


solving complex project challenges. This can translate to more effective use of resources, resulting in a better project for SVCW's ratepayers.

- Supported the Finance Division in pursuit of low-cost funding for CIP projects; SRF and WIFIA. Provided technical and environmental information for the respective application packages.
- Collaborated with Operations Division to bring screening facilities to the Grease Receiving Station, evaluating costs to feed into discharge fee to haulers, resulting in increased amounts of grease being received and higher biogas production.
- Completed large, multi-year and multi-process automation of the treatment plant's solids processing facilities. Automation of these processes enables Operations staff to monitor and optimize the processing of solids. This will reduce maintenance costs, downtime, and enable more efficient operations.

Information Systems:

- Separated SVCW's two primary information systems functions (SCADA now separate from web access, email, voice, etc), to improve security and efficiency.
- Staff was highly involved with Water ISAC (Information Sharing and Analysis Center), which leverages Homeland Security directives to analyze threat data from the federal government level that could affect the Water/Wastewater communities.
- Updated antivirus software to PAN TRAPS, a Palo Alto Networks active antiviral software. TRAPS is an intelligent threat monitoring and detection product that stops an attack before or during an event rather than after the malware or virus has already infected a device.
- Improved Virtual Private Network (VPN) access by installing Global Protect and Dual Factor Authentication. This dual factor authentication requires a secondary notice approval that only the user possesses and monitors security of the authorized device that approves access. If compromised, DUO prevents access until the issue is corrected.
- Introduced RS Logic and Factory Talk,



products that will allow licensing for a mobile component that can track changes to Programmable Logic Controller (PLC) devices. The logic also allows SVCW to create an asset management strategy for these Internet Connection Sharing devices.

- Installed Aerohive wireless, a secure and advanced WiFi system. Aerohive provides monitoring and report of devices and mapping of wireless networking use. It also allows the system administrator to develop use reports by specific facility location.
- Installed Splunk software to provide reporting and insight into SVCW network activity, including the ability to analyze security issues.
- Established Remote Network access for both networks and ensured security of access for remote devices is through SVCW's Virtual Client abilities, (VDI, Virtual Desktop Infrastructure) that points to the main facility servers for authentication access.
- Built a failover system for the Supervisory Control and Data Acquisition (SCADA) system by replacing and configuring network switches. Now, in the event of disastrous system outage, plant operation can continue to collect plant data and control equipment.
- Migrated SVCW's email to the cloud, Office 365 (O365). Email is now available anytime anywhere for users. This saves IT staff time and means servers and network resources may be upgraded without purchasing new hardware. O365's secure outlet is not attached to network equipment, reducing penetration email attacks.
- Began intelligent monitoring systems that filter real-time packet inspections.

Administration & Finance:

- With the upcoming retirement of the Administrative Services Director, worked towards distributing her duties to existing staff. Trained a new Human Resources Director, ensuring enough overlap existed for knowledge transfer. Transferred Commission agenda preparation to the Administrative Assistant. Other duties and responsibilities of the ASD are in the process of being transferred to existing staff.
- Crafted strategies and responses to CalPERS review of SVCW performance pay.
- Prepared a records retention schedule and policy. Worked with staff to implement the policy, beginning with sifting through existing files. This brings SVCW into compliance with state law for public records and disclosure requirements.
- Completed the 2015-16 financial statement audit, which included capitalization of \$84 million in construction projects completed during the year.
- Updated the Long Range Finance Plan that informs Member Entities of SVCW expenditures anticipated over the next decade. The plan recognizes changes in construction schedules, inflationary factors, and financing sources.
- Submitted a Letter of Interest to the Environmental Protection Agency to request a \$194 million Water Infrastructure Finance and Innovation Act (WIFIA) loan.
- Closed a low-cost financing agreement with the State Water Resource Control Board that finances \$14 million in environmental and preliminary planning activities associated with the Conveyance Project.
- Requested and received proposals for a new Accounting Software system. Coordinated agency-wide reviews of two qualified bids that can deliver Enterprise Resource Planning software platforms to meet SVCW's accounting and work order management needs.

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Initiatives:

Each year, Management establishes goals for each Division that together advance SVCW objectives. Following are the key initiatives for 2017-18:

Operations:

- Expand on the invent aeration mixer pilot project by installing energy-saving mixers in remaining aeration basins.
- Investigate the benefits of reducing the number of fixed film reactors in service which may improve treatment efficiencies, reduce odors, and save energy costs.
- Optimize chemical usage and seek price improvements to reduce costs while maintaining compliance.
- Fully implement the Operations Process Control Management Program using the new data management software HACH WIMS.

Maintenance:

- Focus on a current equipment inventory update in the Computerized Maintenance Monitoring System (CMMS), including new assets acquired as CIP projects.
- Complete the installation of new turbidity meters on the “A” side Dual Media Filters (DMF’s) along with new pressure transducer units to enhance the operation of the filters based upon differential pressure. This would decrease filter backwashing frequency and potentially reduce energy.

Environmental Services:

- Reevaluate local limits associated with the SVCW NPDES permit, scheduled for renewal in 2017. A standard NPDES requirement is to reevaluate local limits as needed.
- Depending upon reevaluation of Local Limits, move forward to also update SVCW regulations including pretreatment requirements, possible revenue requirements and other issues to be determined.
- Assist Operations and Engineering with a hydrogen sulfide study to determine the impact of the member agencies on the new tunnel project. This will provide valuable information to the Engineering Department to specify odor/corrosion control systems to protect the new conveyance system.

- Implement the Dental Amalgam Program when the EPA promulgates the new regulation in 2017-18. This will include inspection of dental offices in the service area to insure proper disposal of amalgam products that may contain toxic heavy metals.

Laboratory:

- Research and prepare for regulatory oversight changes in California Certified Laboratories from the CA Environmental Laboratory Accreditation Program (ELAP) to the National Environmental Laboratory Accreditation Program (NELAP). The State of California is preparing to adopt the NELAP Standards which requires a higher level of documentation and accountability to the laboratory methods and procedures.

Information Systems:

- Create a computer and server-level infrastructure to allow the Records Retention policy to be implemented. This will occur as SVCW transitions to Microsoft Sharepoint.
- Continue with cyber-security measures including at remote pump stations.
- Utilize Qualys so SVCW network devices scan for vulnerabilities, rather than depending solely on servers and switches. This service will be expanded to workstations throughout the organization.

Engineering:

- Build a robust Energy Efficiency program to maximize use of generated bio-gas, and including new measures such as battery storage and photo-voltaic systems. The program will seek to maximize private-public partnerships, grants and low cost loans.
- Use the Design-Build procurement method in instances whereby projects would benefit from value-based selection and partnerships.
- Seek opportunities for partnerships with private industry and universities to progress wastewater treatment technologies that would provide benefit to SVCW.
- Cooperate with BACWA to advance the science of San Francisco Bay as relates to nutrients to inform the need for wastewater facilities to reduce nutrient loading.
- Seek opportunities for recycled water partnerships, including indirect and direct potable reuse with water purveyors and other wastewater agencies.

Laboratory Services:

- Further develop capabilities of the Laboratory Information Management System (LIMS) to provide Cost-of-Analysis Quotes and Project Cost-Summaries. Management in Operations, Engineering, and Environmental Services can use this information to optimize their Laboratory analysis needs and reduce costs.

Administrative and Finance:

- Collaborate with other Divisions to select an accounting / work order management software platform and recommend to the Commission for approval. Implementation will take approximately one year before SVCW can fully migrate from the Redwood City accounting system.
- Conduct a recruiting and transition process for two key retirements scheduled in the fiscal year to ensure uninterrupted workflow.
- Resolve the findings of the California Public Employee Retirement System (CalPERS) regarding the exclusion of supervisory incentive pay from retirement benefits.
- Negotiate new Memorandum of Understanding (MOU) terms with representatives of the International Union of Operating Engineers AFL-CIO (Stationary Engineers, Local 39) prior to its June 30, 2018 expiration.
- Define, configure, and implement effective audit techniques to monitor and report on CIP construction expenditures.

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SECTION 2 – OPERATING BUDGET SUMMARY

The 2017-18 Operating and Revenue-Funded Budget anticipates approximately \$23.3 million in Net Operating Expenses and \$1.55 million for Revenue-Funded Capital projects next year. Reserve Designations are aligned with Agency policy and include \$2.03 million in Cash Reserve Contributions. Debt Service expenditures are budgeted to be \$0.9 million less than 2016-17.

Year-over-year Budgeted Member Entity Contributions				
Description	2016-17 Adopted Budget	2017-18 Proposed Budget	\$ Increase/ (Decrease)	% Increase/ (Decrease)
Gross Operating Expenses	\$ 22,975,931	\$ 23,912,933	\$ 937,002	4.08%
Less Miscellaneous Revenue	(426,829)	(621,608)	194,779	45.63%
Net Operating Expenses	\$ 22,549,103	\$ 23,291,325	\$ 742,222	3.29%
Revenue-Funded Capital	1,530,039	1,546,000	15,961	1.04%
Reserve Designations	1,785,302	2,030,298	244,995	13.72%
Total Contributions before Debt Service	\$ 25,864,444	\$ 26,867,623	\$ 1,003,179	3.88%
Debt Service, Participating members	\$ 13,265,210	\$ 12,347,586	\$ (917,624)	(6.92%)
Total Member Contributions	\$ 39,129,654	\$ 39,215,209	\$ 85,555	0.22%

A summary of year-over-year changes in budgeted amounts is below:

- Gross Operating Expenditures will increase by \$937 thousand (3.8%), mostly due to ordinary inflationary pressures on wages and other personnel costs. Additional increases include the purchase of more chemicals to improve corrosion protection and solids removal, as well as to recognize the higher cost of biosolids disposal.
- Miscellaneous Revenue will be \$194.8 thousand higher next year, when SVCW receives its first large payment from PG&E for a cogeneration-related grant.
- Revenue-Funded Capital spending will be \$1.55 million, which is \$16 thousand more than the 2016-17 Budget. This continues the program to replace pump station valves.
- Reserve Designations will increase by \$245 thousand next year. The 2017-18 Budget follows Reserve Policy by crediting operating reserve earnings and contributing \$1 million annually to the CIP Reserve. It also replenishes reserves for \$1.13 million drawn during this fiscal year to fund an emergency capital project.
- Debt Service Payments are budgeted to be \$917 thousand less than the current year due to delays in project construction.

Expenditure Allocations:

Operating Revenues are allocated according to the Joint Powers Agreement (JPA) between Member Entities. The allocation methodology uses a combination of three flow and loading factors: Flow, Biochemical Oxygen Demand (BOD), and Suspended Solids (SS). These factors are based on three-year averages and updated annually. SVCW applies the JPA-defined formula in order to allocate budgeted operating costs to Member Entities.

The updated three-year flow and loading factors below illustrate how the City of Belmont and the City of San Carlos experienced decreases in proportionate flow and loadings. Both Redwood City and West Bay Sanitary District flow and loadings increased relative to the others.

Three-year Average Flow and Loading Averages - by Member				
Agency	Factor	2016-17 Adopted Budget	2017-18 Proposed Budget	Point Increase/ (Decrease)
Belmont	Flow	13.48%	13.18%	(0.30)
	Biochem. Oxygen Demand	12.81%	12.42%	(0.39)
	Suspended Solids	13.71%	12.57%	(1.14)
Redwood City	Flow	45.64%	46.53%	0.89
	Biochem. Oxygen Demand	44.79%	46.31%	1.52
	Suspended Solids	42.73%	46.22%	3.49
San Carlos	Flow	14.31%	13.55%	(0.76)
	Biochem. Oxygen Demand	14.49%	12.36%	(2.13)
	Suspended Solids	14.99%	12.13%	(2.86)
WBSD	Flow	26.57%	26.74%	0.17
	Biochem. Oxygen Demand	27.91%	28.91%	1.00
	Suspended Solids	28.57%	29.08%	0.51

The above year-over-year changes reflect relative flow and loading behaviors between Member Entities. These metrics are presented to the SVCW Technical Committee for validation.

Member Agency Operating Contributions Calculation:

Flow and Loading factors are incorporated in the below table to allocate budgeted operating expenditures:

2017-18 Budget Revenue Allocation to Member Agencies - Proposed									
Description				Belmont	Redwood City	San Carlos	West Bay San District	TOTAL	
Allocation Factors									
Flow				13.18%	46.53%	13.55%	26.74%	100%	
Biochemical Oxygen Demand (BOD)				12.42%	46.31%	12.36%	28.91%	100%	
Suspended Solids (SS)				12.57%	46.22%	12.13%	29.08%	100%	
Weightings									
Operating Expenditures	Flow	BOD	SS						
Operations	26.5%	33.5%	40.0%	\$ 1,113,646	\$ 4,068,775	\$ 1,105,035	\$ 2,494,269	\$ 8,781,725	
Maintenance	26.5%	33.5%	40.0%	772,429	2,822,120	766,457	1,730,036	6,091,043	
Laboratory	26.5%	33.5%	40.0%	218,344	797,732	216,655	489,031	1,721,762	
Environmental Services	26.5%	33.5%	40.0%	138,975	507,754	137,900	311,267	1,095,896	
Engineering	26.5%	33.5%	40.0%	70,303	256,857	69,760	157,460	554,380	
Safety	100.0%	0.0%	0.0%	50,277	177,495	51,688	102,003	381,463	
Information Services	26.5%	33.5%	40.0%	215,216	786,306	213,552	482,027	1,697,101	
Administrative Services	100.0%	0.0%	0.0%	473,104	1,670,223	486,386	959,849	3,589,562	
Subtotal				\$ 3,052,294	\$ 11,087,263	\$ 3,047,434	\$ 6,725,942	\$ 23,912,933	
Subtract Miscellaneous Income	26.5%	33.5%	40.0%	\$ 78,829	\$ 288,005	\$ 78,219	\$ 176,555	\$ 621,608	
2017-18 Net Operating Revenue Required				\$ 2,973,466	\$ 10,799,257	\$ 2,969,215	\$ 6,549,387	\$ 23,291,325	
2016-17 Net Operating Revenue Required				3,014,719	10,019,055	3,289,247	6,226,082	22,549,103	
\$ Increase / (Decrease)				(41,253)	780,202	(320,032)	323,305	742,222	
% Increase / (Decrease)				(1.4%)	7.8%	(9.7%)	5.2%	3.3%	

Miscellaneous Revenue:

Miscellaneous Revenue is derived from grease and septic receipts, property leases, and services performed by the Laboratory and Environmental Services Divisions. In 2017-18 SVCW will also receive \$260 thousand in Pacific Gas & Electric grant revenue associated with electricity production from the cogeneration engines.

