COMMISSION OF SILICON VALLEY CLEAN WATER JOINT POWERS AUTHORITY SPECIAL MEETING – Thursday, January 12, 2017 8:00 a.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 – MEMBER COUNCIL MEMBER 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.

<u>AGENDA</u>

- 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

D. Engineering Projects Status Update

November 30, 2016 December 2016

- 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 RESOLUTION AWARDING CONTRACT DOCUMENTS AND AUTHORIZING PURCHASE OF VALVES AND EXPANSION JOINTS FOR THE PUMP STATION VALVE REPLACEMENT PROJECT – CAPITAL PROJECTS #262 AND #263

Proposed Action: Move adoption of RESOLUTION APPROVING CONTRACT DOCUMENTS AND PURCHASE OF VALVES AND EXPANSION JOINTS FOR THE PUMP STATION VALVE REPLACEMENT PROJECT (CAPITAL PROJECTS #262 AND #263), DECLARING AND ACCEPTING BID OF LOWEST RESPONSIBLE BIDDER FOR SAID MATERIALS, REJECTING ALL OTHER BIDS, AUTHORIZING AND DIRECTING EXECUTION OF CONTRACT FOR PURCHASE OF SAID MATERIALS AND DIRECTING RETURN OF BID SECURITY UPON EXECUTION OF CONTRACT BY LOWEST RESPONSIBLE BIDDER – (\$391,993.63) – All West Equipment, dba Frank Olsen Company

B. CONSIDERATION OF MOTIONS APPROVING TASK ORDER AMENDMENTS FOR THE CONVEYANCE SYSTEM PROGRAM

Proposed Actions:

i. Move approval of AMENDMENT 1 TO TASK ORDER 2016-11 SCOPE AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE GRAVITY PIPELINE PROJECT (CIP #6008 AND 6004) IN AN AMOUNT NOT TO EXCEED \$314,092 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – KENNEDY/JENKS

- ii. Move approval of AMENDMENT 1 TO TASK ORDER 2016-11 SCOPE AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE RECEIVING LIFT STATION, HEADWORKS, AND INFLUENT CONNECTOR PIPELINE PROJECTS (CIP #6013, 6014, and 9160) IN AN AMOUNT NOT TO EXCEED \$451,435 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – BROWN AND CALDWELL
- C. CONSIDERATION OF MOTION TO RECEIVE AND ACCEPT SILICON VALLEY CLEAN WATER'S LONG RANGE FINANCIAL PLAN UPDATE

Proposed Action: Move approval of RECEIPT AND ACCEPTANCE OF SILICON VALLEY CLEAN WATER LONG RANGE FINANCIAL PLAN 2017 UPDATE

9. CLOSED SESSION

A. <u>CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION</u> 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. <u>CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION</u>

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

- 10. RECONVENE IN OPEN SESSION Announce action taken in Closed Session, if any.
- 11. ADJOURN

NOTICE TO PUBLIC

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

- 7. A. APPROVAL OF MINUTES December 8, 2016
 - B. APPROVAL OF CLAIMS AND CHECKS DATED NOVEMBER 5, 2016 AND NECESSARY PAYMENTS THROUGH DECEMBER 30, 2016 AS FOLLOWS:
 - 11/4/16 11/18/16 for \$1,291,813.72
 - 11/19/16 12/16/16 for \$1,238,788.20
 - 11/30/16 (Retiree Health) for \$24,078.82
 - 12/17/16 12/30/16 for \$1,956,894.64
 - 12/29/16 (Retiree Health) for \$22,738.47

SAFETY MOMENT

ATMs and ATM Cards

Every year we hear about people who have been robbed or harmed while using an Automated Teller Machine (ATM). While many of these machines are monitored by video surveillance, do not assume that this means you are in a safe environment.

There are things that you can do to increase your safety when you are using an ATM.

- 1. Stay alert and be aware of your surroundings, especially at night. If possible, park in a well-lit area and have someone accompany you.
- 2. Report suspicious people. If you notice anything unusual, cancel your transaction, pocket your card and leave immediately. Go to a safe place and call the police if you suspect dangerous or illegal activity.
- 3. Be prepared. To complete your transaction safely, fill out deposit forms and have your card ready before arriving at the ATM.
- 4. Put your card and cash away immediately after your transaction. Count the cash later.
- 5. When using a drive-up ATM, remember to keep your doors locked, all other windows up and the car running.
- 6. Guard your ATM card as carefully as you do cash, checks and credit cards.
- 7. Keep Your Personal Identification Number (PIN) secret. Memorize your PIN and do not write it on your card or keep the number in your wallet.

Adapted from: http://fitnessanddefense.com/atm-safety/

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SVCW INVESTMENT LISTING

SVCW Investment Listing up to November 30, 2016.

SILICON VALLEY CLEAN WATER

JOINT POWERS AUTHORITY ~ A PUBLIC ENTITY



1400 RADIO ROAD REDWOOD CITY, CALIFORNIA 94065 650.591.7121 | FAX: 650.591.7122 WWW.SVCW.ORG

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

SILICON VALLEY CLEAN WATER INVESTMENT LISTING November 30, 2016

	12000 C							Estimated
Broker/Dealer	Composite		Coupon	Yield to				Annual \$ Yield
Investment Name	Credit	Maturity	Rate	Maturity	Par Value	Market Value	Cost	Earnings
Annual OPS and CAP Budget Reserve	2.5							
CLARK CNTY NEV FOR ISSUES DTD GO BDS	AA	7/1/2017	4.300%	1.32	50,000	50,977	51,407	672
FEDERAL HOME LN MTG CORP PARTN CTF	N.A.	3/1/2018	5.000%	1.18	71,030	71,972	73,583	849
FEDERAL HOME LN MIG CORP PARIN GOLD	N.A.	2/1/2020	5.000%	1.33	80,003	83,537	84,403	1,111
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	1.51	60,000	61,537	62,564	929
FEDERAL HOME LOAN BKS CONS BDS	AA+	2/18/2021	1.375%	1.81	30,000	29,514	30,468	535
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	2/10/2017	2.875%	0.36	50,000	50,252	50,553	183
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	6/8/2017	5.400%	0.93	50,000	51,220	52,256	478
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	1/1//2017	4.875%	0.44	50,000	50,283	51,061	223
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	1/5/2017	4.250%	1.15	50,000	50,196	50,908	579
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/8/2017	3.125%	1.03	85,000	86,902	87,808	893
FEDERAL HOME LOAN BKS CONS BDS	AA+	6/9/2017	1.125%	0.80	100,000	100,169	100,425	797
FEDERAL FARM OR BKS CONS SYSTEMWIDE	AA+	9/1//2018	1.950%	1.21	100,000	101,253	101,916	1,220
FEDERAL FARM OR BRS CONS STSTEMWIDE	AA+	4/9/2018	0.580%	0.67	50,000	49,998	49,959	335
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/9/2016	5.000%	0.91	65,000	65,070	66,402	595
FEDERAL HOME LOAN BKS CONS BDS	AA+	3/9/2018	4.025%	1.11	125,000	130,530	131,704	1,450
FEDERAL HOME LOAN BKS CONS BDS	AA+	7/1/2019	4.3/5%	1.46	50,000	53,579	53,782	/81
FEDERAL HOME LN MTC CORD	AA+	9/13/2019	4.500%	1.46	100,000	108,310	109,819	1,585
FEDERAL HOME LIN MIG CORP	AA+	6/22/2017	1.000%	0.85	50,000	50,073	50,070	428
FEDERAL NATL MTG ASSN	AAt	6/22/2020	1.500%	1.01	30,000	29,911	30,501	482
FEDERAL NATL MTG ASSN	AAT	11/30/2020	1.500%	1.09	30,000	29,782	30,355	502
FEDERAL NATL MTG ASSN	AAt	2/20/2021	1.375%	1.00	30,000	29,495	30,362	532
FEDERAL NATL MTG ASSN	AAT	0/25/2010	1.025%	1.10	150,000	60,544	60,913	715
EEDERAL NATL MTC ASSN GTD REMIC	IN R	9/25/2019	2.171%	1.01	100,000	151,178	101,969	2,733
EEDERAL NATE WIG ASSN	ND	9/25/2020	1.750%	1.69	120,000	120 726	100,935	1,001
FEDERAL HOME LN MTG CORP MULTICLASS	NR	F/120/2019	1.009%	1.64	130,000	130,730	129,017	2,139
FEDERAL HOME LN MTG CORP	AA+	5/12/2017	1.250%	1.21	95,000	95,249	95,305	5/9
FEDERAL HOME LN MTG CORP	AA+	10/2019	1.750%	1.31	30,000	30,307	30,030	390
EEDERAL HOME LN MTG CORP	NI A	10/2/2019	1.250%	1.44	47 422	49.562	49 946	430
EEDERAL HOME LIN WITG CORP MULTICLASS	N.A.	4/15/2020	5.500%	1.75	62 520	40,003	40,040	1 055
EEDERAL NATE MTG ASSN GTD PASSTIRU	N.A.	3/1/2019	5.500%	1.02	46 503	47 485	48 282	1,055
EEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	4/1/2020	5.000%	1.30	35 084	36 550	37.035	472
CNMA IL PASSTHELL CTE POOL #003421	N A	8/20/2018	4 500%	1.46	27 256	27 669	28 555	404
GENERAL ELEC CAR CORR MTN	A+	8/7/2018	1 151%	1 19	75,000	75 203	74 771	896
GEORGIA MUN ELEC AUTH PW/R REV SUB	A+	1/1/2017	3 202%	1.06	25,000	25 043	25 233	266
IOWA FIN ALITH REVIST REVIOLVING ED	AAA	8/1/2018	3 280%	1.41	50,000	51 702	51 700	731
MCDONALDS CORP MED TERM NT ER	BBB+	10/15/2017	5 800%	1 44	25,000	25 927	26 162	372
NORTH ST PALIL MARLEWOOD MINN LGO	44	2/1/2018	5.000%	1 33	50,000	52 121	52 372	694
OREGON ST GO ENERGY BDS 2006 B AMT	44+	10/1/2017	4 000%	3.68	100,000	100 200	100 000	3 690
SAN LUIS ARIZ PLEDGED EXCISE T REV	NA	7/1/2017	2 000%	1 22	50,000	50 074	50,000	612
SMALL BUSINESS ADMIN GTD LN POOL	NA	2/25/2019	3 325%	1 70	46 410	46 942	48 158	800
TENNESSEE VALLEY AUTH PWR BD 01 D	AA+	12/15/2016	4 875%	0.61	50,000	50.081	51.057	307
US BANCORP MINS BK ENT FR	AA-	11/15/2018	1 950%	1.62	50,000	50,272	50,101	816
LINIVERSITY CALLE REVS FOR PREV GEN	AA	7/1/2019	1.796%	1.93	50,000	50,157	49,568	967
WELLS EARGO & CO NEW SR GLBL NT	A+	12/11/2017	5.625%	1.55	50,000	52.034	52,966	808
WYETH NT	AA-	4/1/2017	5.450%	0.98	50,000	50,716	51,088	495
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	1.42	80,000	79,237	80,000	1,122
MONTGOMERY CNTY MD CTES PARTN COPS	N.A.	11/1/2019	1.200%	1.75	100,000	98,532	100,058	1,721
RICHMOND VA GO PUB IMPT BDS C	AA	7/15/2021	2.599%	2.25	100,000	102,124	105,711	2,302
PORT MORROW ORE TRANSMISSION F REV	AA	9/1/2021	2.737%	2.15	100,000	102,504	105,266	2,204
WACO TEX INDPT SCH DIST REF BDS	N.A.	2/15/2020	4.000%	1.80	110,000	117,383	119,714	2,116
CASH & EQUIVALENTS	-	-	-	0.45		126,666	126,666	570
Annual OPS and CAP Budget Reserve Total						\$ 3,464,203 \$	3,499,529	\$ 48,746
Capital Improvement Program Reserve								
ANACORTES WASH UTIL SYS REV UTIL SYS	A+	12/1/2016	2.935%	-	100,000	100,000	100,960	-
APPLE INC SR FLT NT	AA+	2/7/2020	1.137%	1.17	100,000	99,872	99,821	1,172
BERGEN CNTY N J TAXABLE GO BDS 2008	N.A.	11/1/2019	6.000%	1.23	100,000	109,041	108,630	1,342
BERKSHIRE HATHAWAY FIN CORP GTD SR	AA	5/15/2018	5.400%	1.51	100,000	105,471	105,817	1,596
CALIFORNIA ST GO BDS TAXABLE	AA-	10/1/2019	6.200%	2.17	100,000	111,729	112,015	2,427
CHEVRON CORPORATION SR NT	AA-	3/3/2019	4.950%	1.77	100,000	106,844	107,275	1,895
CISCO SYS INC SR GLBL NT	A+	1/15/2020	4.450%	2.05	125,000	133,965	135,775	2,744
CLARK CNTY NEV FOR ISSUES DTD GO BDS	AA	7/1/2017	4.300%	1.32	25,000	25,489	25,703	336
COLGATE PALMOLIVE CO MTNS FR	AA-	11/1/2018	1.500%	1.39	100,000	100,295	100,322	1,398
COOKEVILLE TENN GO INDUSTRIAL AND	N.A.	6/1/2017	3.000%	1.45	100,000	100,880	101,804	1,461
EXXON MOBIL CORP SR FLT NT	AA+	3/15/2019	1.000%	1.13	100,000	99,896	99,935	1,132
FEDERAL HOME LN MTG CORP PARTN CTF	N.A.	3/1/2018	5.000%	1.18	23,881	24,198	24,740	286
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	2/1/2019	5.000%	1.57	77,547	79,592	81,763	1,250
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	1.51	340,000	348,711	347,521	5,266
FEDERAL HOME LOAN BKS CONS BDS	AA+	2/18/2021	1.375%	1.81	100,000	98,381	101,561	1,782
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	12/1/2017	2.500%	1.23	500,000	507,620	511,620	6,228
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	1/5/2018	4.500%	1.13	500,000	517,755	526,228	5,861
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	9/22/2017	5.000%	0.97	25,000	25,833	20,032	251