2017-18 Budget Miscellaneous Revenue							
Description	2015-16		2016-17		2017-18		% Incr/(Decr) v. Forecast
	Actual	Adopted Budget	Forecast	Proposed Budget	\$ Incr/(Decr) v. Forecast		
Grease & Septic	\$ 171,757	\$ 97,500	\$ 154,113	\$ 164,621	\$ 10,508		6.8%
Cell Tower Lease	26,154	25,091	24,600	25,276	676		2.7%
Property Lease Revenue	15,258	43,000	15,248	15,163	(85)		(0.6%)
Equipment Sales	3,838	10,000	-	30,000	30,000		-
Source Control	42,065	56,000	76,646	56,486	(20,160)		(26.3%)
Lab Revenue	24,507	25,000	24,228	24,430	202		0.8%
Interest Revenue	18,174	15,000	22,959	20,567	(2,392)		(10.4%)
Cogen Grant Revenue	-	140,238	-	260,000	260,000		-
Other	30,684	15,000	27,418	25,065	(2,354)		(8.6%)
TOTAL	\$ 332,437	\$ 426,829	\$ 345,213	\$ 621,608	\$ 276,395		80.1%

Capital and Reserve Contributions:

As described in Section 4 of this budget, Revenue-financed Capital projects are estimated at \$1.22 million in 2017-18. Those costs are allocated to Members according to JPA-defined percentages, which are based on each Member Agency's dry weather capacity owned and its allocated share of future dry weather capacity.

2017-18 Capital and Reserve Allocation Calculations					
Description	City of Belmont	Redwood City	City of San Carlos	West Bay San District	TOTAL
Capital and Reserve Allocation Factor	9.45%	48.57%	15.14%	26.84%	100.00%
CAPITAL IMPROVEMENT					
Plant (cash-funded capital)	\$ 52,542	\$ 270,049	\$ 84,178	\$ 149,230	\$ 556,000
Pump Stations	53,582	275,392	85,844	152,183	567,000
Force Main	28,350	145,710	45,420	80,520	300,000
Equipment	11,624	59,741	18,622	33,013	123,000
Subtotal	\$ 146,097	\$ 750,892	\$ 234,064	\$ 414,946	\$ 1,546,000
RESERVE CONTRIBUTIONS					
Operating Reserve	\$ (9,506)	\$ (48,860)	\$ (15,230)	\$ (27,000)	\$ (100,597)
CIP Reserve	94,500	485,700	151,400	268,400	1,000,000
Replenish Emergency Capital Spend	106,870	549,276	171,218	303,532	1,130,895
Subtotal	\$ 191,863	\$ 986,116	\$ 307,387	\$ 544,932	\$ 2,030,298
Member Contributions	\$ 337,960	\$ 1,737,008	\$ 541,451	\$ 959,878	\$ 3,576,298

Section 5 of this Budget broadly reviews the CIP and the associated debt service payments, which vary as certain Members opt to self-finance a portion of the CIP rather than participate in SVCW debt. Cash reserves, discussed in Section 6, reflect SVCW policy.

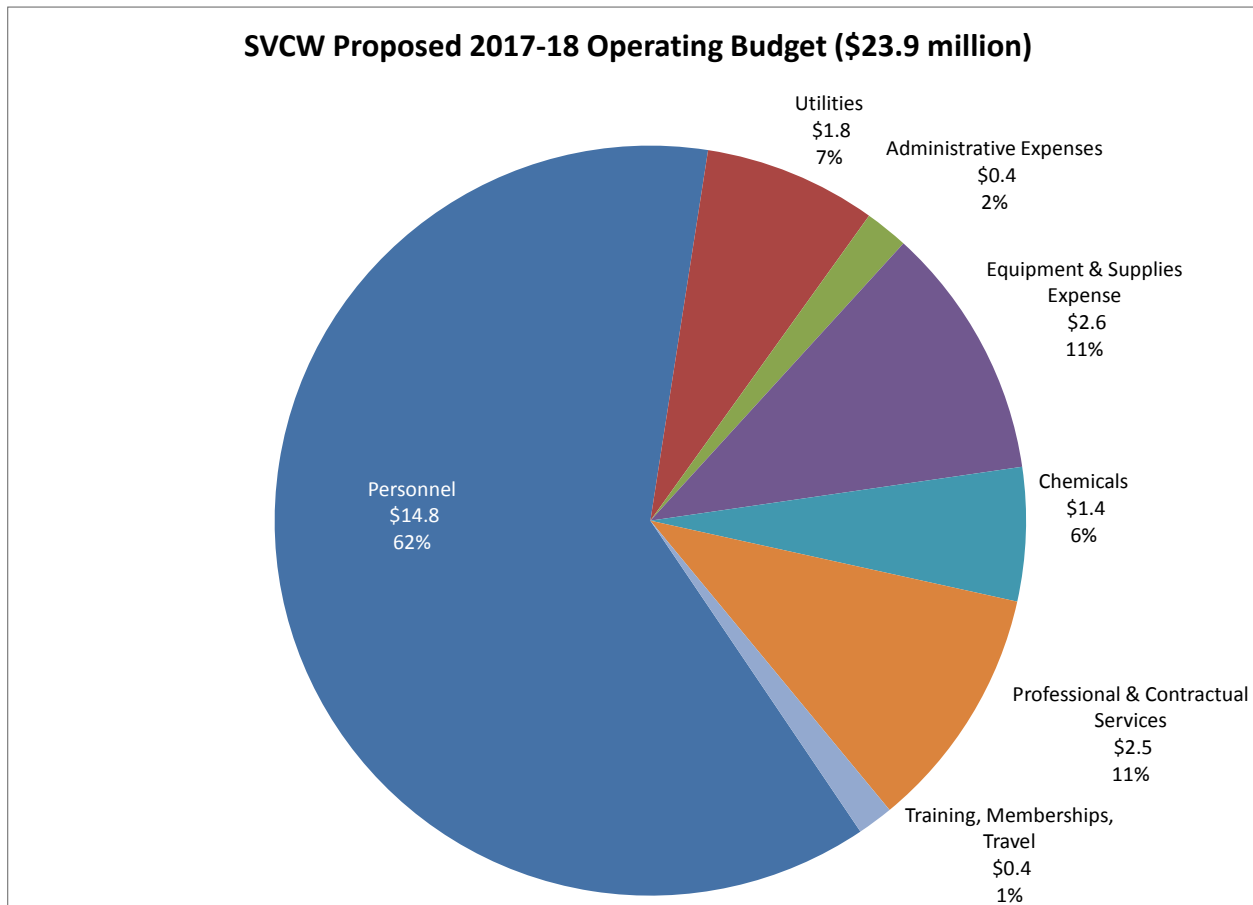
Total Member Entity Contributions:

Total 2017-18 contributions are \$38.92 million, illustrated in the allocation table below:

2017-18 Adopted Budget - Total Contributions by Member Agency					
Description	City of Belmont	Redwood City	City of San Carlos	West Bay San District	TOTAL
Net Operating Expenditures	\$ 2,973,466	\$ 10,799,257	\$ 2,969,215	\$ 6,549,387	\$23,291,325
Revenue-Funded Capital Expenditure	146,097	750,892	234,064	414,946	1,546,000
Reserve Contributions	191,863	986,116	307,387	544,932	2,030,298
Debt Service Payments	170,051	6,429,053	2,084,132	3,664,350	12,347,586
Subtotal - Contributions to SVCW	\$ 3,481,477	\$ 18,965,318	\$ 5,594,798	\$ 11,173,616	\$39,215,209

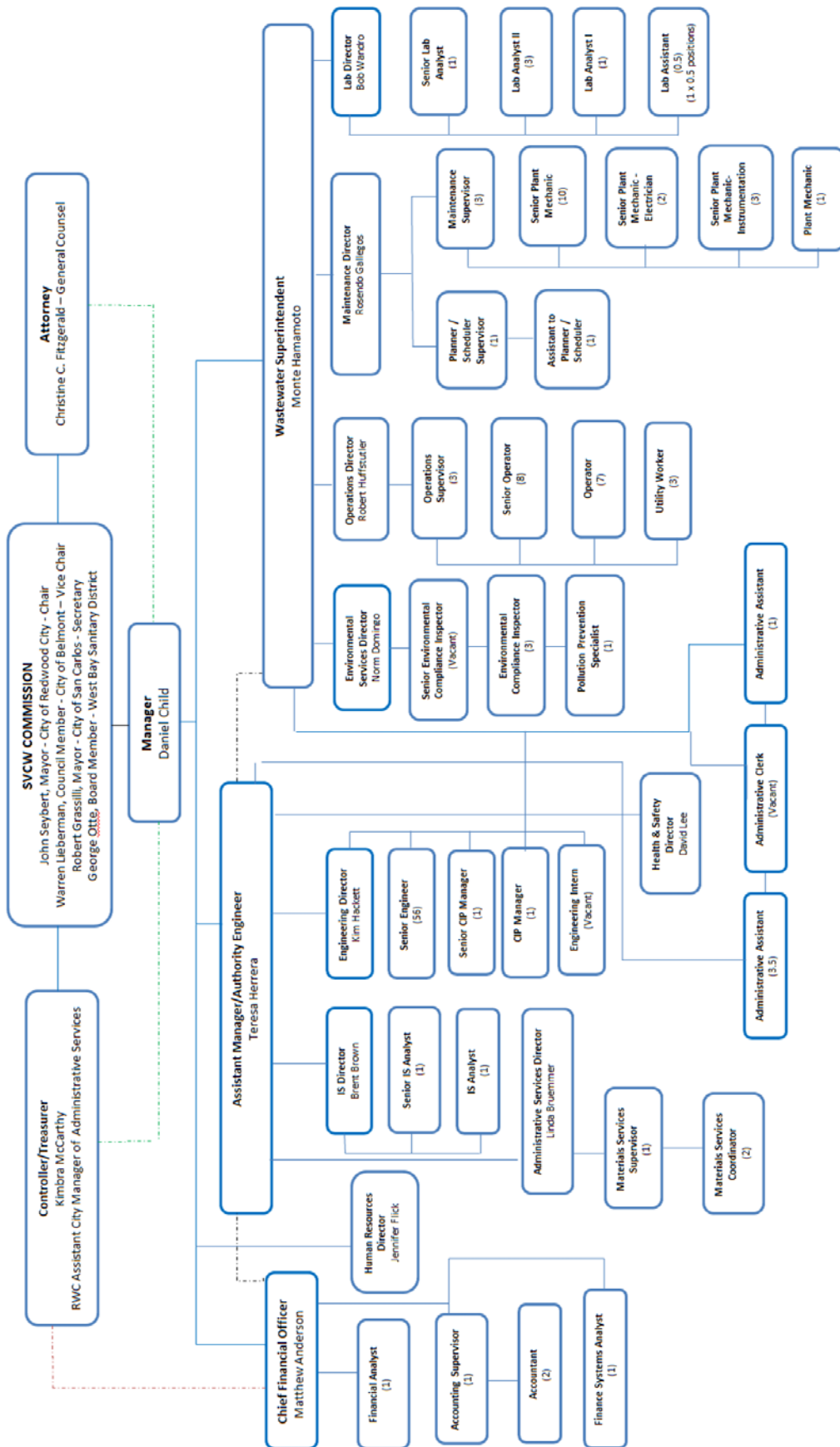
SECTION 3 – GROSS OPERATING EXPENDITURES

The FY 2017-18 Gross Operating Budget will be \$23.9 million. The below table illustrates the significant expenditure categories, showing 62% of expenditures are for personnel-related costs associated with approximately 76 full-time equivalent employees in the Operating Budget.