SILICON VALLEY GLEAN WATER

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Broker/Dealer_	Composite		Coupon	Yield to				Annual \$ Yield
Investment Name	Credit	Maturity	Rate	Maturity	Par Value	Market Value	Cost	Earnings
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	6/22/2018	5.050%	1.19	20,000	21,176	21,424	252
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	4/6/2020	5.300%	1.70	450,000	503,091	505,310	8,563
FEDERAL FARM OR BKS CONS SYSTEMWIDE	AA+	9/29/2017	4.750%	1.00	500,000	515,915	519,018	5,175
FEDERAL FARM OR BKS CONS STSTEMWIDE	AA+	9/3/2019	5.320%	1.55	50,000	55,200	55,485	857
FEDERAL HOME LOAN BKS CONS BDS	AA+	2/2//2018	4.670%	1.08	450,000	470,003	474,408	5,095
FEDERAL HOME LOAN BKS CONS BDS	AA+	9/8/2017	2.250%	0.83	250,000	252,728	253,238	2,093
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/8/2017	2.875%	1.70	60,000	62,610	63,318	1,061
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/8/2017	2.025%	1.00	500,000	508,540	512,600	5,370
FEDERAL HOME LOAN BKS CONS BDS	AA+	6/9/2017	1 125%	0.80	25,000	25,560	25,826	263
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	6/24/2019	1 520%	1.48	250,000	250 173	30,128	239
FEDERAL HOME LOAN BKS CONS BDS	AA+	8/15/2019	5.125%	1.45	60,000	65 753	66 338	3,690
FEDERAL HOME LOAN BKS CONS BDS	AA+	6/12/2020	4.625%	1.68	200,000	218 722	221 834	3 666
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/9/2016	5.000%	0.91	275,000	275.297	280 904	2 516
FEDERAL HOME LOAN BKS CONS BDS	AA+	6/5/2017	5.250%	0.91	500,000	511,530	522,525	4 665
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/14/2018	3.750%	1.25	250,000	262,490	265,050	3,281
FEDERAL HOME LOAN BKS CONS BDS	AA+	7/1/2019	4.375%	1.46	25,000	26,789	26,891	391
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	4.125%	1.53	125,000	134,453	138,111	2,063
FEDERAL HOME LOAN BKS CONS BDS	AA+	3/13/2020	4.125%	1.56	700,000	756,861	758,907	11,807
FEDERAL NATL MTG ASSN	AA+	1/21/2020	1.625%	1.49	100,000	100,422	102,335	1,498
FEDERAL NATI MTG ASSN	AA+	6/22/2020	1.500%	1.61	50,000	49,852	50,836	804
FEDERAL NATL MTG ASSN	AA+	11/15/2016	1.500%	1.69	50,000	49,636	50,592	836
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1 375%	1.70	325,000	326,742	334,120	5,744
FEDERAL NATL MTG ASSN	AA+	2/26/2021	1.625%	1.18	150,000	151 350	152 282	1,772
FEDERAL HOME LN MTG CORP MULTICLASS	NR	11/27/2018	3 531%	1.84	100,000	105 421	102,202	1,788
FEDERAL HOME LN MTG CORP	AA+	6/25/2020	4.875%	1.10	115 000	121 611	123 694	1 333
FEDERAL HOME LN MTG CORP	AA+	6/13/2018	3.750%	1.28	500.000	528,575	528 243	6 745
FEDERAL HOME LN MTG CORP	AA+	3/27/2019	1.750%	1.31	50,000	50,512	51.051	660
FEDERAL HOME LN MTG CORP	AA+	5/30/2019	1.250%	1.44	50,000	49,735	50,386	717
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	10/2/2019	3.840%	2.15	250,000	256,048	266,641	5,505
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	5/1/2018	2.680%	1.81	476,913	487,696	496,735	8,827
FEDERAL NATL NTG ASSN GTD PASSTHRU	N.A.	4/1/2019	1.940%	1.77	469,202	471,473	473,601	8,345
FEDERAL NATE MTG ASSN GTD PASSTHRU	N.A.	7/1/2019	5.000%	1.57	94,206	96,956	99,299	1,522
INTERNATIONAL BUSINESS MACHS SP CLD	N.A.	4/1/2019	4.890%	2.16	292,463	312,754	324,451	6,755
IOWA FIN ALITH REV ST REVOLVING ED	AA-	10/17/2019	1.071%	1.02	100,000	100,116	99,977	1,018
MICROSOFT CORP NT	000	2/6/2019	3.280%	1.41	25,000	25,851	25,850	366
MONONA WIS TAXABLE PROM NTS 2015B	NA	8/1/2018	3 250%	2.42	100,000	100,485	106,908	1,644
NEW YORK N Y GOBDS 2011 C TAXABLE	AA	6/1/2019	3 480%	1 41	100,000	103 565	103,033	2,407
OHIO ST GO BDS 2009 C TAXABLE	AA+	6/1/2020	4.371%	1.56	100,000	104 172	104 247	1,430
ORACLE CORP SR FLT NT	A+	10/1/2018	1.068%	0.97	25,000	25.032	25 042	244
OREGON ST GO ENERGY BDS 2006 B AMT	AA+	3/1/2018	4.000%	3.68	25,000	25.050	25.000	923
PASADENA CALIF PUB FING AUTH L LEASE	AA	7/7/2017	4.224%	1.45	25,000	25,764	25,739	372
TENNESSEE VALLEY AUTH GLBL PWR 07A	AA+	10/1/2017	5.500%	0.81	50,000	51,472	52,277	414
TENNESSEE VALLEY AUTH PWR BD 2008 B	AA+	3/1/2018	4.500%	1.17	500,000	522,065	524,868	6,119
WAL MART STORES INC SR GLBL NT	AA	11/1/2016	5.375%	1.03	100,000	101,494	102,239	1,046
WELLS FARGO & CO NEW SR GLBL NT	A+	2/15/2019	5.625%	1.55	25,000	26,017	26,483	404
MONTCOMERY CNTY ND CTES BARTH CODS	AA+	//18/2017	1.010%	1.42	100,000	99,046	100,000	1,402
RICHMOND VA GO PUB IMPT BDS C	N.A.	4/1/2018	1.200%	1.75	100,000	98,532	100,058	1,721
BANK NEW YORK MIN BK ENT ER	A+	4/5/2017	2.599%	2.25	100,000	102,124	105,711	2,302
FEDERAL NATL MTG ASSN GTD PASSTHRU	NA	10/26/2018	2.450%	2.30	110,000	100,346	103,394	2,370
GILEAD SCIENCES INC SR NT	A-	11/1/2019	2 550%	2.15	100,000	100 700	104 247	2,001
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	7/15/2021	1.616%	2.35	100,000	96 665	100 150	2,000
PORT MORROW ORE TRANSMISSION F REV	AA	11/27/2020	2.737%	2.15	225,000	230,634	236,849	4,959
WACO TEX INDPT SCH DIST REF BDS	N.A.	11/1/2020	4.000%	1.80	165,000	176,075	179,571	3,175
FEDERAL NATL MTG ASSN	AA+	9/1/2020	1.800%	1.86	260,000	258,344	260,000	4,792
CASH & EQUIVALENTS	-		-	0.45	-	1,311,865	680,342	5,903
Capital Improvement Program Reserve Total						\$ 14,918,669 \$	14,443,303	\$ 205,217
Stage 2 Capacity Reserve	222							
BERKSHIRE HATHAWAY FIN CORP GTD SR	AA	5/15/2018	5.400%	1.51	100,000	105,471	105,806	1,596
CEDAR PARK TEX CITS OBLIG TAXABLE	AA	8/15/2018	5.280%	1.45	50,000	53,184	53,276	770
CLARK CNTY NEV FOR ISSUES DTD CO PDS	A+	7/1/2020	4.450%	2.05	75,000	80,379	81,465	1,646
CONOCOPHILLIPS NT	BBB+	11/7/2016	4.300%	1.32	50,000	52 311	102,813	1,345
COOKEVILLE TENN GO INDUSTRIAL AND	NA	5/15/2018	3 000%	1.60	100,000	100.880	101 804	1 461
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	6/1/2017	5.000%	1.57	77.547	79 592	81 763	1 250
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	2/1/2019	4.500%	1.62	70,403	72.325	73.395	1.172
FEDERAL HOME LOAN BKS CONS BDS	AA+	11/1/2020	2.375%	1.51	100,000	102,562	104,274	1,549
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	1.375%	1.81	100,000	98,381	101,561	1,782
FEDERAL HOME LOAN BKS CONS BDS	NR	2/18/2021	0.875%	1.07	100,000	99,692	100,140	1,062
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	6/29/2018	2.875%	0.36	100,000	100,504	101,105	366
FEDERAL FARM OR BKS CONS SYSTEMWIDE	AA+	2/10/2017	4.500%	1.15	100,000	104,910	104,616	1,201
FEDERAL FARM OR BAS CONS SYSTEMWIDE	AA+	5/15/2018	4.750%	1.00	250,000	257,958	259,365	2,587
FEDERAL HOME LOAN BKS CONS STOLEMWIDE	AA+	9/29/2017	4.780%	0.92	55,000	26,535	252 220	732
FEDERAL HOME LOAN BKS CONS BDS	AA+	9/8/2017	2.250%	1 70	60,000	62 610	63 318	2,093
		0.0.1.011			00,000	52,010	00,010	1,001

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											Estimated
Broker/Dealer	Composite		Coupon	Yield to						An	nual \$ Yield
EEDERAL HOME LOAN BKS CONS PDS	Credit	Maturity	Rate	Maturity	Par Value	a (Market Value		Cost		Earnings
FEDERAL HOME LOAN BKS CONS BDS	AA+	9/11/2020	3.125%	1.03	100,000		102,238		103,304		1,051
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	6/9/2017	1.520%	1.48	200,000		200 138		100,425		797
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	6/24/2019	0.580%	0.67	50,000		49 998		200,000		2,952
FEDERAL HOME LOAN BKS CONS BDS	AA+	4/9/2018	5.125%	1.45	50,000		54,795		55 282		795
FEDERAL HOME LOAN BKS CONS BDS	AA+	8/15/2019	5.000%	0.91	200,000		200,216		204,294		1 830
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/9/2016	4.625%	1.11	75,000		78,318		79,022		870
FEDERAL HOME LOAN BKS CONS BDS	AA+	3/9/2018	4.375%	1.46	100,000		107,157		107,563		1,562
FEDERAL HOME LUAN BKS CONS BDS	AA+	7/1/2019	4.125%	1.56	125,000		135,154		135,376		2,108
FEDERAL NATI MTG ASSN	AA+	3/13/2020	1.000%	0.85	100,000		100,145		100,140		855
FEDERAL NATL MTG ASSN	AA+	1/21/2020	1.625%	1.49	100,000		100,422		102,335		1,498
FEDERAL NATL MTG ASSN	AA+	6/22/2020	1.500%	1.01	100,000		99,703		101,671		1,608
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.875%	1.05	175,000		175 029		101,183		1,673
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.375%	1.80	100,000		98 317		101 208		3,093
FEDERAL NATL MTG ASSN	AA+	2/26/2021	3.275%	1.32	100,000		104 213		104 239		1,772
FEDERAL HOME LN MTG CORP MULTICLASS	NR	1/14/2019	2.788%	1.67	78,484		79,924		80 446		1,336
FEDERAL HOME LN MTG CORP	AA+	10/25/2020	3.750%	1.28	250,000		264,288		264.046		3.372
FEDERAL HOME LN MTG CORP	AA+	3/27/2019	1.250%	0.61	55,000		55,144		55,177		335
FEDERAL HOME LN MTG CORP	AA+	5/12/2017	1.750%	1.31	100,000		101,024		102,101		1,319
FEDERAL HOME IN MTG CORP	AA+	5/30/2019	1.250%	1.39	100,000		99,582		101,316		1,384
FEDERAL HOME LININTG CORP	AA+	8/1/2019	1.250%	1.44	100,000		99,470		100,772		1,434
FEDERAL NATI MTG ASSN GTD PASSTUPU	AA+	10/2/2019	0.750%	1.02	100,000		99,602		99,836		1,015
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	4/9/2018	3.840%	2.15	200,000		204,838		213,313		4,404
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/1/2010	4.000%	1.35	110,754		113,877		116,049		1,537
GARNER N C GO PUB IMPT BDS TAXABLE	AA	7/1/2019	3.050%	1.34	50,000		261,589		2/1,3/3		5,650
GENERAL ELEC CAP CORP MTN	A+	2/1/2018	1.151%	1 19	100,000		100 271		51,183		1 104
IOWA FIN AUTH REV ST REVOLVING FD	AAA	8/7/2018	3.280%	1.41	100,000		103 403		103 399		1,154
JPMORGAN CHASE & CO SR NT	- A-	8/1/2018	2.550%	2.63	50,000		49,870		51,202		1.311
LANCASTER CNTY NEB SCH DIST NO SCH	AA	3/1/2021	4.550%	2.69	50,000		54,001		55,903		1,452
MCDONALDS CORP MED TERM NT FR	BBB+	1/15/2021	5.800%	1.44	50,000		51,853		52,324		744
NORFOLK VA GO CAP IMPT BDS 2010 B	AA	10/15/2017	4.650%	2.36	100,000		107,083		106,524		2,524
NORTH ST PAUL MAPLEWOOD MINN I GO	AA	3/1/2019	5.000%	1.33	100,000		104,242		104,743		1,389
SAN LUIS ARIZ RI EDGED EVOISE T REV	AA+	2/1/2018	4.000%	3.68	100,000		100,200		100,000		3,690
TENNESSEE VALLEY AUTH PWR BD 01 D	N.A.	10/1/2017	2.000%	1.22	100,000		100,147		100,000		1,225
TENNESSEE VALLEY AUTH PWR BD 2008 B	AA+	7/1/2016	4.875%	0.61	100,000		100,161		102,113		615
U S BANCORP MTNS BK ENT FR	AA-	10/1/2016	1 950%	1.17	200,000		208,826		209,766		2,447
UNIVERSITY CALIF REVS FOR PREV GEN	AA	12/15/2016	1 796%	1.02	50,000		50 157		100,201		1,633
WELLS FARGO & CO NEW SR GLBL NT	A+	4/1/2018	5.625%	1.55	100,000		104 067		105 932		1615
WYETH NT	AA-	11/15/2018	5.450%	0.98	50,000		50,716		51 088		495
XTO ENERGY INC SR NT	AA+	7/1/2019	5.500%	1.56	100,000		105,884		108,128		1.650
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	12/11/2017	1.010%	1.42	200,000		198,092		200,000		2,805
MONIGOMERY CNTY MD CTFS PARTN COPS	N.A.	4/1/2017	1.200%	1.75	100,000		98,532		100,058		1,721
CILEAD SCIENCES INC SD NT	A+	6/15/2018	2.450%	2.36	150,000		150,519		155,091		3,555
WISCONSIN ST GEN ED ANNUAL ADD DEV	A-	10/26/2018	2.550%	2.31	150,000		151,050		156,371		3,495
FEDERAL HOME IN MTG CORP	AA-	11/1/2019	1.616%	2.35	100,000		96,665		100,150		2,267
METRO WASTEWTR RECLAMATION DIS REV	AA+	9/1/2020	1.250%	1.89	90,000		88,238		90,000		1,665
WACO TEX INDPT SCH DIST REF BDS	NA	5/1/2021	4.000%	1.80	55,000		58 602		108,949		1,824
FEDERAL HOME LN MTG CORP	AA+	8/25/2021	1.500%	1.81	60,000		58 155		60,000		1,058
FEDERAL HOME LN MTG CORP	AA+	4/1/2019	1.050%	2.33	100.000		98.062		99,900		2 280
FEDERAL NATL MTG ASSN	AA+	2/15/2020	1.250%	1.56	60,000		59,625		59,985		930
FEDERAL NATL MTG ASSN	AA+	3/30/2021	1.800%	1.86	60,000		59,618		60,000		1,106
CASH & EQUIVALENTS	-	-	-	0.45			154,527	_	154,527		695
Stage 2 Capacity Reserve Total						\$	7,891,008	\$	7,986,198	\$	118,122
Subtotal, Bank of the West						\$	26,273,880	\$	25,929,030	\$	372,085
California Local Agency Investment Fund		LAIF	0.678%			\$	2,566,747	\$	2,566,747		17,403
TOTAL UNRESTRICTED INVESTMENTS						\$	28,840,627	\$	28,495,776	\$	389,487