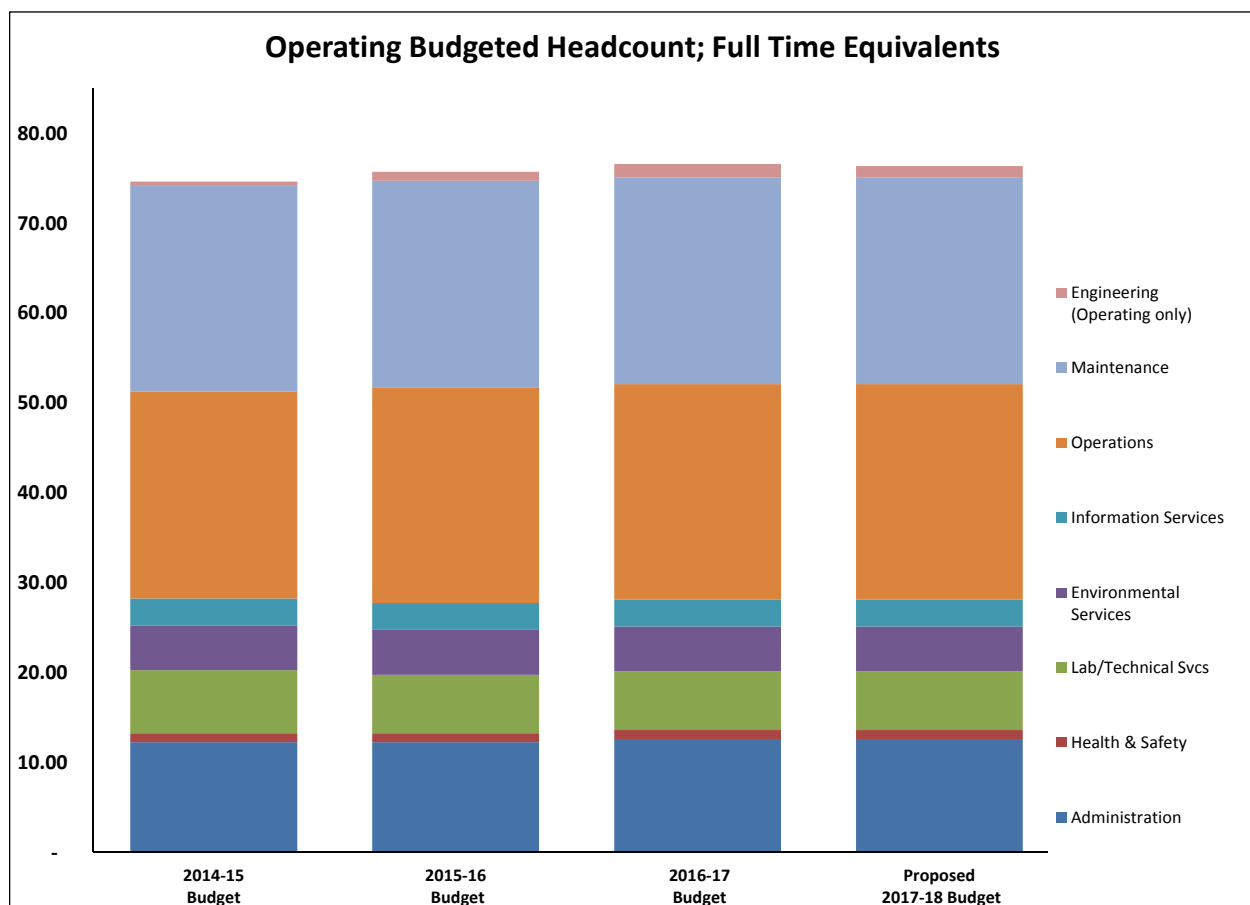
Personnel:

Operating Budget staffing levels have remained approximately 76 full time equivalents across eight divisions since 2010, when SVCW increased staffing to address critical maintenance matters. Those positions, as well employees dedicated to the Capital Improvement Program, are illustrated in the following proposed organization chart.



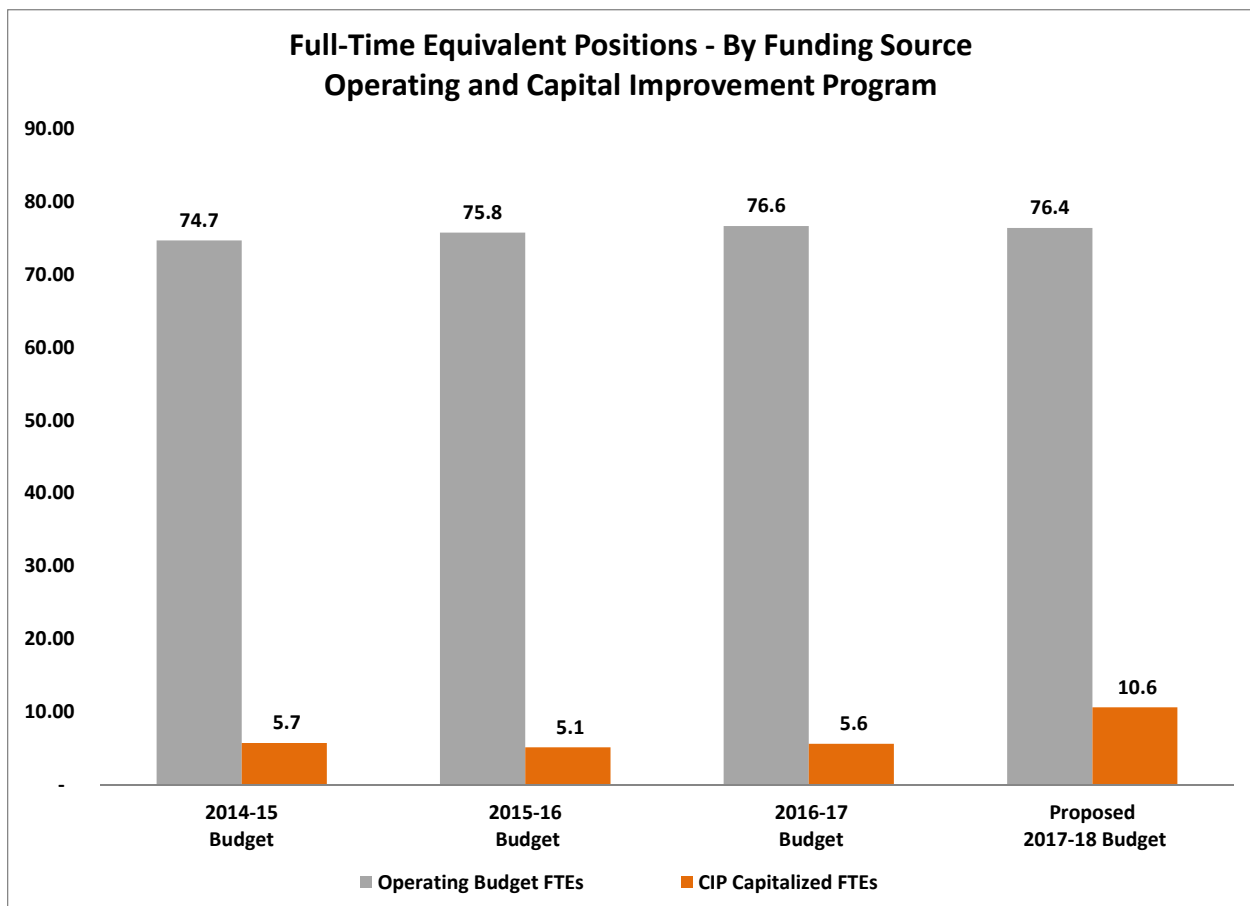
As noted in the table below, the number of positions in the Operating Budget will remain relatively unchanged. The Operations and Maintenance Divisions have a combined 47 full-time equivalent positions, or 62% of the total number of Operating Budget employees. As the Engineering Division expands, an additional 0.25 Full Time Equivalent (FTE) will be spent on operating matters. Additionally, the Finance Department replaced a part-time employee resignation with a full-time staff person.

Full-time Equivalent Headcount - Operating Budget					
Department	2014-15 Budget	2015-16 Budget	2016-17 Budget	Proposed 2017-18 Budget	Increase/ (Decrease)
Operations	23.00	24.00	24.00	24.00	-
Maintenance	23.00	23.00	23.00	23.00	-
Lab/Technical Svcs	7.00	6.50	6.50	6.50	-
Environmental Services	5.00	5.00	5.00	5.00	-
Engineering (Operating only)	0.40	1.00	1.00	1.25	0.25
Health & Safety	1.00	1.00	1.00	1.00	-
Information Services	3.00	3.00	3.00	3.00	-
Administration	12.25	12.25	12.25	12.63	0.38
TOTAL Full Time Equivalents	74.65	75.75	75.75	76.38	0.63



In addition to the Operating Budget headcount figures, certain Engineering Division positions are dedicated to capital improvement projects. It should be noted that the Operating Budget excludes those costs. As SVCW enters a critical phase of its Capital Improvement Program, projects are now much larger and complex which requires additional departmental administration.

The chart below defines the number of positions that have been traditionally charged to capital projects versus operating costs, and further illustrates how the 2017-18 Budget adds five CIP-dedicated staff to manage increasingly large and complex projects (two Engineers, one CIP Manager, one Administrative Assistant for Engineering, and one Accounting Systems Analyst).



Operating Costs Summary by Objective:

Gross Operating Expenses as compared to the 2016-17 Forecast increases by \$1.1 million, or 4.9%.

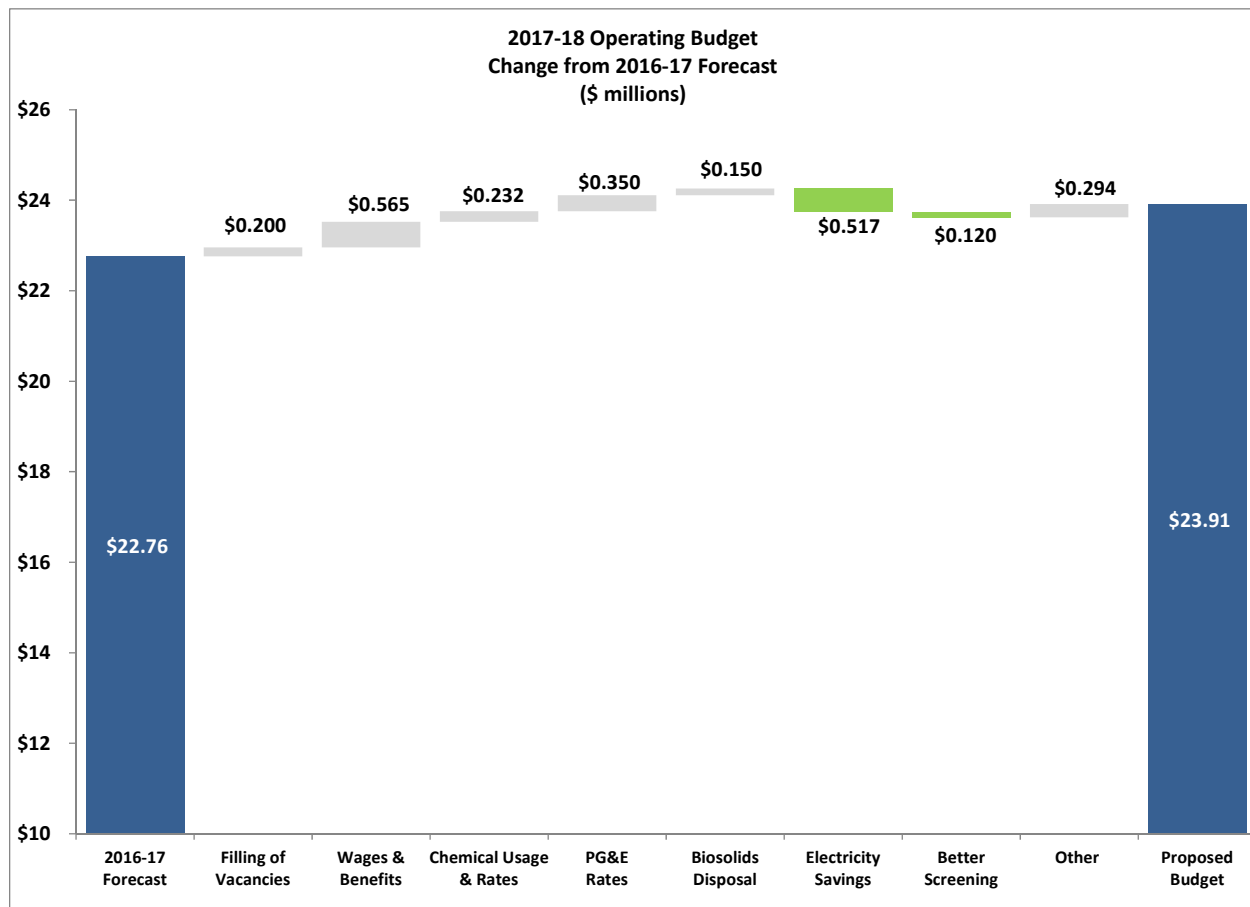
Silicon Valley Clean Water Expenditure Summary - By Objective						
Description	2015-16 Actual	Adopted 2016-17 Budget	2016-17 Forecast	Proposed 2017-18 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel	\$13,439,912	\$14,132,794	\$13,940,197	\$14,801,899	\$ 861,702	6.2%
Utilities	1,795,720	1,925,638	1,891,102	1,777,011	(114,091)	(6.0%)
Administrative Expenses	386,230	407,828	372,455	448,151	75,696	20.3%
Equipment & Supplies Expense	2,618,681	2,646,130	2,649,613	2,617,471	(32,142)	(1.2%)
Chemicals	1,220,701	1,135,875	1,095,301	1,377,005	281,704	25.7%
Professional & Contractual Services	2,379,660	2,352,616	2,479,364	2,524,456	45,092	1.8%
Training, Memberships, Travel	234,575	375,050	331,173	366,940	35,767	10.8%
TOTAL	\$22,075,480	\$22,975,931	\$22,759,206	\$23,912,933	\$1,153,728	5.1%

Comparing the 2017-18 Budget to the 2016-17 Forecast, the following variances can be seen:

- Personnel costs will increase by \$862 thousand, or 6.2% compared to the 2016-17 Forecast. Approximately \$200 thousand of this increase is due to sustained vacancies occurring in the first half of 2016-17. The remaining increase of \$661 thousand (which is a 4.7% increase from Forecast) is largely due to cost-of-living and step adjustments, including approximately \$100 thousand to incorporate recommendations of a recent compensation study.
- Utilities costs are decreasing by \$114 thousand (6%), despite an anticipated 10% increase in PG&E rates. Electricity demand is reduced as SVCW replaces inefficient motors and machinery, savings estimated at \$238 thousand next year. Additionally, cogeneration engines have performed well and are expected to contribute an additional \$279 thousand in savings next year.
- Administrative Expense will increase by \$76 thousand (20%) as SVCW renews its five-year operating permit and participates in studies of San Francisco Bay water quality.
- Equipment & Supplies Expense will decrease by \$32 thousand (1.2%) in recognition that recent purchases of calibration equipment, as well as the timing of financial software development, will reduce certain equipment purchases over the next fiscal year.