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Broker/Dealer	.		-					Estimated
Investment Name	Composite		Coupon	Yield to				Annual \$ Yield
	Credit	maturity	Rate	Maturity	Par Value	Market Value	Cost	Earnings
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%	-		4,321	4.321	
2009 Reserve Account - Federal National Mortgage Assn 313G3Q73	Aaa	7/26/2019	1.150%	1.17		4,716,904	4,780,000	55 188
2009 Reserve Account - BMW BK North Amer Salt Lake 05580ACK3		7/24/2019	2.000%	1.97		152.205	150,000	2 998
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS		-	0.000%	-		104.662	104.662	2,000
2009 Revenue Account - Morgan Stanley Treas Sec X9USDMORS		-	0.000%	-		288	288	-
2014 Revenue Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	-		426	426	
2014 Interest Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	-		13	13	12
2014 Principal Account - Goldman Sachs Fin Sg Instl X9USDGLD4			0.000%	2		7	7	
2014 Project Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	-		3.257	3 257	
2014 COI Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	-		5.136	5 136	
2015 Project Account - LAIF		-	0.678%	0.678		8 868 625	8 868 625	60 129
2015 Project Account - JP Morgan Prime MMKT Inst		-	0.000%			923	923	00,120
2015 Revenue Account - JP Morgan Prime MMKT Inst		-	0.000%	-		163	163	
2008 Escrow Account - United States Treasury Notes 912828MK3	Aaa	1/31/2017	3.125%	3.11		84 384	86 678	2 624
2008 Escrow Account - United States Treasury Notes 912828NR7	Aaa	7/31/2017	2.375%	2.35		7 570 443	7 715 749	177 905
2008 Escrow Account - Cash			0.000%	-		850	850	111,505
2009 Escrow - United States Treasury 912828SC5	Aaa	1/31/2017	0.875%	0.87		595 506	597 836	5 191
2009 Escrow - United States Treasury 912828XP0	Aaa	7/31/2017	0.625%	0.63		596 558	596 728	3,758
2009 Escrow - United States Treasury 912828UJ7	Aaa	1/31/2018	0.875%	0.88		598 437	599 629	5 266
2009 Escrow - Resolution Funding Corp Interest Strip 76116EFS4	Aaa	7/15/2018	0.000%	-		331 848	329 183	5,200
2009 Escrow - United States Treasury 912828VQ0	Aaa	7/31/2018	1.375%	1 37		264 326	265 079	2 6 2 1
2009 Escrow - United States Treasury 912828B33	Aaa	1/31/2019	1.500%	1.49		607 311	610 340	0.040
2009 Escrow - Tunisia Government Aid Bonds 066716AG6	Aaa	7/16/2019	1.686%	1.69		40 372 404	40 044 602	5,049
2009 Escrow - Cash	, icita	-	0.000%	1.00		1 40,572,404	40,944,092	002,294
Subtotal, Bank of New York (Trustee)			0.00070		-	\$ 64 990 505	CE CE CE 7 000	£ 1000.01E
Less Amounts held in Escrow for 2008 and 2009 Bond Defease	ance					\$ (51 023 561)	\$ (51,740,466)	\$ 1,008,015
Net Total, Bank of New York (Trustee)					23 <u>-</u>	\$ (31,023,301) \$ 12,950,042	3 (51,745,100)	5 (889,699)
						\$ 13,050,943	\$ 13,917,834	\$ 118,315
Uninvested Operating Cash						275,570	275,570	
TOTAL CASH & INVESTMENTS, UNRESTRICTED AND WITH TRUSTE	E				-	\$ 42,973,140	\$ 42,689,181	1,397,502
					Weighte	ed Average Yiel	d to Maturity %	1.48%

Summary by Investment Type:		Market Value
US Treasuries	S	104,950
Agencies		22,228,030
Commercial Paper / Corporate Bonds		2.762.766
Municipal Bonds / Notes		4,559,136
Money Market / Certificates of Deposit		1,882,888
Local Agency Investment Fund		11 435 372
TOTAL	\$	42,973,140
Summary by Purpose / Restriction Level	- 14 J	Market Value
Working Capital	\$	2,842,317
Operations & Capital Budget Reserve		3,464,203
Capital Improvement Program Reserve		14,918,669
Stage 2 Capacity Reserve		7.891.008
Debt Service Payments Received		4,488
Debt Reserve		4,982,620
Debt Proceeds		8,869,835
TOTAL	\$	42,973,140
Summary by Liquidity:		Market Value
0-1 years	\$	17,902,279
1-2 years		7,493,966
2-3 years		9,365,982
3-5 years		8,210,913
TOTAL	S	42 973 140

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.

ENGINEERING REPORT: NOVEMBER 2016 CAPITAL IMPROVEMENT PROGRAM IMPLEMENTATION

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

The project team has performed detailed in-depth analysis of alternative alignments for the entire conveyance system. After developing and evaluating many alternatives, and receiving consent from the Commission on pursuing 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.

Planned Commission Actions: Meeting to Certify EIR – April 2017

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

In January 2016, the Commission approved a policy outlining requirements and procedures for using the Design-Build method for project delivery (previously, the only type of project delivery method available to SVCW was Design-Bid-Build). 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 will be presented at the January 2017 meeting for approval of Owner's Advisor services to prepare Requests for Qualifications (RFQs) and Requests for Proposals (RFPs) for Progressive Design-Build delivery of some of the Conveyance System Projects.

Planned Commission Actions: Approval to Prepare RFQs and RFPs– January 2017

<u>Menlo Park Pump Station and Redwood City Pump Station Valve Replacement</u> <u>Project (Capital Project 262 and 263):</u> 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, SVCW will procure and install the valves as two separate contracts. The procurement of the valves will be presented for acceptance at the January Commission Meeting and the installation contract approval at the April or May Commission Meeting.

Planned Commission Actions: Accept Valve Procurement– January 2017 Award Installation Contract – April/May 2017

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

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 may 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 – March 2017

<u>Solids Process Automation (8007, 8018, 8021)</u>: In support of automating the entire treatment process, this project works to automate the primary sedimentation, solids thickening, and digestion processes.

The Solids Process Automation project has been in construction since 2013, with Monterey Mechanical doing the construction. It is a very large and complex project and involves modifying and installing new mechanical, electrical, structural, and controls equipment. This project was funded via SRF funds along with two other projects that have already been completed. It is anticipated that the project will complete in late January/early February and will be brought to the Commission for acceptance.

Planned Commission Actions: Accept Project – March 2017

<u>Effluent Pipeline Replacement Project (6012)</u>: Replace the entire 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.

Planned Commission Actions: Accept Project – March 2017

SVCW Capital Improvement Program Actual Expenditure vs. Plan Through November 30, 2016

Project Phase	Project Count	2015 CIP Update	A	ctual Spent thru November 2016	\$ Unspent/ Remaining	% Unspent/ Remaining
Completed	103	\$ 139,194,565	\$	137,300,586	\$ 1,893,979	1.4%
In Construction	29	75,302,833		58,234,669	17,068,164	22.7%
Planning & Design	35	445,846,375		24,842,594	421,003,780	94.4%
Other	33	131,830,290		4,758,646	127,071,645	96.4%
TOTAL	200	\$ 792,174,063	\$	225,136,496	\$ 567,037,568	71.6%

							14-Nov-16
Project	Project			2008 CIP (Original,	2013 CIP Update	2015 CIP Update	Actual Spent thru
Phase	No.	Project Name	Project Description/Status	2007 \$s)	(2010 \$s)	(2015 \$s)	November 2016
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	\$ 2,539,400	\$ 43,060,000	\$ 40,000,000	\$ 41,204,050
Complete	6002	Conveyance System Master Plan	deleted in the CIP Update. Planning for replacement and/or repail of force main and all five	1,250,000	2,386,483	2,374,494	0
Complete	7010	Pump Stations Preliminary Design	Prepare preliminary design (up to 30% design) for all pump station	-	3,000,000	3,128,769	3,067,410
Complete	7013	Pump Stations Secondary	Provide secondary communications for remote monitoring and	-	-	51,900	33,289
Complete	8001	Central Data Acquisition Unit PLC	Central Data Acquisition Unit PLC System Upgrade; Replacement	127,700	32,592	32,592	25,220
Complete	8002	Auto-reset of Effluent Pumps	Remote reset of effluent numps after a nower 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	Combine automation projects for processes related to Activated Sludge; this project is complete. Automates the activated sludge	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	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	Automatic controls tied into SCADA system for monitoring grease	47,600	19,019	-	-
Complete	8027	Measurement Drying Bed Feed Flow Measurement	Install a new magnetic flow meter for measuring the amount of	54,100	6,232	6,232	0
Complete	8037	Automation System Integration -	sludge discharged to drying beds. Pulls out global automation programming tasks being completed by RRV into SPE or Rond 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 hudget	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 buildng 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
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