- Chemicals will increase by \$282 thousand, or 25.7%. A new sludge thickening technology may increase polymer costs by \$130 thousand but improves the amount of suspended solids removed from wastewater which leads to similar savings in electricity. Separately, an additional \$73 thousand will be spent on Calcium Nitrate to inhibit corrosion in the forcemain.
- Professional & Contractual Services will increase by \$45 thousand, or 1.8%. While certain services will decrease (e.g., New rag screens reduces tank cleaning, Financial accounting software reduces technology consulting), SVCW separately faces increased costs of biosolids disposal.
- Training, Memberships, and Travel will increase by \$35 thousand (10.8%) as SVCW deepens training and prepares for several large, critical construction projects.



Silicon Valley Clean Water Operating Expenditures						
Description	Adopted		2016-17 Forecast	Proposed 2017-18 Budget	\$	%
	2015-16 Actual	2016-17 Budget			Incr/(Decr) v. Forecast	Incr/(Decr) v. Forecast
Personnel:						
Salaries	\$ 9,716,608	\$ 10,143,619	\$ 9,971,232	\$ 10,655,330	\$ 684,098	6.9%
Overtime	262,966	224,161	220,328	232,921	12,594	5.7%
Other Employee Benefits	4,837	4,800	4,731	2,409	(2,322)	(49.1%)
Retirement Benefit Contributions	1,116,172	1,144,589	1,141,309	1,236,766	95,457	8.4%
Health Insurance	1,301,968	1,554,717	1,538,736	1,555,288	16,552	1.1%
Payroll Tax	1,275	1,860	1,737	711	(1,026)	(59.1%)
Workers' Compensation	171,639	190,023	195,787	239,774	43,986	22.5%
Health Insurance - Retiree	722,252	719,180	718,443	718,854	412	0.1%
Medicare	142,195	149,846	147,895	159,846	11,951	8.1%
Subtotal: Personnel Costs	13,439,912	14,132,794	13,940,197	14,801,899	861,702	6.2%
Utilities	1,795,720	1,925,638	1,891,102	1,777,011	(114,091)	(6.0%)
Administrative Expenses	386,230	407,828	372,455	448,151	75,696	20.3%
Equipment & Supplies Expense:						
Office Supplies	11,911	13,500	13,726	13,930	204	1.5%
Rentals & Leases	198,499	88,932	94,866	73,224	(21,642)	(22.8%)
Supplies & Expenses	539,673	578,723	594,454	590,080	(4,374)	(0.7%)
Equipment Maint - Materials	752,236	767,394	733,056	735,588	2,532	0.3%
Equipment Maint - Services	877,866	1,001,583	1,045,115	1,067,812	22,697	2.2%
Non-Capital Equipment	238,496	195,998	168,396	136,837	(31,559)	(18.7%)
Subtotal: Equipment & Supplies	2,618,681	2,646,130	2,649,613	2,617,471	(32,142)	(1.2%)
Chemicals	1,220,701	1,135,875	1,095,301	1,377,005	281,704	25.7%
Professional Services	741,751	907,539	931,540	859,117	(72,423)	(7.8%)
Contractual Services	1,637,908	1,445,077	1,547,824	1,665,339	117,515	7.6%
Memberships & Meetings	56,221	74,828	68,950	75,707	6,757	9.8%
Conferences & Travel	63,142	109,159	83,190	118,495	35,305	42.4%
Training	115,212	191,063	179,034	172,738	(6,296)	(3.5%)
TOTAL EXPENDITURES	\$ 22,075,480	\$ 22,975,931	\$ 22,759,206	\$ 23,912,933	\$ 1,153,728	5.1%

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Total Operating Expenditures by Division

Compared to the 2016-17 Forecast, Divisional changes in budget range from a decrease of 1.5% to an increase of 17.9%. Analysis of each Division is described on the following several pages.

Silicon Valley Clean Water Expenditure Summary - By Division						
Description	2015-16 Actual	Adopted 2016-17 Budget	2016-17 Forecast	Proposed 2017-18 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Operations	\$ 8,302,558	\$ 8,300,593	\$ 8,298,455	\$ 8,781,725	\$ 483,270	5.8%
Maintenance	5,637,272	5,932,900	5,872,780	6,091,043	218,263	3.7%
Laboratory Services	1,602,358	1,643,647	1,570,128	1,721,762	151,635	9.7%
Environmental Services	962,530	1,094,402	1,091,179	1,095,896	4,717	0.4%
Engineering	367,253	507,159	470,114	554,380	84,266	17.9%
Safety	339,545	370,779	373,505	381,463	7,958	2.1%
Information Services	1,522,029	1,747,490	1,723,668	1,697,101	(26,567)	(1.5%)
Administration	3,341,934	3,378,961	3,359,154	3,589,562	230,409	6.9%
TOTAL	\$22,075,480	\$22,975,931	\$22,758,983	\$23,912,933	\$1,153,950	5.1%

Operations

The Operations Division treats the wastewater of the Member Agencies economically and efficiently while meeting or exceeding all requirements of the National Pollutant Discharge Elimination System (NPDES) permit. A stable, well-trained work force monitors and controls process stability while striving to develop new and better operating methods.

The Division has a total of 24 full-time equivalent positions including an Operations Director and three Operations Supervisors. Staff also includes eight Senior Operators, seven Operators, three Utility Workers, and an Administrative Assistant. The Division also includes costs associated with the Wastewater Superintendent position. There are no changes in headcount planned for next year.

Operations Department Expenditures						
Description	Adopted		Proposed	\$	%	
	2015-16	2016-17				
	2015-16	2016-17	2016-17	2017-18	\$	%
	Actual	Budget	Forecast	Budget	Inc/(Decr)	Inc/(Decr)
					v. Forecast	v. Forecast
Personnel:						
Salaries	\$ 2,830,818	\$ 2,961,626	\$ 2,910,471	\$ 3,110,518	\$ 200,047	6.9%
Overtime	144,827	137,833	132,489	136,907	4,418	3.3%
Retirement Benefit Contributions	331,686	338,801	338,238	359,123	20,885	6.2%
Health Insurance	455,408	516,591	517,542	512,463	(5,079)	(1.0%)
Workers' Compensation	59,156	64,449	65,825	81,215	15,389	23.4%
Health Insurance - Retiree	218,255	221,760	222,244	222,613	369	0.2%
Medicare	42,491	44,730	43,903	47,425	3,522	8.0%
Subtotal: Personnel Costs	4,082,640	4,285,790	4,230,712	4,470,974	240,262	5.7%
Utilities	1,646,982	1,754,098	1,733,332	1,597,671	(135,661)	(7.8%)
Equipment & Supplies Expense:						
Office Supplies	517	-	-	-	-	-
Rentals & Leases	111,514	13,500	42,261	13,500	(28,761)	(68.1%)
Supplies & Expenses	31,862	702	8,277	702	(7,575)	(91.5%)
Equipment Maint - Materials	1,511	-	142	-	(142)	(100.0%)
Equipment Maint - Services	-	-	563	-	(563)	(100.0%)
Non-Capital Equipment	1,107	18,630	824	2,705	1,881	228.4%
Subtotal: Equipment & Supplies	146,510	32,832	52,067	16,907	(35,160)	(67.5%)
Chemicals	1,220,701	1,135,875	1,095,301	1,377,005	281,704	25.7%
Contractual Services	1,180,368	1,027,750	1,132,554	1,263,140	130,586	11.5%
Memberships & Meetings	4,061	6,648	4,200	7,920	3,720	88.6%
Conferences & Travel	7,049	18,324	10,105	7,440	(2,665)	(26.4%)
Training	14,246	39,276	40,184	40,668	484	1.2%
TOTAL EXPENDITURES	\$ 8,302,558	\$ 8,300,593	\$ 8,298,455	\$ 8,781,725	\$ 483,270	5.8%

As compared to the 2016-17 Forecast, significant increases / decreases in the operating budget for Operations include:

- Personnel costs will increase \$240 thousand, or 5.7%, of which \$75 thousand was caused by vacancies during 2016-17. Approximately \$161 thousand of the increase is for annual adjustments in pay and associated benefits. Finally, Overtime will increase by \$4 thousand based upon historical trends and exclude rare, sustained weather wet events.

- Utilities costs will decrease by \$136 thousand, or 7.8%, despite the impact of a projected PG&E 10% rate increase worth \$350 thousand. Not only will cogeneration engine performance improve next to reduce energy demand and save \$279 thousand, SVCW will replace aeration mixing equipment and



introduce new technologies to improve the removal of suspended solids which combined save \$238 thousand in electricity.

- Chemicals will increase by \$281.7 thousand (25.7%) next year. Much of this increase is attributable to the change in sludge thickening process. Existing gravity thickeners recently failed and are being replaced by Rotary Drum Thickeners (RDTs). While RDT performance is considered superior due to the higher percent of suspended solids it removes from wastewater, it will require approximately \$130 thousand in polymer. This cost, however produces a clearer effluent that subsequently reduces the amount of energy used in secondary treatment processes.

Additionally, chemical costs will increase as a preventative measure to reduce the speed of corrosion in the force main. Approximately \$73 thousand in additional nitrate will be used at the Menlo Park Pump Station.

- Contractual Services will increase by \$131 thousand (11.5%) in 2017-18, as the cost of biosolids disposal increases.

Maintenance

The Maintenance Division is a service and support function whose objective is to assure that all equipment and facilities operate in a reliable and safe manner through well-planned and administered programs of preventative maintenance, corrective maintenance, replacement, and modification. Maintenance programs are implemented by a well-trained staff utilizing modern administrative and technical tools and skills.

There are 23 full-time equivalent positions in the Maintenance Division. It works under the direction of the Maintenance Director, three Maintenance Supervisors, and a Planner/Scheduler Supervisor. Staff includes nine Senior Plant Mechanics, two Plant Mechanics, three Senior Instrumentation Mechanics, and three Senior Electrical Mechanics. There are no changes in headcount planned for next year.

Maintenance Services Department Expenditures						
Description	2015-16 Actual	Adopted 2016-17 Budget	2016-17 Forecast	Proposed 2017-18 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel:						
Salaries	\$ 2,737,711	\$ 2,936,189	\$ 2,868,532	\$ 3,051,993	\$ 183,461	6.4%
Overtime	59,005	39,723	46,153	46,117	(36)	(0.1%)
Retirement Benefit Contributions	319,177	337,283	330,808	356,861	26,053	7.9%
Health Insurance	433,430	504,071	486,156	506,242	20,085	4.1%
Workers' Compensation	57,880	64,017	65,323	81,722	16,399	25.1%
Health Insurance - Retiree	204,954	212,520	208,291	213,337	5,047	2.4%
Medicare	39,693	42,621	41,894	45,182	3,288	7.8%
Subtotal: Personnel Costs	3,851,850	4,136,424	4,047,157	4,301,455	254,298	6.3%
Equipment & Supplies Expense:						
Rentals & Leases	37,214	35,496	17,248	23,496	6,248	36.2%
Supplies & Expenses	128,525	125,836	147,076	145,876	(1,200)	(0.8%)
Equipment Maint - Materials	736,441	758,904	721,941	727,092	5,151	0.7%
Equipment Maint - Services	684,915	691,512	738,351	736,512	(1,839)	(0.2%)
Non-Capital Equipment	47,148	58,620	62,133	32,160	(29,973)	(48.2%)
Subtotal: Equipment & Supplies	1,634,518	1,670,368	1,686,749	1,665,136	(21,613)	(1.3%)
Professional Services	-	-	6,055	-	(6,055)	(100.0%)
Contractual Services	126,748	63,396	65,679	61,896	(3,783)	(5.8%)
Memberships & Meetings	2,305	4,536	4,924	4,536	(388)	(7.9%)
Conferences & Travel	6,109	7,680	4,735	7,680	2,945	62.2%
Training	15,620	50,496	57,481	50,340	(7,141)	(12.4%)
TOTAL EXPENDITURES	\$ 5,637,272	\$ 5,932,900	\$ 5,872,780	\$ 6,091,043	\$ 218,263	3.7%

As compared to the 2016-17 Forecast, significant increases / decreases in the operating budget for Maintenance include:

- Personnel costs will increase \$254 thousand, or 6.3%. The Maintenance Division has had an electrician position vacant during much of 2016-17. This vacancy contributes \$100 thousand of the increase. Of the remaining increase, approximately \$154 thousand (or 2.6% of Forecast) is due to contractual increases in wages and associated benefits.
- Non-Capital Equipment Expense will decrease by \$30 thousand due to the timing of recent purchases which reduces the number of items purchased next year.

Laboratory Services

The Laboratory Services Division performs all laboratory support for process control and regulatory compliance. Staff is scientifically trained and technically experienced to perform the collection and analysis of wastewater samples.

The Laboratory Director oversees a staff of two Water Quality Specialists, a Lab Analyst I, a Lab Analyst II, a Senior Lab Analyst, and a part-time Lab Assistant. There are no changes in headcount planned for next year.

Laboratory Services Department Expenditures							
Description	2015-16 Actual	Adopted 2016-17 Budget	2016-17 Forecast	Proposed 2017-18 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast	
Personnel:							
Salaries	\$ 771,084	\$ 763,658	\$ 753,177	\$ 804,919	\$ 51,742	6.9%	
Overtime	17,928	15,530	12,669	16,371	3,703	29.2%	
Retirement Benefit Contributions	84,319	87,517	86,596	93,308	6,711	7.7%	
Health Insurance	60,779	113,008	112,871	112,270	(602)	(0.5%)	
Workers' Compensation	15,494	17,988	18,455	23,157	4,702	25.5%	
Health Insurance - Retiree	63,508	64,680	63,726	64,929	1,203	1.9%	
Medicare	11,155	12,045	11,813	12,819	1,006	8.5%	
Subtotal: Personnel Costs	1,024,267	1,074,426	1,059,308	1,127,772	68,464	6.5%	
Administrative Expenses	268,193	237,094	205,965	268,101	62,136	30.2%	
Equipment & Supplies Expense:							
Rentals & Leases	3,037	2,760	1,620	996	(624)	(38.5%)	
Supplies & Expenses	104,456	117,996	109,623	117,996	8,373	7.6%	
Equipment Maint - Materials	4,670	4,746	2,416	4,752	2,336	96.7%	
Equipment Maint - Services	41,850	43,963	43,981	45,320	1,339	3.0%	
Non-Capital Equipment	38,462	30,144	25,366	29,568	4,202	16.6%	
Subtotal: Equipment & Supplies	192,475	199,609	183,006	198,632	15,626	8.5%	
Professional Services	550	31,000	31,500	31,000	(500)	(1.6%)	
Contractual Services	91,697	67,963	62,968	63,943	975	1.5%	
Memberships & Meetings	7,865	9,737	5,876	8,360	2,484	42.3%	
Conferences & Travel	6,955	8,200	7,474	11,700	4,226	56.5%	
Training	10,356	15,618	14,031	12,254	(1,777)	(12.7%)	
TOTAL EXPENDITURES	\$ 1,602,358	\$ 1,643,647	\$ 1,570,128	\$ 1,721,762	\$ 151,635	9.7%	

As compared to the 2016-17 Forecast, significant increases / decreases in the operating budget for Laboratory Services include:

- Personnel costs will increase \$68 thousand, or 6.5%, the result of anticipated increases in pay and associated benefits.
- Administrative Expenses will increase by \$62 thousand, or 30%. SVCW participates in a regional study of San Francisco Bay water quality, which has increased the amount of scientific funds needed to produce its report on nutrient loading.

Environmental Services

The Environmental Services Division supports process control and regulatory compliance. The experienced staff collects samples from on site and in the field, and also administers the Industrial Pretreatment and the Pollution Prevention Programs. The Division issues permits to entities that handle wastewater, groundwater discharge, septic and restaurant grease. It also conducts sanitary sewer complaint response, fats oils and grease inspections and performs public and educational outreach for the communities within our service area.

The Division includes an Environmental Services Director who oversees a Senior Environmental Compliance Inspector, two Environmental Compliance Inspectors, and a Pollution Prevention Specialist. There are no changes in headcount planned for next year.

Environmental Services Department Expenditures							
Description	2015-16 Actual	Adopted 2016-17 Budget	2016-17 Forecast	Proposed 2017-18 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast	
Personnel:							
Salaries	\$ 611,258	\$ 664,606	\$ 661,069	\$ 684,644	\$ 23,574	3.6%	
Overtime	12,297	7,000	4,069	9,348	5,279	129.7%	
Retirement Benefit Contributions	74,522	76,024	75,654	79,819	4,165	5.5%	
Health Insurance	82,247	86,204	84,012	80,298	(3,714)	(4.4%)	
Workers' Compensation	13,369	14,375	14,876	18,211	3,334	22.4%	
Health Insurance - Retiree	46,541	46,200	46,328	46,378	50	0.1%	
Medicare	9,060	9,564	9,488	10,064	576	6.1%	
Subtotal: Personnel Costs	849,295	903,973	895,497	928,760	33,264	3.7%	
Administrative Expenses	24,660	36,311	37,538	37,045	(493)	(1.3%)	
Equipment & Supplies Expense:							
Rentals & Leases	-	1,320	660	-	(660)	(100.0%)	
Supplies & Expenses	17,382	15,996	12,993	14,004	1,011	7.8%	
Equipment Maint - Materials	-	996	498	996	498	100.0%	
Equipment Maint - Services	-	504	252	1,200	948	376.2%	
Non-Capital Equipment	5,247	13,596	6,994	12,600	5,606	80.2%	
Subtotal: Equipment & Supplies	22,629	32,412	21,397	28,800	7,403	34.6%	
Professional Services	13,460	24,500	47,141	24,500	(22,641)	(48.0%)	
Contractual Services	42,911	72,888	73,743	51,948	(21,795)	(29.6%)	
Memberships & Meetings	2,620	3,394	2,204	3,455	1,251	56.8%	
Conferences & Travel	3,582	11,600	7,631	13,000	5,369	70.4%	
Training	3,372	9,324	6,029	8,388	2,359	39.1%	
TOTAL EXPENDITURES	\$ 962,530	\$ 1,094,402	\$ 1,091,179	\$ 1,095,896	\$ 4,717	0.4%	

As compared to the 2016-17 Forecast, significant increases / decreases in the operating budget for Environmental Services include:

- Personnel costs will increase \$33.2 thousand, or 3.7%, the result of anticipated increases in pay and associated benefits.
- Professional Services will decline by \$22.6 thousand as consulting associated with the recent renewal of SVCW's air permit is not needed next year.
- The Contractual Services budget has been decreased by \$21.8 thousand (29.6%) to recognize a lower probability of a toxic chemicals event that could require additional laboratory services.

Engineering

The Engineering Division is responsible for improvements and replacement of SVCW capital facilities. Engineering staff provides oversight, direction, and management of the capital improvement projects. It works to build safe, innovative, sustainable, efficient, and cost-effective infrastructure that ensures the longevity of SVCW facilities and protects the investments made by customers. Engineering achieves this through building successful partnerships with peers, consultants, and contractors from a project's inception through construction and into start-up with the highest levels of professionalism, integrity, and fairness.

The Division works under the direction of the Engineering Director. The staff includes a Senior CIP Manager, four Senior Engineers, one Administrative Assistant, and two Engineering Interns during the summer. Engineering labor is predominantly charged to capital projects; therefore the 2017-18 Operating Budget contains 75% of the Engineering Director and 50% of a Senior Engineer. This is a 0.25 change in Full Time Equivalent work spent on operating activities.

Engineering Department Expenditures						
Description	2015-16 Actual	Adopted 2016-17 Budget	2016-17 Forecast	Proposed 2017-18 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel:						
Salaries	\$ 143,098	\$ 196,553	\$ 171,632	\$ 222,336	\$ 50,705	29.5%
Retirement Benefit Contributions	15,256	20,924	19,884	26,680	6,797	34.2%
Health Insurance	14,999	20,740	20,557	21,486	929	4.5%
Payroll Tax	424	1,375	66	-	(66)	(100.0%)
Workers' Compensation	2,330	3,069	2,991	3,863	872	29.2%
Health Insurance - Retiree	8,497	13,860	11,151	11,594	443	4.0%
Medicare	1,942	2,850	2,488	3,224	736	29.6%
Subtotal: Personnel Costs	186,546	259,372	228,768	289,184	60,416	26.4%
Equipment & Supplies Expense:						
Office Supplies	996	-	-	-	-	0.0%
Supplies & Expenses	2,751	11,376	10,737	8,616	(2,121)	(19.8%)
Subtotal: Equipment & Supplies	4,128	11,376	10,737	8,616	(2,121)	(19.8%)
Professional Services	133,142	184,996	184,410	184,996	586	0.3%
Memberships & Meetings	10,428	19,914	18,794	20,679	1,885	10.0%
Conferences & Travel	20,812	24,700	23,567	39,000	15,433	65.5%
Training	915	6,801	3,838	11,905	8,067	210.2%
TOTAL EXPENDITURES	\$ 367,253	\$ 507,159	\$ 470,114	\$ 554,380	\$ 84,266	17.9%

As compared to the 2016-17 Forecast, significant increases / decreases in the operating budget for Engineering include:

- Personnel costs will increase \$60 thousand, or 26.4%. Approximately \$11 thousand reflects anticipated increases in pay and associated benefits. The remaining \$49 thousand increase represents a small increase in the percentage of engineering labor spent on operating matters rather than capital projects.
- Conferences and Travel expenses, as well as Training, will increase next year by a combined \$23 thousand as Engineering staff research and prepare for the large conveyance capital projects.

Safety

The Safety Division develops, implements, and oversees all safety programs for the agency. It is staffed with one Health and Safety Director. There are no changes in headcount planned for next year.



Safety Department Expenditures							
Description	Adopted		2016-17 Forecast	Proposed 2017-18 Budget	\$	%	
	2015-16 Actual	2016-17 Budget			Incr/(Decr) v. Forecast	Incr/(Decr) v. Forecast	
Personnel:							
Salaries	\$ 169,402	\$ 149,803	\$ 152,148	\$ 159,445	\$ 7,297	4.8%	
Retirement Benefit Contributions	17,086	16,240	17,082	18,536	1,454	8.5%	
Health Insurance	3,898	27,003	28,082	26,812	(1,270)	(4.5%)	
Workers' Compensation	3,126	3,717	3,635	4,204	569	15.7%	
Health Insurance - Retiree	9,311	9,240	9,732	9,276	(457)	(4.7%)	
Medicare	2,441	2,509	2,346	2,313	(34)	(1.4%)	
Subtotal: Personnel Costs	205,264	208,512	213,025	220,584	7,559	3.5%	
Administrative Expenses	16,954	25,500	22,150	25,500	3,350	15.1%	
Equipment & Supplies Expense:							
Rentals & Leases	9,540	-	695	-	(695)	(100.0%)	
Supplies & Expenses	63,178	78,636	78,030	75,744	(2,286)	(2.9%)	
Equipment Maint - Materials	9,614	2,748	8,060	2,748	(5,312)	(65.9%)	
Equipment Maint - Services	1,568	6,554	3,252	6,000	2,748	84.5%	
Non-Capital Equipment	908	2,604	1,684	2,604	921	54.7%	
Subtotal: Equipment & Supplies	84,808	90,542	91,720	87,096	(4,624)	(5.0%)	
Contractual Services	9,978	14,400	27,493	20,154	(7,339)	(26.7%)	
Memberships & Meetings	2,798	2,760	886	2,760	1,874	211.5%	
Conferences & Travel	2,331	5,065	3,097	5,365	2,268	73.3%	
Training	16,873	24,000	14,955	20,004	5,049	33.8%	
TOTAL EXPENDITURES	\$ 339,545	\$ 370,779	\$ 373,505	\$ 381,463	\$ 7,958	2.1%	

As compared to the 2016-17 Forecast, significant increases / decreases in the operating budget for Safety include:

- Personnel costs will change only \$7.5 thousand (3.5%), the result of anticipated increases in pay and associated benefits.
- Supplies & Expenses, as well as Professional Services, will decline next year. As SVCW implements new financial software, ordinary operating costs that support financial and work order management solutions are deferred and/or integrated into the capitalized software project.

Information Services

The Information Services Division manages all computers and information systems of the agency. The Information Services Director oversees one Senior Information System Analyst and an Information System Analyst.

Information Services Department Expenditures							
Description	2015-16 Actual	Adopted 2016-17 Budget	2016-17 Forecast	Proposed 2017-18 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast	
Personnel:							
Salaries	\$ 441,695	\$ 447,170	\$ 449,849	\$ 460,536	\$ 10,686	2.4%	
Overtime	17,953	16,688	14,228	17,143	2,914	20.5%	
Retirement Benefit Contributions	49,969	49,927	50,558	53,115	2,557	5.1%	
Health Insurance	27,693	42,985	44,061	42,799	(1,262)	(2.9%)	
Workers' Compensation	9,250	10,226	10,683	12,905	2,221	20.8%	
Health Insurance - Retiree	27,923	27,720	28,115	27,827	(288)	(1.0%)	
Medicare	6,560	6,811	6,858	7,183	325	4.7%	
Subtotal: Personnel Costs	581,043	601,528	604,353	621,507	17,154	2.8%	
Utilities	147,983	171,540	157,365	179,340	21,975	14.0%	
Equipment & Supplies Expense:							
Rentals & Leases	35,724	34,980	31,479	34,200	2,721	8.6%	
Supplies & Expenses	114,708	160,400	159,926	150,600	(9,326)	(5.8%)	
Equipment Maint - Services	149,534	259,050	258,716	278,780	20,064	7.8%	
Non-Capital Equipment	142,851	72,404	71,202	56,000	(15,202)	(21.4%)	
Subtotal: Equipment & Supplies	442,817	526,834	521,322	519,580	(1,742)	(0.3%)	
Professional Services	187,851	282,396	280,929	219,996	(60,933)	(21.7%)	
Contractual Services	118,930	130,300	126,541	135,000	8,459	6.7%	
Memberships & Meetings	1,634	1,892	843	1,682	839	99.5%	
Conferences & Travel	45	9,000	4,815	7,000	2,185	45.4%	
Training	41,726	24,000	27,499	12,996	(14,503)	(52.7%)	
TOTAL EXPENDITURES	\$ 1,522,029	\$ 1,747,490	\$ 1,723,668	\$ 1,697,101	\$ (26,567)	(1.5%)	

As compared to the 2016-17 Forecast, total expenditures in the Information Services Division will decrease by \$26.6 thousand, or 1.5%. Significant variances include:

- Personnel costs will increase \$17 thousand, or 2.8%, for anticipated increases in pay and associated benefits. This figure also includes a \$2.9 thousand increase in overtime from the current year, as staff expertise is used in lieu of higher-cost consultants.
- Utilities will increase by \$21.9 thousand (14%) in anticipation of remote devices deployed for the Operations and Maintenance Divisions.
- The Division will experience decreases in Supplies, Non-Capital Equipment, and Professional Services next year. This may be a temporary reduction while the new Accounting and Work Order Management platform is developed.
- The Information Systems Division used to budget for certain training of software used by other divisions. Next year's budget deploys those training dollars to those specific departments.