							14-Nov-16
_				2008 CIP	2013 CIP	2015 CIP	Actual Spent
Project	Project	Ducient Nouse	During the Description (Chatus	(Original,	Update (2010 cs)	Update	thru November 2010
Complete	NO.	Project Name	Combined with Bilgo Dit and Dumping project (221)	2007 \$5)	(2010 \$S)	(2015 \$5)	November 2016
Complete	9038	Moyno Progressive Cavity Pump	Replace all Moyno pumps throughout the plant; replacement parts	814,600	- 541,152	- 559,131	-
		Replacement	no longer available.				
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	788,200	3,000,000	3,072,075	3,072,075
Complete	9099	Solids Handling Building HVAC Air	Implement odor and corrossion 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 the start 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	1,115,400	71,602	71,602	71,602
Complete	9106	Laboratory Information	Plan and proceed with implementation of LIMS for laboratory data	490,100	156,939	116,083	152,667
Complete	9114	Historian Software	Software purchase and installation to facilitate historical tracking of	34,100	2,366	2,366	-
			SCADA data.				
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	Phase 1 of overall Plant resurfacing project; repairs or expansion of paved areas in anticipation of upcoming construction activities.	182,200	448,890	503,138	503,138
Complete	0454	Commenting Facility Devilopment	Project complete. Transfer funds from 9131 to cover overage.	7 227 000	40.005.000	12 500 000	47 555 240
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	Administation and Plant Control	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	Replace the roof on SHB; leaks occurring.	226,200	70,203	70,203	70,203
Complete	9163	Replacement Demolition of Abandoned Equipment			1,469,383	1,557,091	0
		in Solids Handling Building	for over 25 years.				
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	-	389,000	575,000	633,142
Complete	9180	Maintenance Shop Reconfiguration	Reconfigure maintenance spaces that have been displaced by other	-	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	-	858,000	4,844,000	4,217,215
Complete	9193	T1 and T2 Replacement	approximately 25/75 split. Replace Transformers T1 and T2. Do work as CCO to 9801 - 9804	-	1,029,600	-	-
Complete	9194	T3 Replacement	(Power Reliability). Transfer project budget. Replace Transformer T3. Do work as CCO to 9801 - 9804 (Power	-	514,800	-	-
			Reliability). Transfer project budget.				
Complete	9195	Wetside Power	Installs new PDP-2 and replaces old transformers, 11, 12, and 13. Adds new T4. Do work as CCO to 9801 - 9804 (Power Reliability).	-	1,716,000	111,831	-
Complete	9198	Hot Water Piping Improvements -	Provide pumps and piping to allow the hot water loop to serve the	-	171,600	31,738	
Complete	9199	Hot Water Piping Improvements -	Add primary and secondary pumping to connect new cogeneration	-	669,200	1,542	-
		Phase II	engines to the Plant hot water loop. Do work as CCO to 9154, Cogen, Transfer project budget			,	
Complete	9202	DMF Valve Replacement	Replace old valves in the DMF gallery. Valves are high in the air	-	915,749	962,654	997,139
Complete	9205	1406 Radio Road Property	Provide for general improvements at the newly purchased property	-	1,135,000	234,666	234,666
Complete	9207	Maintenance Building Roof	Replaces the roof atop the maintenance building, including		18,749	18,949	-
		Replacement	drainage improvements at the electrical room				
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	-	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	312,088
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	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not	-	179,025	179,025	179,025
		System (FEP) Upgrade	up to latest Automation Standards and best practices dicate				
			decoupling controls from other distinct process systems for				
1			reliabiltiy. 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				
L	l	<u>i</u>	itunas aeletea from this project.	l		l	

							14-Nov-16
				2008 CIP	2013 CIP	2015 CIP	Actual Spent
Project	Project			(Original,	Update	Update	thru
Phase	No.	Project Name	Project Description/Status	2007 \$s)	(2010 \$s)	(2015 \$s)	November 2016
Complete	8033	Dechlorination Control System	Combine w/CIP #8017: Existing PLC-5 equipment is aging and not	-	179.026	179.026	179.026
		Ungrade	up to latest Automation Standards and best practices dicate				
			decoupling controls from other distinct process systems for				
			reliability. Move new Dechlor Control Panel and the SCADA View				
			above fleed line to the newly provided platform at BAS/MAS				
			above nood line to the newly provided platform at KAS/ 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.				
Complete	8034	Tertiary Filter Feed Pump Control	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not	-	224,130	224,130	224,130
		System Upgrade	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 decounter existing scheme and enhance				
			programming needed to decouple existing scheme and emance				
			new controls. Construction completed as a CCO to ASA and CCO				
			funds deleted from this project.				
Complete	8035	Chorination Control System Upgrade	Combine w/CIP #8017; Existing PLC-5 equipment is aging and not	-	185,478	185,479	185,479
			up to latest Automation Standards and best practices dicate				
			decoupling controls from other distinct process systems for				
			reliabiltiy. 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.				
Complete	9007	Industrial Boll-up Doors for		21 700	19 664	19 664	19 664
complete	3007	Marshause	Combine with CIP #9132. Project complete	21,700	15,004	15,004	19,004
Comelate	0077	vvarenouse	Debuild top and further is hand are stated water was ded	FC4 000	246.252	246.262	246.262
complete	9077	Engine Generator #4 Complete	Repullio top end (valve job and associated parts; needed every	561,000	246,213	246,212	246,212
1		Rebuild	20,000 hrs) and lower end (cam shatt, main and rod bearings, rods,				
			pistons and liners and ancillary parts and pieces; needed every				
			40,000 hrs).				
Complete	9098	Shipping and Receiving Trailer	Combine with CIP #9132. Project complete	34,700	-	-	-
Complete	9119	RAS Discharge Line 36" Butterfly	Project Completed w/CIP #8017: Replace existing 36-inch butterfly	143.200	-	-	-
		Valve Replacement	valve with a knife gate valve to resolve ragging problem	,			
Complete	0122	Storage and Burchasing Warehouse	Construct a new warehouse for secure storage of supplies	420 700	004 655	1 001 962	1 001 862
complete	9152	Storage and Purchasing Wateriouse	motorial and any mont. Construct offices for Durchasing	450,700	994,033	1,001,002	1,001,802
			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.				
Complete	9150	Odor & Corrosion Control Program -	Work completed to date satisfactory for moving forward. Provides	-	100,000	75,450	75,450
		General Support	support and funding for general requirements of projects				
			contained within the Odor & Corrosion Control Program.				
Complete	9153	High Pressure Pump Safety Cutout		28,700	11,233	11,233	-
		Switch Replacement	Work completed in-house. Project Complete.			,	
Complete	0161	Digestor #2 Cleaning	Combine w/CIP #9012: Clean Digester #3 to facilitate effective				
complete	9101	Digester #3 Cleaning	combine wyen #5012, clean Digester #5 to racintate encetive		-	-	-
			solids treatment and provide access for Digester #3 Renabilitation				
			and Upgrade project (CIP 9012). Includes purging of Digester #1,				
			screened transfer of contents from Digester #3 to Digester #1, and				
		<u> </u>	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				
			Ungrade Project (CIP 9012)				
Complete	9166	Digestion System Enhancements	Combine w/CIP #8021 and transfer budget Ungrade existing			-	_
compiete	5100	Digestion System Emancements	direction system to allow enhanced operation with three primary				
			digestion system to allow enhanced operation with three primary				
			digesters in service. Enhancements include a third heat exchanger				
1			and replacement of the aging sludge recirculation pumps for all				
		İ	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	-	130,000	-	-
1			protection on the influent and effluent pipes. Delete project from				
			CIP; work done in house.				
Complete	9201	Dimminutor procurement and	Purchase and install 2 dimmunitors for each MPPS and SCPS.	-	334.814	374.323	374.442
		installation	Purchase 1 spare for emergency installation Budget allocated out				
			of 0152				
Complete	0202	Central Chillers Deplesement	Evicting Chillers 1 and 2 are undersized and have reached the end		000 449	1 100 002	1 100 002
complete	9205	Central Chillers Replacement	Existing chillers 1 and 2 are undersized and have reached the end	-	990,440	1,109,005	1,109,005
			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				
1			redundancy and greatly enhancing reliability. Budget allocated out				
1		<u>.</u>	of 9152		1		
Complete	9204	MPPS Concrete Repair	Severe corrosion and spalling concrete have been witnessed at the	-	68,155	68,155	68,155
			Menlo Park Pump Station, compromising the integrity of the				
1			structure and posing a safety hazard to SBSA Litility Workers This				
1	1		project will also remove the chemical storage tanks, mining and				
1			number that are no longer used. Budget allessted sub of 0152				
Complete	0214	Secondary Clasifier ("Water Vie	Poplace the Clinch water line situated on the sector will still		70.000	F0.400	F0 405
complete	9211	Secondary Clariner 6 Water Line	Replace the o-inch water line situated on the eastern wall of the	-	70,000	59,496	59,496
1		Replacement	secondary clarifiers under the Activated Sludge Automation				
L			project. Project pulled from CIP #9152.				
Complete	9213	Area Lighting	Replacement of Plant area lighting to LED lights by in-house staff	-	56,000	55,547	68,415
1		1	and broken out from CIP #9152.		1		

							14-Nov-16
				2008 CIP	2013 CIP	2015 CIP	Actual Spent
Project	Project			(Original,	Update	Update	thru
Phase	No.	Project Name	Project Description/Status	2007 \$s)	(2010 \$s)	(2015 \$s)	November 2016
Complete	9227	Sodium Bisulfite Tank Alarms &	Provide additional level indicating device, alarms for chemical	-	-	-	-
		Controls	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	Replace primary switchgear due to existing one's obsolescence.	-	-	3,152,470	3,188,875
		Replacement	Project includes full enclosure and SCADA connection, cabling to				
			T1&T2. Join CIP #s 9801 through 9804 into a larger Power				
			Reliability Improvements project.				
Complete	9802	Motor Control Center P-1,2,3, &4	Replace all main Motor Control Center Papels P1 through P4 which	-	-	3,130,760	3,160,662
		Replacement	have reached the end of their useful lives. Join CIP #s 9801 through				
			9804 into a larger Power Reliability Improvements project				
Complete	9803	Electrical System Redundancy	Replace Power Distribution Panels PD1 and PD2 due to	-	-	3,134,080	3,163,940
			obsolescence. Includes tie-breakers for flexibility between T1 and				
			T2. Join CIP #s 9801 through 9804 into a larger Power Reliability				
			Improvements project.				
Complete	9805	Cogeneration System Connection to	Work completed under Power Reliability Improvements (9801 to	-	800,000	3,429	-
ļ		Primary Switchgear	9804). Project Complete.				
Complete	9804	Standby Power Upgrade	Install new standby bus for P1 through P5. Including new ATS's and	-	-	3,412,623	3,506,324
			cabling to P-6 and 2 new standby generators rated at 1MW each.				
1			Join CIP #s 9801 through 9804 into a larger Power Reliability				
			Improvements project.				
TOTALS - CO	MPLETED	PROJECTS		\$51.504.236	\$126.514.271	\$139.194.565	\$137.300.586