Administrative Services

The Administrative Services Division provides legal, financial, personnel, and administrative support to the Commission, General Manager, and other Divisions. It is committed to presenting a positive and professional image of SVCW to the general public and Member Agencies. The Division is responsible for accounting, human resources, purchasing, risk management, and asset management. Costs for the Agency Commission, Controller, Attorney, Manager, Assistant Manager, and CFO are included in the Administrative Services Division. Additionally, certain accounting and data processing services are provided by Redwood City.

The Division works under the direction of the Administrative Services Director and the Chief Financial Officer. The Administrative Services Director is scheduled to retire in December 2017. Administrative staff includes 1.63 Assistants, one Human Resources Director, and one Materials Services Supervisor (with a staff of two Purchasing Coordinators). The Chief Financial Officer manages one Financial Analyst, one Accountant, and a part-time Accounting Technician. To prepare for the implementation of a new accounting system, this budget proposes to add a new Accounting Supervisor Position.

Administrative Services Department Expenditures						
Description	2015-16 Actual	Adopted 2016-17 Budget	2016-17 Forecast	Proposed 2017-18 Budget	\$ Incr/(Decr) v. Forecast	% Incr/(Decr) v. Forecast
Personnel:						
Salaries	\$ 2,011,542	\$ 2,024,014	\$ 2,004,353	\$ 2,160,939	\$ 156,586	7.8%
Overtime	10,956	7,387	10,720	7,036	(3,684)	(34.4%)
Other Employee Benefits	4,837	4,800	4,731	2,409	(2,322)	(49.1%)
Retirement Benefit Contributions	224,158	217,872	222,489	249,324	26,835	12.1%
Health Insurance	223,514	244,115	245,454	252,919	7,465	3.0%
Payroll Tax	851	485	1,671	-	(1,671)	0.0%
Workers' Compensation	11,035	12,181	13,998	14,498	500	3.6%
Health Insurance - Retiree	143,262	123,200	128,857	122,901	(5,956)	(4.6%)
Medicare	28,853	28,716	29,104	31,637	2,533	8.7%
Subtotal: Personnel Costs	2,659,008	2,662,769	2,661,377	2,841,662	180,286	6.8%
Administrative Expenses	76,016	108,923	106,803	117,505	10,702	10.0%
Equipment & Supplies Expense:						
Office Supplies	10,121	13,500	13,728	13,930	202	1.5%
Rentals & Leases	1,090	876	903	1,032	129	14.3%
Supplies & Expenses	76,811	67,781	67,793	76,542	8,749	12.9%
Non-Capital Equipment	2,773	-	193	1,200	1,007	520.4%
Subtotal: Equipment & Supplies	90,795	82,157	82,617	92,704	10,087	12.2%
Professional Services	406,748	384,647	381,505	398,625	17,120	4.5%
Contractual Services	56,496	68,380	58,846	69,258	10,412	17.7%
Memberships & Meetings	24,509	25,947	31,224	26,315	(4,909)	(15.7%)
Conferences & Travel	16,259	24,590	21,766	27,310	5,545	25.5%
Training	12,103	21,548	15,017	16,183	1,166	7.8%
TOTAL EXPENDITURES	\$ 3,341,934	\$ 3,378,961	\$ 3,359,154	\$ 3,589,562	\$ 230,409	6.9%

As compared to the 2016-17 Forecast, significant increases / decreases in the operating budget for Administrative Services include:

- Personnel costs will increase \$180 thousand, or 6.9%. The Division budgeted for ordinary salary increases and also reflects a retirement of the Administrative Services Director and the hiring of a new Accounting Supervisor. The Accounting Supervisor role will focus on the new accounting software platform and ultimately accommodate activities now performed by Redwood City finance staff.
- Administrative Expenses will increase by \$10 thousand (10%) for higher liability and property insurance premiums, and to pay banking fees associated with new 2017 bonds.
- Supplies & Expenses will increase by \$8.7 thousand (12.9%), additional cleaning supplies needed to improve cleanliness, as well as a rate increase for uniform laundry.
- Professional Services will increase by \$17.1 thousand (4.5%). This represents an increase in legal fees needed for updating of Human Resource Policies, offset by a decrease in consulting fees associated with a recent compensation and salary study.
- Travel will increase by \$5.5 thousand (25.5%) as SVCW pursues federal loan funding.



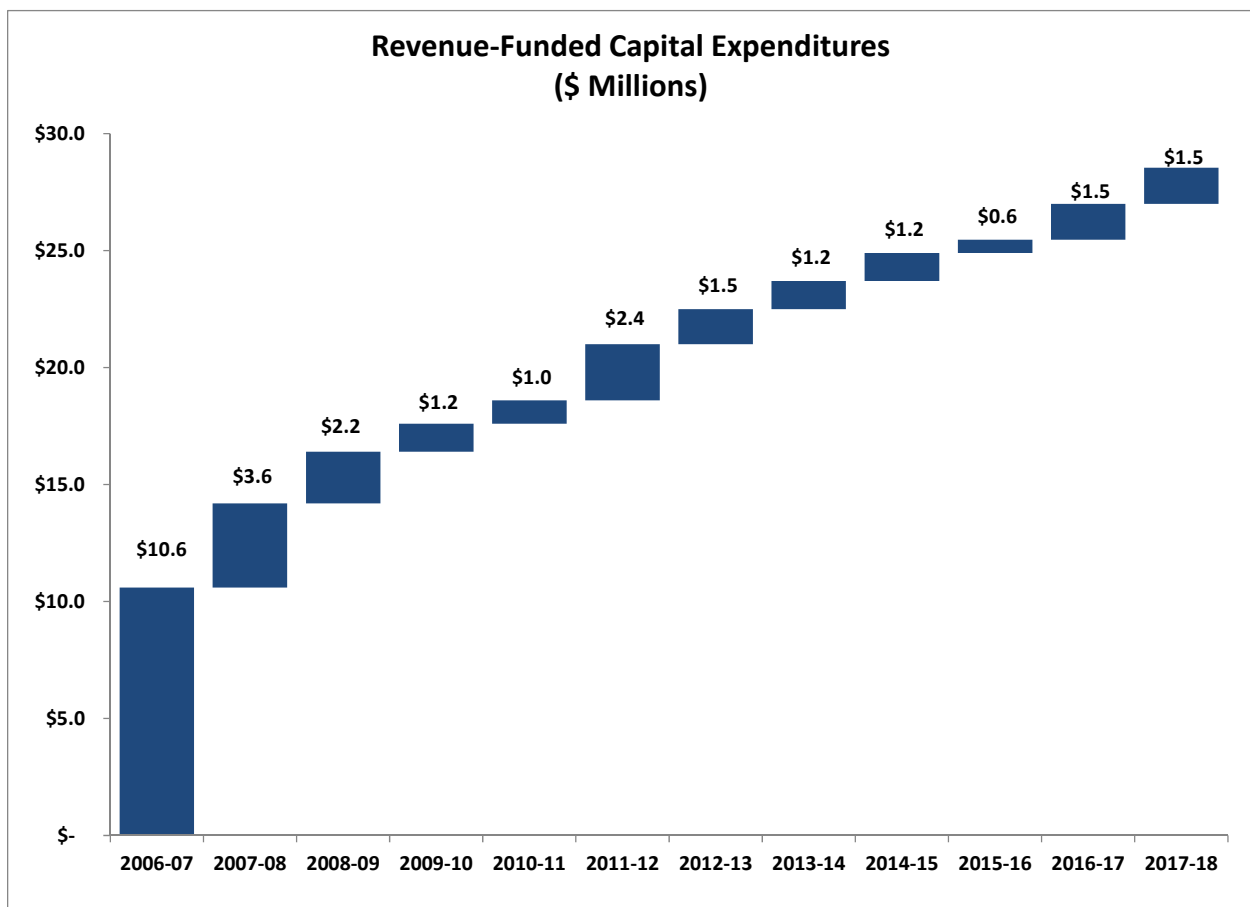
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SECTION 4 – REVENUE-FUNDED CAPITAL EXPENDITURES

Summary:

Revenue-Funded Capital Expenditures are for capital projects that less than \$1 million and completed within one year. These projects offer identifiable improvements in the short term. Revenue-funded capital expenditures may include minor construction projects, major maintenance and rehabilitation projects, planning studies, and preliminary engineering analysis for major capital improvements. It is therefore appropriate to fund such projects using available cash funds rather than financing them over 30 years.

Since 2006-07, SVCW has spent approximately \$27 million on Revenue-Funded capital expenditures. Prior to formally adopting the Capital Improvement Program in fiscal year 2008-09, Member Agencies made large cash contributions of \$10.6 million that were needed to address immediate project needs. Since 2008-09, however, SVCW has averaged \$1.4 million annually in Revenue-Funded capital expenditures.



The 2017-18 Budget of \$1.55 million for Revenue-Funded capital expenditures includes:

Proposed 2017-18 Revenue-Funded Capital Expenditures	
Description	One-time Cost
Force Main Valves	
V3 and V4 - Valves on 48" FM	\$ 300,000
Treatment Plant Equipment	
Front Loader for Sludge Beds	\$ 185,000
Sludge Bed Covers for stockpile & Equipment	125,000
Biosolids Transfer Truck	110,000
Fleet Replacement	50,000
Digester Sensors & Flowmeters on mix pumps	30,000
Electric cart	21,000
Forklift Replacement, Operations	35,000
Subtotal	<u>\$ 556,000</u>
Pump Station Valves & Equipment	
Menlo Park Pump Station Inlet Gate Replacement	\$ 110,000
Pump Station Valves - San Carlos PS	270,000
Valves for Belmont Pump Station	92,000
Menlo Park Pump Station Nitrate dosing system	45,000
FEF Control Valve	50,000
Subtotal	<u>\$ 567,000</u>
Technology	
I.T. Data Storage Equipment	\$ 73,000
Blades for VM servers and Controller Cards	50,000
Subtotal	<u>\$ 123,000</u>
GRAND TOTAL, REVENUE-FUNDED CAPITAL	<u>\$ 1,546,000</u>

The above projects will maintain critical operations, increase productivity, and reduce operating costs. Key activities include:

- Force Main – Valves 3 and 4 will be replaced on the 48-inch forcemain to control flow into the San Carlos Booster Station. This is to finish the reliability project at San Carlos Booster Station, which saw Valves 1 and 2 replaced in 2016-17.
- Treatment Plant Equipment – Biosolids operations will be made more efficient by purchasing a larger front end loader, a tractor to position trailers, and a cover under which dried biosolids can be temporarily stored during the wet season. The Operations Division is also in need of a forklift and electric cart.

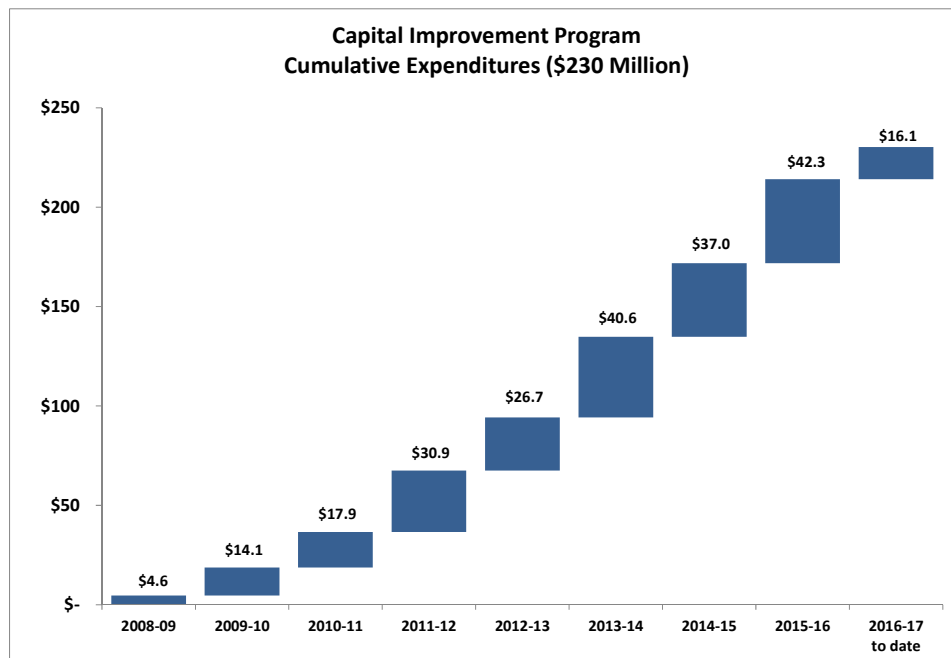
- Pump Stations – Old existing valves that are no longer able to fully open and close will be replaced. Will also install a new calcium nitrate dosing system at the Menlo Park Pump Station to control corrosion on the 33” Reinforced Concrete Pipe forcemain.
- Technology – The Information Systems Division recommends replacements of data storage equipment as well as server blades and controller cards next year.

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SECTION 5 – CAPITAL IMPROVEMENT PROGRAM & DEBT SERVICE

Background:

SVCW's wastewater treatment plant was constructed in 1980 and connected to an influent conveyance 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 CIP to replace and rehabilitate wastewater conveyance and treatment systems in a structured and prioritized manner. Now in its ninth year, the CIP has completed over 100 projects and spent \$230 million.



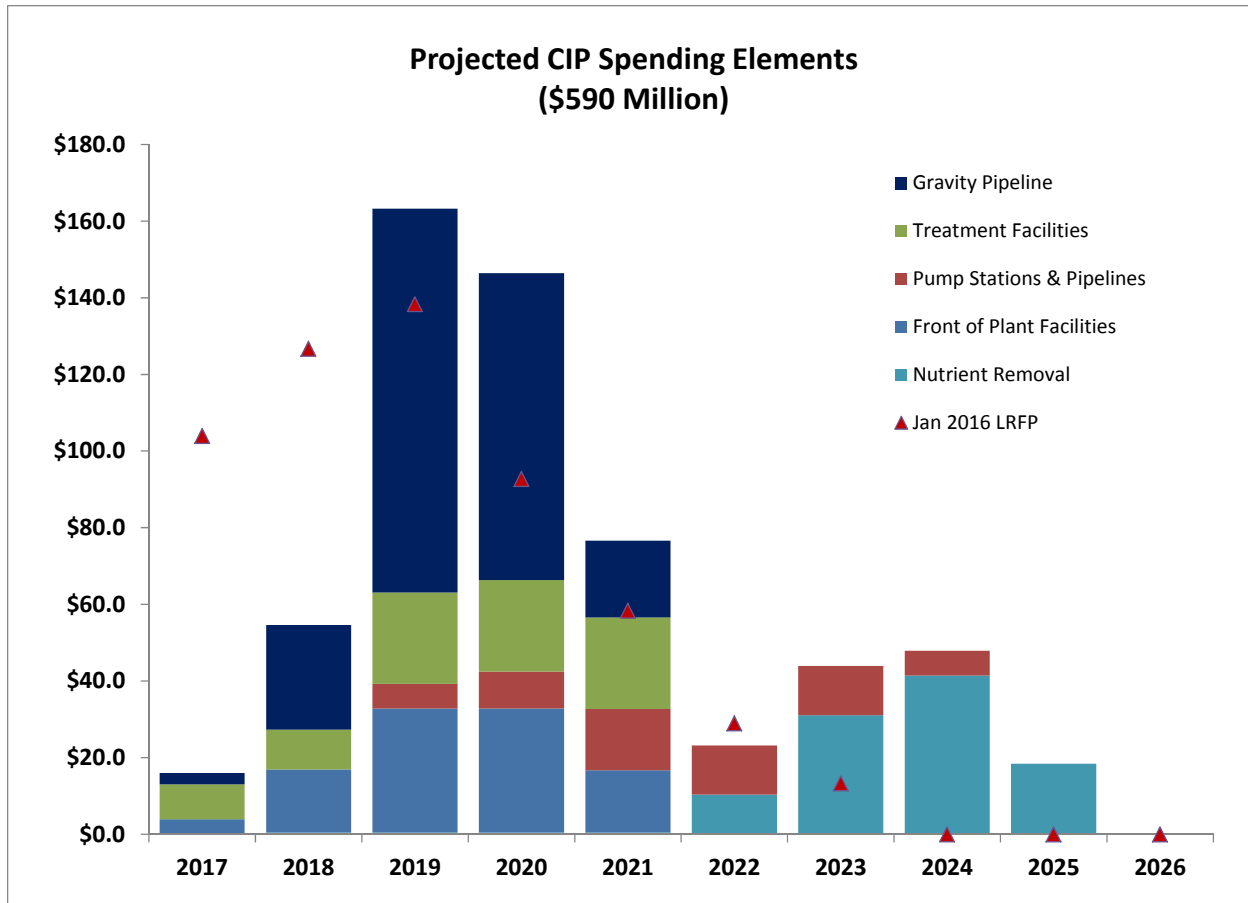
CIP Expenditures since 2006-07	
Program	Value
Conveyance System	\$ 78,738,025
Energy and Automation	74,794,424
General Plant Facilities	34,895,735
Solids Handling	16,923,966
Plant Process	12,156,619
Corrosion and Odor Control	11,265,346
Nutrient Removal	649,490
CIP Support	865,869
TOTAL	\$ 230,289,474

CIP Projected Expenditures:

Each year, SVCW produces a Long Range Financial Plan (LRFP) to describe the total cash flows required by SVCW over the next decade. This includes funding for all SVCW operations, revenue-funded capital projects, Capital Improvement Program projects and their associated debt service payments, and necessary cash reserve contributions. Meant to encourage discussion and support decision making, the LRFP provides up-to-date financial information so that Member Entities have the information needed to understand the financial implications of those decisions and to communicate with internal and external stakeholders.

The CIP is a guiding document of the LRFP, and is currently estimated at \$815 million from inception (as measured in September 2016 dollars). Recognizing the \$230 million in to-date spending, approximately \$590 million in expenditures remains scheduled through 2022-23:

Projected CIP Expenditures (\$590 Million)											
Project	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Treatment Facilities			\$90.96M								
Gravity Pipeline			\$230.55M								
Front-of-Plant Facilities			\$100.97M								
Pump Stations / Pipelines			\$64.24M								
Nutrient Removal						\$103.7M					



The largest projects, including the gravity pipeline and nutrient removal, will produce capital expenditures above \$100 million in two consecutive years. As construction is completed, fixed assets of each Member Entity would be increased by their allocable percentages (below):

SVCW Remaining Capital Expenditures - By Fiscal Year End and Member Allocation										
Member Entity	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Belmont	\$ 1,520,000	\$ 5,160,000	\$ 15,430,000	\$ 13,840,000	\$ 7,240,000	\$ 2,190,000	\$ 4,150,000	\$ 4,520,000	\$ 1,740,000	\$ 55,790,000
Redwood City	7,800,000	26,530,000	79,280,000	71,120,000	37,200,000	11,280,000	21,350,000	23,260,000	8,940,000	286,750,000
San Carlos	2,430,000	8,270,000	24,710,000	22,170,000	11,600,000	3,520,000	6,650,000	7,250,000	2,790,000	89,390,000
West Bay SD	4,310,000	14,660,000	43,810,000	39,300,000	20,560,000	6,230,000	11,800,000	12,850,000	4,940,000	158,460,000
TOTAL	\$ 16,050,000	\$ 54,630,000	\$163,230,000	\$146,430,000	\$ 76,600,000	\$ 23,220,000	\$ 43,950,000	\$ 47,880,000	\$ 18,400,000	\$590,390,000

Debt Service:

The LRFP recommended a debt implementation strategy to fully fund the remaining capital improvements. Due to the compressed timing and extensive cost of the CIP, as well as the absence of significant cash reserves, the most practical funding method is to use long-term debt. The Plan therefore developed multiple debt financing scenarios by comparing interest rates and average costs per year. In general, the majority of the CIP will be funded through a hybrid mix of government loans and wastewater revenue bonds.

Compared to the January 2016 LRFP, the LRFP incorporated three significant changes:

- **Timing** – SVCW continues to plan the replacement and rehabilitation of the entire wastewater conveyance system. During 2016, additional studies and evaluations of this plan were delivered that caused retiming of the program. Approximately \$160 million in capital expenditures has been shifted from FY 2016-17 and FY 2017-18 to later years.
- **Inflation** – Since adoption of the 2015 CIP update construction costs have risen by 3.7%. This LRFP incorporates the Engineering News Record San Francisco Bay Area Construction Cost Index into its capital expenditure forecast, adding approximately \$21 million.
- **Financing Sources** – As the administrator of the Clean Water State Revolving Fund (“SRF”) loan program, the California State Water Resource Control Board has advised the program is now oversubscribed. They caution that, unless the state takes additional funding action, it is unable to satisfy the full demand for wastewater capital programs. This LRFP therefore no longer presumes broad availability of SRF loans and instead plans for a hybrid approach utilizing SRF and other government funding programs, as well as wastewater revenue bonds.

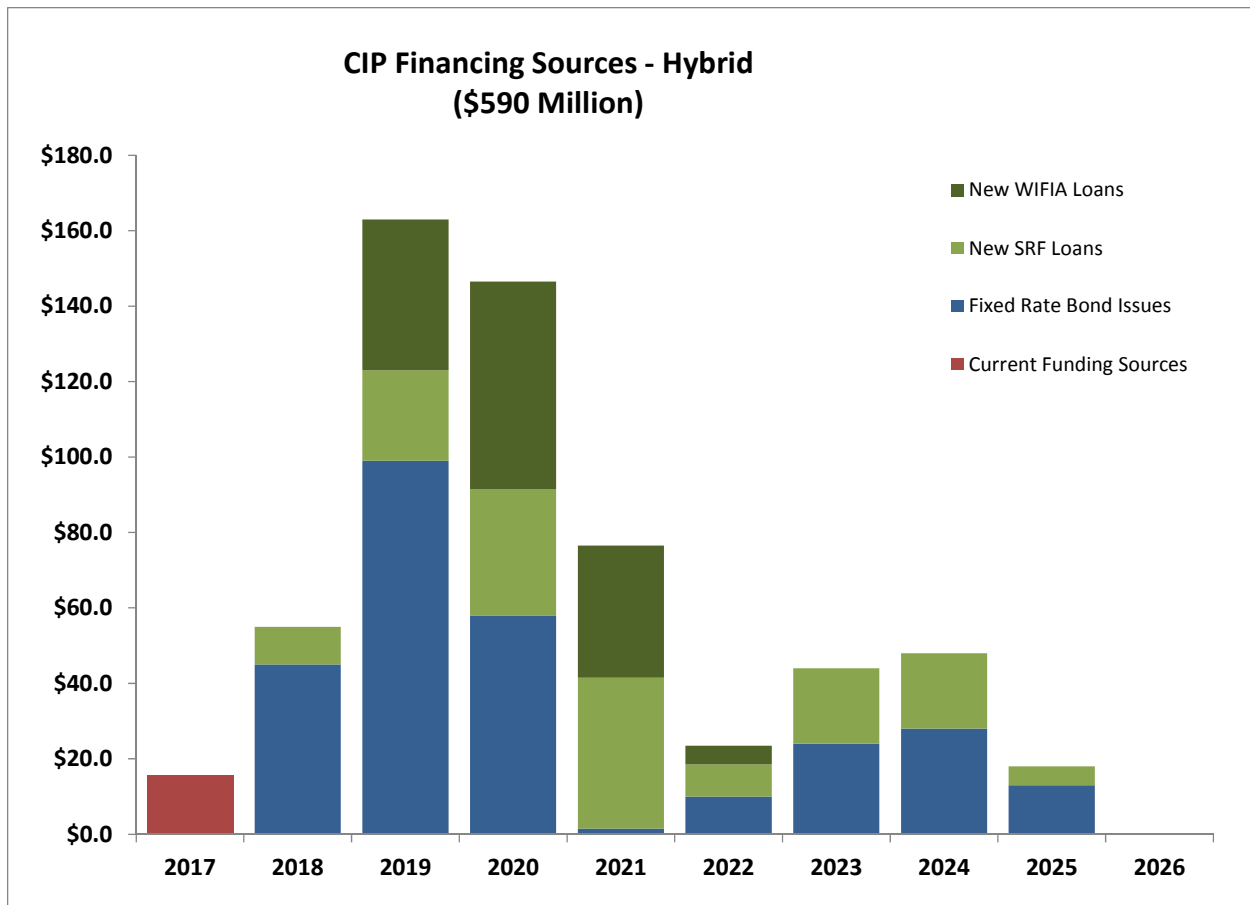
To fund spending to date, over \$246 million was sourced from a combination of Wastewater Revenue Bonds, SRF Loans, government grants, and Member cash contributions. Existing debt service payments were derived from this borrowing:

Source of CIP Funds to date (\$ millions)		
Description	All-in TIC / Interest	Proceeds
Bonds		
2008 Bonds	5.03%	\$ 10,013,486
2009 Bonds	5.12%	55,855,000
2014 Bonds	4.18%	65,537,275
2015 Bonds	3.75%	30,000,000
Subtotal - Bonds		161,405,761
Cash Contributions in lieu of Debt		
Belmont		17,243,027
Redwood City		10,000,000
Subtotal - Cash		27,243,027
State Revolving Fund Loans		
Control Building	2.60%	11,359,882
WWTP Improvements	1.80%	30,000,000
Conveyance Planning	1.60%	14,000,000
Subtotal - SRF		55,359,882
Grant Funding		
Cogeneration		2,400,000
California Energy Commission (Food Waste)		500,000
Subtotal - Grant Funding		2,900,000
TOTAL		\$ 246,908,670