SVCW Capital Improvement Program CIP Project Status - IN CONSTRUCTION

							14-Nov-16
				2008 CIP	2013 CIP	2015 CIP	
	Project			(Original,	Update	Update	Actual Spent thru
Project Phase	No.	Project Name	Project Description/Status	2007 \$s)	(2010 \$s)	(2015 \$s)	November 2016
Constr	6003	Influent Force Main Emergency	As-needed repairs if leaks in the influent force main occur.	\$ 2,145,000	\$ 3,645,000	\$ 3,801,454	2,744,011
6	604.2	Repair			42 450 420	40,000,000	0.445.200
Constr	6012	Effluent Pipeline and Outfall	Improve reliability of Effluent Pipeline and Outfall, which have	-	12,450,438	10,000,000	9,115,389
Canada	7012	Reliability Improvement	Instorically experienced leaks			200 640	06 171
Constr	7012	T 1 Transition for Drimony	install new PLC processors for existing Pump station controls	-	-	290,640	80,171
		Communications					
Constr	8007	Drimony Sodimentation Control	Install basis DLC and Communication equipment, conduit and	2 245 100	2 800 640	E 455 000	E 90E 612
Constr	8007	Custom	install basic PLC and Communication equipment, conduit and	3,245,100	2,899,640	5,455,000	5,805,612
		System	primary sensing devices for primary sedimentation tanks. Do as				
Constr	0010	Gravity Thickonor Procoss	Install basic BLC and Communication equipment, conduit and	2 105 200	1 205 211	6 255 000	7 100 520
Consti	0010	Automation	primary consing dovices in thickonor area. Part of SPA project	2,103,800	4,205,514	0,233,000	7,100,520
Constr	9021	Automation	Automate director process. Part of SPA project	2 590 600	0 002 006	9 455 000	2 220 002
Consti	0021	Automation	Automate digester process. Fait of SFA project.	2,385,000	8,882,090	9,433,000	7,278,003
Constr	8023	SCADA/Auto Response to Plant	Planning and programming effort to maintain reliability while	1 // 6 700	1 255 286	726 // 0	226 1/10
consti	0025	Alarm Conditions	reducing labor domand. Requires Automation Program and	1,440,700	1,233,200	720,445	220,445
		Alarm Conditions	Communications Ungrade to be completed				
Constr	8025	No. 3 Water Control System	Install basic PLC and Communication equipment, conduit and	111 700	225.000	224 812	44.006
consti	0025	No. 5 Water Control System	nrimary consing dovices for #2 water system	111,700	223,000	224,012	44,000
Constr	8036	Automation System Integration - SRE	Use funding for global automation tasks funded by SRE loan		116 545	131 121	137 / 36
constr	0050	Funded	program	_	410,545	454,424	157,450
Constr	8038	Process Return Flow Meter and	Install flow meters and samplers on small side streams to be able		357 500	372 8/15	114 760
Consti	8038	Complex Installation	to monitor and track these flows. Droject is being installed in	-	557,500	372,043	114,700
		Sampler installation	to monitor and track these nows. Project is being installed in-				
Constr	0014	Process Tanks Concrete and Steel	Poplace coating in REC and RST 18-2 (1st phase) Add EEP Wot Bit to			E 220 250	2 221 155
Consti	5014	Protective Costings Peolocoment	project scope. Do with CID #0127	-	-	3,220,230	3,331,133
Constr	0015	Hypochlorite Dosing System	Project scope. Do with CP #9127.	272 000	1 250 000	017 170	
Constr	9015	Repabilitation Automation	disinfaction & adar control, work dong in house. Current project	572,900	1,550,000	012,120	595,659
		Renabilitation Automation	asiniection & odor control; work done in house. Current project				
Consta	0024	Electrical Conductor Declaroment	Auticle was assignt to realize and and assigned tanks.	4 002 500	2 400 000	2 202 202	200.044
Constr	9034	MCC Boom to Watside / Druside	throughout the Plant	4,903,500	2,400,000	2,703,392	308,844
		loode					
Constr	0067	Downtoring Process Control System	Work being completed under CID #2021_CDA project_Adds pow	109 400			
Constr	9007	Ungrade	SCADA View at existing location, programming for subject. Adds new	106,400	-	-	-
		Opgrade	SCADA view at existing location, programming for culover of new				
Constr	0080	Primary Sedimentation Tanks	Replace or rebuild collector drive system including chains and	1 979 100	1 979 100	4 200 000	1 /1/ 6//
constr	5000	Collector System Benjacement	fights: one tank every 2 years	1,525,100	1,525,100	4,200,000	1,414,044
Constr	9096	Plant Architectural Painting	Plant-wide painting including pumps piping equipment and	1 564 900	1 564 900	1 762 724	388 607
Consti	5050		structures. Dainting necessary to provent correction & for longevity	1,304,900	1,304,900	1,702,724	300,092
			of Diant's assots				
Constr	0110	SCADA Integration with Integrated	Information Management System and SCADA to be tied together	/81.000	2 168 560	2 112 605	2 022 032
constr	5110	Business Management System	for accet management and maintenance scheduling	401,000	2,100,500	2,442,055	2,022,552
Constr	0128	PST 3 & / Protective Costings	Complete with 9080 - PST Collector System Replacement	714 150	714 150	2 800 000	1 107 388
Constr	0131	Plant Service Road Resurfacing Phase	Plant site grading and naving	1 089 000	871 310	2,000,000 025 135	1,107,500
constr	5151	2	i lanc site grading and paving.	1,005,000	021,510	525,155	155,012
Constr	9152	Small Canital Equipment	Ongoing replacement of equipment for maintenance needs	3 714 000	1 954 500	2 201 575	1 204 822
constr	5152	Benlacement	throughout plant	3,7 14,000	1,554,500	2,201,375	1,204,022
Constr	9164	Dewatering and Solids Handling	Recommendations from the Biocolids Master Plan for dewatering		3 807 753	5 565 212	6 372 977
constr	5104	Improvements Phase I	improvements	_	3,057,255	3,303,212	0,372,377
Constr	0177	Implement Security Plan	Implement inhancements outlined in Security Document: conjoin		1 920 000	1 1/13 //27	526 952
constr	51/7	Enhancements	with capital improvements as they are being implemented		1,520,000	1,145,427	520,552
Constr	9188	DME Underdrain Access Hatches	There is no access point to the DME underdrains. This project will	-	105 600	112 826	2 307
constr	5100		provide such access		105,000	112,020	2,507
Constr	9214	Alternate Bisulfite Injection Point	Provide an alternate hisulfite injection point in order to reduce the	-	423 660	441 845	10 519
Consti	521		chance of nermit violation		120,000		10,010
Constr	9222	Dual Media Filters 64 and 68	Construct two new Dual Media Filters and associated valves and		3 452 571	2 000 000	555 008
constr	JEEL		nining Work is being performed as a CCO by ERS		5,452,571	2,000,000	555,000
Constr	9226	DMF Platforms	Construct platforms for access to maintain valves in the DME	-		150.000	-
constr	5220		Gallery. Currently the valves are not accessible. Do work as a CCO			150,000	
			to DME 64 & 6B construction project (CIP #9222)				
Constr	9228	Diesel Pump Ungrade	Relocate and replace diesel numps and generator day tanks	-	-	865 000	483 323
Constr	9231	BioforceTech Drver System	Work with BioforceTech for half-scale biosolids drving Facility	-	-	2 000 000	672 830
50.000	5-51		SVCW to provide suitable site and utilities: Bioforce Tech to			2,000,000	372,030
1			construct and operate. Tinning fee will be established based on this				
1			relationshin				
Constr	9806	Wetside Redundant Power	Addition of two standby power generators to PDP2 switchgear In	-		2 941 000	6 342 451
1		Improvements	order to save monies. PDP2 was constructed to be completely			2,3 .1,000	5,5 .2, .51
			ready for new generators and was originally proposed to allow				
1			existing generators to backfeed through existing primary				
1			transformers T1 and T2. Concerns raised during the Rule 21 process				
			caused this plan to be superceded with standalone generators				
TOTALS - PRO	JECTS IN	CONSTRUCTION		\$ 26,520,850	\$ 57,118,423	\$ 75,302,833	\$ 58,234,669