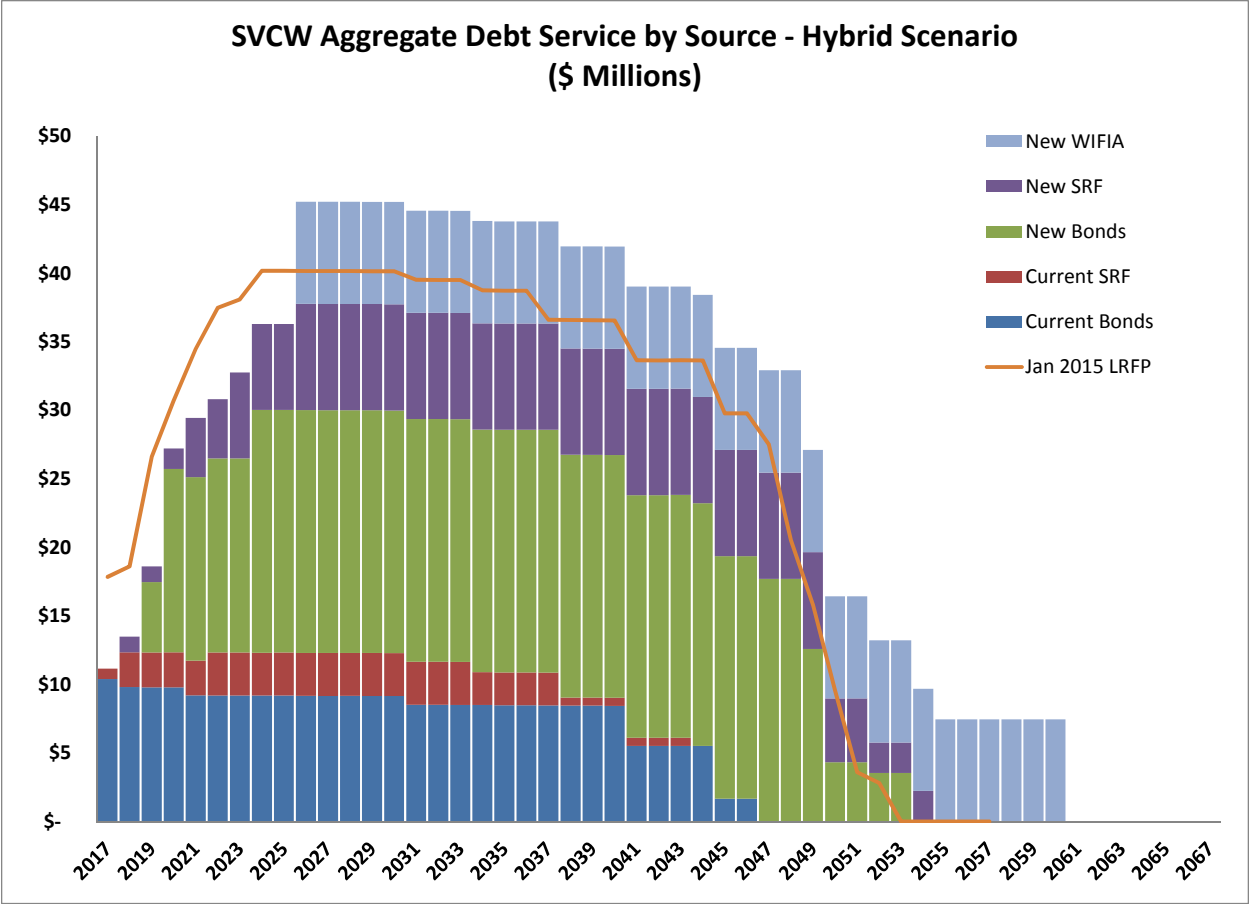
The LRFP recommended that, for future debt, SVCW use a Hybrid structure that draws from a blend of revenue bonds and governmental loans. This prudent approach recognizes the oversubscribed SRF program is unlikely to fund much of SVCW capital needs. It still pursues low-cost funding sources as much as possible, namely the WIFIA programs. If successful, this approach would 1) still reduce debt service costs; 2) take advantage of payments deferrals when appropriate; 3) partially insulate the Authority from interest rate increases; 4) reduce “negative carry” since government loans allow borrowers to draw construction funds as needed; and 5) provide less onerous debt service coverage requirements than capital market funding requirements for the ratings assigned (Aa2/AA/NR).

The Hybrid Scenario includes:

- Revenue bonds (\$278.5 million):
 - Three fixed-rate bond issuances, with interest rates of 4.75% for first bond issued in 2016 and 5.25% thereafter
 - One variable rate bond issuance with a total average cost of 3.40%
 - No debt service reserve fund
 - Debt service payments starting no more than one year from the date of issuance
 - Deferred amortization resulting in one year of interest only payments for fixed rate bond issues
- SRF Loans (\$161 million):
 - SRF Loan interest rates of 2.00% for first loan issued in 2016 and 2.50% thereafter
 - A debt service reserve fund equal to one year’s debt service
 - Debt service payments starting one year after the completion of the project
 - Level debt service
 - Thirty year amortizations.
- WIFIA Loan (\$135 million):
 - WIFIA interest rates of 3.25%
 - No debt service reserve fund
 - Debt service payments starting three years after the completion of the project
 - Level debt service
 - A thirty-five year amortization.



Combined, the Hybrid Scenario funds \$296 million through Government Loans. The weighted average cost of capital for the future CIP is 3.65% while the weighted average repayment for future CIP is 20.6 years. At its peak, the combined new debt will add an additional \$32.9 million in debt service payments atop existing debt.



Debt Service in 2017-18 will be \$12.35 million and is allocated to Member Entities according to JPA-defined percentage of ownership as well as their participation. As SVCW continues to fund CIP construction, debt service payments will peak in 2025-26 once significant projects are complete and payments commence.

Projected Debt Service through FYE 2027 (Hybrid Scenario) - Aggregate						
Fiscal Year-end	Current Bonds	Current SRF	New Bonds	New SRF Debt Service	New WIFIA Debt Service	
2018	\$ 9,805,603	\$ 2,541,983	\$ -	\$ -	\$ -	\$ 12,347,586
2019	9,791,073	2,541,983	5,120,598	-	-	17,453,655
2020	9,796,799	2,541,983	13,380,490	688,591	-	26,407,863
2021	9,195,000	2,541,983	13,380,490	3,102,545	-	28,220,018
2022	9,190,000	3,133,229	14,171,448	3,102,545	-	29,597,221
2023	9,186,875	3,133,229	14,171,448	5,527,642	-	32,019,194
2024	9,180,125	3,133,229	17,707,620	5,527,642	-	35,548,616
2025	9,189,125	3,133,229	17,707,620	5,527,642	-	35,557,616
2026	9,168,750	3,133,229	17,707,620	7,750,879	7,452,943	45,213,421
2027	9,159,000	3,133,229	17,707,620	7,750,879	7,452,943	45,203,671

Detailed debt service payment schedules by Member are provided as follows:

Belmont:

Projected Debt Service through FYE 2027 (Hybrid Scenario) - Belmont						
Fiscal Year-end	Current Bonds	Current SRF	New Bonds	New SRF Debt Service	New WIFIA Debt Service	
2018	\$ -	\$ 170,051	\$ -	\$ -	\$ -	\$ 170,051
2019	-	170,051	483,896	-	-	653,948
2020	-	170,051	1,264,456	65,072	-	1,499,579
2021	-	170,051	1,264,456	293,190	-	1,727,698
2022	-	225,924	1,339,202	293,190	-	1,858,316
2023	-	225,924	1,339,202	522,362	-	2,087,488
2024	-	225,924	1,673,370	522,362	-	2,421,656
2025	-	225,924	1,673,370	522,362	-	2,421,656
2026	-	225,924	1,673,370	732,458	704,303	3,336,055
2027	-	225,924	1,673,370	732,458	704,303	3,336,055

Redwood City:

Projected Debt Service through FYE 2027 (Hybrid Scenario) - Redwood City						
Fiscal Year-end	Current Bonds	Current SRF	New Bonds	New SRF Debt Service	New WIFIA Debt Service	
2018	\$ 5,156,767	\$ 1,272,286	\$ -	\$ -	\$ -	\$ 6,429,053
2019	5,149,125	1,272,286	2,487,074	-	-	8,908,486
2020	5,152,137	1,272,286	6,498,904	334,449	-	13,257,775
2021	4,835,651	1,272,286	6,498,904	1,506,906	-	14,113,746
2022	4,833,021	1,559,454	6,883,072	1,506,906	-	14,782,453
2023	4,831,378	1,559,454	6,883,072	2,684,776	-	15,958,680
2024	4,827,828	1,559,454	8,600,591	2,684,776	-	17,672,649
2025	4,832,561	1,559,454	8,600,591	2,684,776	-	17,677,382
2026	4,821,846	1,559,454	8,600,591	3,764,602	3,619,895	22,366,387
2027	4,816,718	1,559,454	8,600,591	3,764,602	3,619,895	22,361,260

San Carlos:

Projected Debt Service through FYE 2027 (Hybrid Scenario) - San Carlos						
Fiscal Year-end	Current Bonds	Current SRF	New Bonds	New SRF Debt Service	New WIFIA Debt Service	
2018	\$ 1,687,544	\$ 396,588	\$ -	\$ -	\$ -	\$ 2,084,132
2019	1,685,044	396,588	775,259	-	-	2,856,890
2020	1,686,029	396,588	2,025,806	104,253	-	4,212,676
2021	1,582,460	396,588	2,025,806	469,725	-	4,474,579
2022	1,581,599	486,102	2,145,557	469,725	-	4,682,984
2023	1,581,061	486,102	2,145,557	836,885	-	5,049,606
2024	1,579,900	486,102	2,680,934	836,885	-	5,583,821
2025	1,581,448	486,102	2,680,934	836,885	-	5,585,369
2026	1,577,942	486,102	2,680,934	1,173,483	1,128,376	7,046,837
2027	1,576,264	486,102	2,680,934	1,173,483	1,128,376	7,045,159

West Bay Sanitary District:

Projected Debt Service through FYE 2027 (Hybrid Scenario) - West Bay Sanitary District						
Fiscal Year-end	Current Bonds	Current SRF	New Bonds	New SRF Debt Service	New WIFIA Debt Service	
2018	\$ 2,961,292	\$ 703,058	\$ -	\$ -	\$ -	\$ 3,664,350
2019	2,956,904	703,058	1,374,368	-	-	5,034,331
2020	2,958,633	703,058	3,591,323	184,818	-	7,437,833
2021	2,776,890	703,058	3,591,323	832,723	-	7,903,995
2022	2,775,380	861,749	3,803,617	832,723	-	8,273,468
2023	2,774,436	861,749	3,803,617	1,483,619	-	8,923,421
2024	2,772,398	861,749	4,752,725	1,483,619	-	9,870,491
2025	2,775,116	861,749	4,752,725	1,483,619	-	9,873,209
2026	2,768,963	861,749	4,752,725	2,080,336	2,000,370	12,464,142
2027	2,766,018	861,749	4,752,725	2,080,336	2,000,370	12,461,198

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SECTION 6 – CASH RESERVES DESIGNATION

SVCW has adopted a Cash Reserves Policy that describes the goals and amounts intended to be held in reserves. The reserves can help mitigate the negative impact of revenue shortfalls from economic fluctuations, fund unforeseen expense requirements, provide stable rates for member entities, and fund future long-term capital needs. Each year during the budget process, their balances are reviewed and adjusted as needed.

- The **Operating Reserve** must be maintained at a minimum balance of 10% of the approved Operating 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. The projected balance in Operating Reserves is \$3.49 million at June 30, 2017, including investment earnings. This amount exceeds the policy's required balance of \$3.42 million by \$101 thousand. Per policy, this amount will be credited to reduce Member Agencies' 2017-18 contributions.
- The **Capital Improvement Program Reserve** (CIP Reserve) goal is to accrue funds equal to the annual calculated depreciation of SVCW facilities to meet the long term needs of replacing capital assets when their useful life has been met. This would allow major expenses in the future to be paid for on a "pay-go" basis and limit the need for borrowing. Each year, if funds held in these reserves fall below targeted levels, SVCW makes budget adjustments in order to return to the target level. The CIP Reserve is also designed to align with requirements of the SRF loan program, which requires reserves equal to one year's Annual Debt Service (ADS). According to the January 2017 Long Term Financial Plan, the SRF Loan program's ADS is projected to reach \$10.9 million by 2025-26. The CIP Reserve is projected to be \$16.1 million balance by June 30, 2017, which meets SRF reserve requirements. Therefore, this budget calls for reserve contributions equal to \$1 million as described in its Reserve Policy.
- In 2016-17, SVCW Commission approved **Emergency Capital expenditures** to address the failure of Uninterruptible Power Supply (UPS) units that provide backup power to the technology network. When complete, approximately \$1.1 million will be spent to replace damaged technology equipment, install new UPS units, and modify air conditioning systems by



relocating air intake and adding scrubber capacity. Since the Commission instructed that funds be drawn from the CIP reserve for this project, the 2017-18 Budget recommends replenishment contributions equal to that amount.

Based upon the above, total 2017-18 Reserve Designations are proposed as follows:

Reserve Designations - 2017-18 Budget				
Description	Estimated June 30, 2017 Balance	Target June 30, 2017 Balance	Proposed 2017-18 Contributions	
Operating Reserve	\$ 3,491,891	\$ 3,391,293	(100,597)	
CIP Reserve	16,093,292	17,093,292	1,000,000	
Emergency Capital Spend:	(1,130,895)	-	1,130,895	
TOTAL	\$ 18,454,287	\$ 20,484,585	\$ 2,030,298	

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