SVCW Capital Improvement Program CIP Project Status - PLANNING & DESIGN

							14-Nov-16
				2008 CIP	2013 CIP	2015 CIP	
Project	Project			(Original,	Update	Update	Actual Spent thru
Phase	No.	Project Name	Project Description/Status	2007 \$s)	(2010 \$s)	(2015 \$s)	November 2016
Planning	6004	Flow Equalization Facility	Build wet weather and diurnal storage facilities on plant property	\$8,981,300	\$28,600,000	\$17,550,000	581,721
Planning	6006	Conveyance System CEQA	Project Development, CEQA, and Planning for the Conveyance	-	839,000	5,039,000	3,465,333
Planning	6008	Tunnel and Gravity Pipeline	Installation of gravity pipeline using tunneling construction		63 190 000	212 550 000	8 986 861
1 iuning	0000	rumer and Gravity ripenne	methods for conveying wastewater to the plant.		03,190,000	212,550,000	0,500,001
Planning	604.0	Force Main Conveyance System	Provides support and funding for general requirements of projects	-	200,000	208,585	203,078
	6010	Program - General Support	contained within the Conveyance System Program.				,
Planning	6013	Receiving Lift Station	Construct new pump station to lift flow out of the gravity pipeline	-	-	48,750,000	454,271
			and into headworks of the plant.				
Planning	6014	Influent Connector Pipe	Install new pipeline that connects headworks process to current	-	-	8,775,000	414,058
Dianaina	7004	Manla Dark Duma Ctation	plant influent.	F 4F4 200	10 000 000	22.010.000	110 5 65
Planning	7004	Rehabilitation	Convoyance System needs	5,454,200	10,900,000	23,010,000	119,505
Planning	7005	Redwood City Pump Station	Replace Redwood City Pump Station to accommodate Conveyance	23 400 000	25 140 000	29 250 000	2 885 085
	1005	Rehabilitation	System needs	23) 100,000	25,210,000	23,230,000	2,000,000
Planning	7008	Belmont Pump Station Rehabilitation	The existing pump station is at the end of its useful life. This	14,872,000	-	9,750,000	6,262
			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				
Diagoning	7000	Dumo Stations Deservery Conserve	unnecessary, this project will fund necessary maintenance.		400.000	417 100	102 104
Planning	7009	Pump Stations Program - General	Provide general support to the Program Manager and in support of	-	400,000	417,169	162,104
Planning	7011	Belmont Force Main	Construct Pineline between Belmont Pump Station and San Carlos		22 022 000	3 201 824	290 118
1 Mining	,011		Pump Station location.		22,022,000	5,201,024	250,110
Planning	9017	Plant #1 Water System Pipe Repair	Rehabilitate potable water system: replace air gap tank or install	148,400	365,474	456,925	458,760
		and Supply Upgrade	backflow preventer, hydropneumatic tank, and pumps.	.,	,		,
Planning	9033	Future Plant Electrical System Panel	Complete replacement and addition of additional panels and	5,748,600	5,570,322	6,274,485	4,010,534
		Replacement	subpanels				
Planning			Add painted walkway and H20 rated hatch covers for	179,400	179,400	202,079	2,685
	9097	Plant Deck Re-coating	pedestrian/cart access under the Plant Control building. Some				
Diapping	0102	Storm Drain System Improvements	Paper the last existing stormuster nump with a submossible	492 100	492 100	200 207	100 207
Planning	9102	Storm Drain System Improvements	Replace the last existing stormwater pump with a submersible	482,100	482,100	208,287	108,287
			values 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.				
Planning	9103	Landscape Impoundment	Project is slated to provide improvements to the impoundment.	269,100	269,100	303,118	55,239
		Improvements	Work in addition to what was originally intended may be done for				
			future Plant process needs.				
Planning	9105	Document Management System	Phase 2 of the IMMS; use for CIP information management.	1,995,500	1,995,500	2,247,758	326,974
-							
Planning	9107	CCT Concrete and Steel Protective	Recoat walls and Ceiling of CCT	4 807 400	4 901 400	5 521 003	86 256
. iuning	5107	Coating Replacement		1,007,100	1,501,100	0,021,000	00,200
Planning	+		Slip-line the in-slab pipe. The high content of solids in sludge	511.800	311.800	351.216	32.962
	9120	RAS Pump Suction Pipe Replacement	piping wears the pipe out over time; the RAS piping is thin due to	,	,		,
			the continued abrasion of the sludge transported through it.				
Planning		Solids Handling Program - General	Project provides support and funding for general requirements of	-	100,000	141,165	240,574
	9144	Support	projects contained within the Solids Handling Program through the				
			life of the CIP.		75.000		
Planning	9145	Plant Energy System Program -	Provides support and funding for general requirements of projects	-	75,000	84,481	10,418
Diapping	0160	General Support	Contained Within the Plant Energy System Program.		16 422 000	41 520 000	701 072
Fidining	9100	Facility	WWTP Pump station predesign efforts will take headworks needs	-	10,422,000	41,520,000	781,075
		lacinty	into account.				
Planning			Implement the dewatering improvements recommended by the	-	1,123,200	1,400,000	219,271
_		Devictoring and Calida Handling	Biosolids Master Plan, including replacing the existing centrifuge				
	9169	Improvements - Phase II	with a third rotary press. Timing is dependent upon several				
		improvements - mase in	projects currently being considered (Food Waste, Bioforce Tech,				
			future Plant loadings) and when Operations require redundancy.				
Planning			(required and optional) to be designed into the new convoyance	-	200,000	14,579	(0)
			system numn stations. The goal is to have a list of design criteria to				
			give to the pump station design firm to ensure consistency of				
		Security Program for New	security equipment and controls. This project will investigate				
	9175	Conveyance System Pump Stations	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.				

SVCW Capital Improvement Program CIP Project Status - PLANNING & DESIGN

							14-Nov-16
				2008 CIP	2013 CIP	2015 CIP	
Project	Project			(Original,	Update	Update	Actual Spent thru
Phase	No.	Project Name	Project Description/Status	2007 \$s)	(2010 \$s)	(2015 \$s)	November 2016
Planning			Conduct a Site Vulnerability Security Assessment and prepare a	-	250,000	64,621	-
			Security Plan. This is to identify the security needs at the plant				
			based on potential for vandalism and the planned elimination of				
	9176	Plant Vulnerability Assessment and	night time staffing. This plan will incorporate the decisions made in				
		Security Plan	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.				
Planning	9189	DMF Pump and Discharge Piping			858,000	1,730,000	2,236
U		Replacement	Replace motors and drives on DMF Pumps.				,
Planning			Repair of coatings and structural elements in Digester #1. Project	-	2,000,000	2,085,846	32,341
			includes replacement of the two mix nozzles, two wall penetrations				
	9215	Digester #1 Rehabilitation	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.				
Planning	9223	Final Effluent Pump Replacement	Increase the capacity of the final effluent pumps to be able to	-	2,301,714	2,400,511	97,693
			discharge 80 mgd				
Planning	9224	FEP Connection to Chlorine Mix Box	Provide pipeline to conect effluent pumps to the chlorine mix box	-	200,000	208,585	-
			to improve plant hydraulics and chlorine contact time				
Planning			SVCW would begin collaboration with outside stakeholders for long-	-	-	1,000,000	128,379
			term planning of recycled water expansion as a drought proof				
			water supply, explore IPR/DPR treatment requirements etc. Budget				
	0222	Long Term Strategic Recycled Water	is for staff time to attend meetings and begin long-term planning,				
	9232	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				
Design	9168	Thickening Improvements - Phase I	Rehabilitate Thickeners 2 and 3	-	2,808,000	1,400,000	69,680
Design	9186	Replacement of Aeration Blowers	The 2010 FFR preliminary design report evaluated the existing	-	4,290,000	4,583,546	24,916
			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.				
Design	9206	Site Waste Piping and Pump	Replace discharge piping and header and add one new pump due	-	99,528	106,338	9,005
		Replacement	to significant number of leaks in the system.				
Design	9220	Aeration Basin Venturi Removal	Remove a bottleneck to allow peak flow of 80 mgd	-	1,150,857	1,200,255	19,033
Design]	Food Waste: Receiving Station and	Plan, Design and Construct Receiving Station for Accepting Food	-	-	13,840,000	557,822
	9229	Director Improvements	Waste from SBWMA. Project would include new receiving station				
		Digester improvements	and interconnection to Digesters				
TOTALS - PR	OJECTS IN	PLANNING & DESIGN		\$66.849.800	\$197.244.395	\$445.846.375	\$24.842.594

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

			OF Project Status - REMAINING				14-Nov-16
				2008 CIP	2013 CIP	2015 CIP	
Durte et Divers	Project	Due to at No. 20	Project Description (Chatra	(Original,	Update	Update	Actual Spent thru
Project Phase	NO.	Project Name	Project Description/Status	2007 \$s)	(2010 \$s)	(2015 \$s)	November 2016
Hold	5071	Sealing	drain pipes.	250,000	404,032	540,121	125,032
Project On	9113	Evaluation of Plant Underslab Piping	TV or otherwise investigate various piping embedded in concrete	371,800	371,800	418,800	-
Hold			throughout the Plant				
Project On	9192	Drying Beds Northern Expansion	Description/State 2008 CF (Original) 2015 CF (Update Sec0753) 2015 CF (Update Sec0753) rack Sea Jalley floors to prevent infituation of GW. Unplug in stab drain pipes. 371,800 448,832 546,12 rank Sea Jalley floors to prevent infituation of GW. Unplug in stab drain pipes. 371,800 371,800 428,800 planchide for facilities requires for any expension of the pump station of requirements when any 3 acre bed. - 1,656,500 27,33 minimum station of segment and installation of expension instantion of expension of the pump station of expension of the projects more security systems into the WVTP control system. The project bind states and regions and installation of expension of the project and 2) the costs for security costs include conduit and wining for new underground tank lead detection explained requirements when necessare. Electrical costs include conduit and wining for new underground tank lead detection explained requirement sweet necessare. Electrical costs include conduit and wining for new underground tank lead detection explained requirement sweet necessare. Electrical costs include conduit and wining for new underground tank lead detection systems was noted and the pipes were place back into service. It was noted that the costing was peeling off in places on the project will specify the pipes to be included with CP #2155. 100,000 112,64 test and the advector in pipe to the includes with CP #2155. 2,808,000 112,64 test and secore the project will specify cont asplace back into		37,337	98,936	
Hold						100 000 000	
Project On	9400	Nutrient Removal	Placeholder for facilities required to remove nutrients (nitrogen and	-	-	100,000,000	649,490
Hold Project Not	8045	System Integrate: Rump Station	phosphorous) to meet future regulations.		150.000	169.062	
Started	6045	Security into WWTP Controls	security systems into the WWTP control system. The project	-	150,000	100,902	-
Started			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.				
Project Not	9041	Underground Fuel Tank Replacemen	t Future Underground Storage Tank regulations may require removal	458,000	458,000	515,897	-
Started			of this tank. Remove 15,000 gallon underground fuel (diesel) tank				
			and replace with a tank that meets regulatory requirements when				
			indecessary. Electrical costs include conduit and wiring for new				
			moving the tank				
Proiect Not	9084	Seismic Upgrade - DMF 42" Effluent	Install lateral bracing on the DMF 42" effluent piping. (Seismic	167.300	167.300	188.449	-
Started		Piping	Improvement Program No. P14).				
Project Not	9093	Headworks Odor Control	Cover grating and open areas, treat odorous air.	929,500	929,500	1,047,001	-
Started				[
Project Not	9094	Thickener Overflow Line Butterfly	The butterfly valve is worn and no longer working as it is intended.	28,300	28,300	-	-
Started		Valve Replacement					
Project Not	9171	Interior Coating of Horizontal	The Horizontal 24" Mix Pipe Lines were inspected in 2009 and	-	100,000	112,641	-
Started		Influent 24" Mix Pipes for Digester 3	minimial reduction in pipe thickness was noted and the pipes were				
			placed back into service. It was noted that the coating was peeling				
			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.				
Project Not	9172	Thickening Improvements - Phase II	Gravity Belt Thickeners were installed under CIP #8018, Thickening	-	2,808,000	-	-
Started			Automation in 2014-2015. If and when flows and loadings increase,				
			Phase II will install one or more GBTs. This is a project placeholder				
Device at Next	0472	Devente vice and Call da Use differe	and not currently funded.		1 1 2 2 2 0 0	4 205 400	
Project Not	9173	Dewatering and Solids Handling	Implement the dewatering improvements recommended by the	-	1,123,200	1,265,188	-
Starteu		improvements - Phase in	hress				
Project Not	9174	Digester Supernatant Piping	The existing supernatant piping only allows for supernating to	-	300,000	337,924	-
Started		Upgrades	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 supernantant flow. The project cost				
			assume \$50,000 for the evaluation and a placeholder of \$250,000				
Project Not	0195	Water Cappons at Agration Pasins	for implementation.		107 250	114 590	
Started	5105	Water Carnons at Aeration basins	volume high pressure water for peration hasin wash-down	-	107,230	114,565	-
Project Not	9187	Secondary Clarifier Weir Washers	Install weir washers on secondary clarifier weirs to facilitate		248.820	265.846	
Started			routine daily washing and in support of eventual single shift				
			operations and maintenance.				
Project Not	9196	Electronic O&M Manuals	Develop Electronic O&M manuals to replace existing paper	-	1,000,000	1,000,000	-
Started	}		manuals. Extent of e-manuals will be determined to coincide with				
			full plant automation requirements.				
Project Not	9197	In-Plant Recycled Water System	Expand the recycled water pipeline installed under CIP 9018 to	-	231,660	247,511	-
Started		Expansion	supply cooling water to the new emergency generators in the SHB				
Project Not	9212	Security Arm Gates	Install security lift arm gates to block access to cars from areas of		80.000	83 131	
Started	5212	Security Ann Gates	the plant past the parking lot		80,000	05,454	
Project Not	9225	DCP2 Processor Upgrade	DCP2 Control Logix Upgrade (Dual Chassis) for central data	-	-	103,800	-
Started			collection and Critical Alert Alarm (CAA) system monitoring and				
			management. The current system is beyond it's useful life and has				
			no redundancy.				
Project Not	9233	Strategic Technology Testing	Set aside a small project budget to assist with future possible pilot	-	-	-	-
Started	0335	Assistance	studies. Do not fund project at this time.			1 400 000	
Started	9235	ugester Gas Storage	construct storage for digester gas gas equalization in support of	-	-	1,400,000	-
Starteu			Gas production expected to rise with introduction of co-direction				
			materials (food waste and FOG)	}			
Project	6005	Influent Force Main - Rehabilitation	Project redefined into pipeline segments; retire this CIP #. Repair	125,053.500	2,786.934	3,031.955	3,031.955
Merged		or Parallel	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.	ļ			
Project	8014	Primary Sludge Piping System Valve	Install valve actuators and new valves as needed to facilitate	281,700	-	-	-
Merged		Automation	automation of the primary sludge system. Delete project and	1			
£	.3	3	inerge with 8007.	3			

SVCW Capital Improvement Program CIP Project Status - REMAINING

			CIP Project Status - REMAINING				
							14-Nov-16
				2008 CIP	2013 CIP	2015 CIP	
	Project			(Original,	Update	Update	Actual Spent thru
Project Phase	No.	Project Name	Project Description/Status	2007 \$s)	(2010 \$s)	(2015 \$s)	November 2016
Project	8024	Thickening Pump #1-6 Remote on /	Combined with Thickener Automation (CIP 8018) via SPA project.	360,600	10,978	25,920	0
Merged	}	off / speed controls	Includes effort for motor replacement.				
Project	8030	Automation: Instrumentation &	Provides support and funding for general requirements of projects	-	670,509	433,801	452,062
Merged		SCADA Program - General Support	contained within the Energy and Automation Program. Do not fund				
			project in 2015 Update				
Project	9108	Scum Flowmeter	Combined with Thickener Automation (CIP 8018).	29,200	-	-	-
Merged							
Project	9165	Seismic Upgrade of Digester Mix	De werk under SDA preiert CID # 9021	-	111,500		-
Merged		Room and Boiler Room Piping	Do work under SPA project, CIP # 8021.				
Admin	9078	10-Yr CIP Program Annual Updates	Update the 10-Year CIP and costs annually or as needed to ensure	180,000	300,000	337,924	53,891
			that projects are scheduled and funds are available each year				
Admin	9130	Capital Improvement Engineering	Funds staff required to coordinate and implement the Capital	7,000,000	7,000,000	12,884,894	223,849
			Improvement Program.				
Admin	9158	CIP Financial Assistance	State Water Resources Control Board SRF construction loan	-	1,000,000	1,126,413	58,073
			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.				
Admin	9159	OCIP Funding	Repository for funding the OCIP and payment to Aon for	-	6,000,000	6,000,000	60,737
		-	management of the program for first five years. New OCIP program				
			being evaluated in 2015.				
Admin	9184	LOC Funding - Phase I	Fees for setting up and managing LOC with Bank of the West.	-	105,431	10,731	(0)
		-	Process complete.				
Admin	9209	LOC Funding - Phase II	Initial Set-up and Annual fee for LOC with Wells Fargo as of 2015.	-	120,000	125,151	-
TOTALS - REM	AINING P	ROJECTS	·······	\$135,109,900	\$28,350,014	\$131,830,290	\$4,758,646

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

Commissioners' Requested Action Items

Intering Case Lompites Image: Progress Complete 12/12/2015 1 Prepare discussion re: financing the CP (bondy/io bonds) 1/1/2/2017 -/ Incluie as part of financial planning tool 13/10/2016 1 Discuss 2017 Commission Meeting Dates 12/8/2016 -/ -/ Incluie as part of financial planning tool 13/10/2016 2 Comvision: System DBR 512/8/2016 -/ -/ Incluie as part of financial planning tool 10/13/2016 2 Conveyance System DBR 512/8/2016 -/ 12/8/2016 -/ Incluie as part of financial planning tool 10/13/2016 1 -/ 12/8/2016 -/ 12/8/2016 -/ 12/8/2016 Comvision: reside of thirs of plannet Tool for top per meets at EB 10/13/2015 1 1 System Studies on of Goober 1210. 12/8/2016 -/ 12/8/2016 -/ 12/8/2016 -/ 12/8/2016 -/ 12/8/2016 -/ 12/8/2016 -/ 12/8/2016 -/ 12/8/2016 -/ 12/8/2016 -/ 12/8/2016 -/ 12/8/2016	Commission		Action Item	Requested or Estimated Date for		Status		Date of Completion	Notes
12/19/2015 1 Prepare discussion re-financing the CIP (bonds/no bonds) 1/1/2017 ✓ Include as part of financial planning tool 11/10/2016 1 Discuss 2017 Commission Meeting Dates 12/8/2016 ✓ 12/8/2016 Freematic meeting dates. 2 Conveyance System DER >12/8/2016 ✓ 12/8/2016 Freematic meeting dates. 3 Investment Report 12/8/2016 ✓ 12/8/2016 Freematic meeting dates. 10/13/2016 ✓ 12/8/2016 ✓ 12/8/2016 France mandres in report is in to front gate markers. 10/13/2016 ✓ 12/8/2016 ✓ 12/8/2016 France mandres in report is in to front gate markers. 10/13/2016 ✓ 12/8/2016 ✓ 12/8/2016 France mandres in report is in to front gate markers. 10/13/2016 ✓ 12/8/2016 ✓ 12/8/2016 ✓ 12/8/2016 10/13/2016 ✓ 12/8/2016 ✓ 12/8/2016 Issue finance markers in report is in to front gate gate markers. 1 System DER 12/8/2016 ✓ 10/14/2015 Mol	Meeting Date			Completion	Ongoing	In Progress	Complete		
13/1/2016 1 Prepare distuscion en innoning file (LP) positive to some information of the some information file (LP) positive to some information (LP) positive to some informated (LP) positive to some information (LP)						· ·			
11/10/2016 1 Discuss 2017 Commission Meeting Dates 12/8/2016 ✓ 12/8/2016 Commission meeting conditional meeting dates. 2 Conveyance System DER 31/8/2016 ✓ 12/8/2016 Lize/2016 Lize/2017 Lize/2016 Lize/2016 Lize/2016 Lize/2016 Lize/2016 Lize/2016 Lize/2016 Lize/2017 Lize/2017 Lize/2017 Lize/2017	12/8/2016	1	Prepare discussion re: financing the CIP (bonds/no bonds)	1/12/2017		<i>.</i>	<u> </u>		Include as part of financial planning tool
1 1 Consist out Continuous Netting and: 1/1/2005 Processes out Continuous Netting and: 2 Conveyance System DIR >12/8/2016 ✓ 12/8/2016 Conveyance System DIR 21/8/2016 ✓ 12/8/2016	11/10/2016	1	Discuss 2017 Commission Meeting Dates	12/8/2016		1	./	12/9/2016	Commissioners confirmed meeting dates
2 Conveyance System DBR >12/8/2016 ✓ 12/8/2016 ✓ additional meeting exected until TER. Staff for eport 4 sector. 3 Investment Report 12/8/2016 ✓ 12/8/2016 Ensure different of ERI are present at FER meeting in Agrin. 10/13/2016 1 TSystem Stur-down of October 171h 10/14/2016 ✓ 12/8/2016 Ensure members in report to the front sage numbers. 2 Conveyance System DER >12/8/2016 ✓ 10/14/2016 Antify public of planned TI shutchown id a website. 3 SRF Funding Availability January of February ✓ 10/14/2016 Notify public of planned TI shutchown id a website. 4 Convegance System Connission sub-committee NA ✓ 11/7/2016 Notify public of planned TI shutchown id a website. 5 Greendale property construction progress 6/30/2017 ✓ Issued information and total convegance system Connission sub-committee NA ✓ 11/7/2016 Notify public of planned information sub-committee NA ✓ Issued formation records and notify pass issues for accords in poetry construction progress. Issued formestion records in progress. NA ✓ Issued form	11, 10, 2010	1		12/0/2010			•	12/ 5/ 2010	Presentation provided at December Commission meeting: no
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5E-1

Commissioners' Requested Action Items

Last Update: 1/3/2017

Commission Monting Date		Action Item	Requested or Estimated Date for	Status		Date of Completion	Notes	
weeting Date			Completion In Ongoing Progress Complete					
12/8/2016	1	Prepare discussion re: financing the CIP (bonds/no bonds)	1/12/2017		1			Include as part of financial planning tool
	2	Present increase to reserves by \$1M	8/18/2016			1		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			1	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.
			1			1		
3/10/2016	1	Conveyance System Program - Report out on public comments received through Public Scoping period	4/14/2016			1	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			1	5/12/2016	Item discussed at May meeting; see notes above.
	1					1		
2/11/2016	1	File Retention Policy change	3/10/2016			1	3/3/2016	Change retention period for Comission meeting recordings to match minutes
	2	Engineering Monthly Report changes	2 months+/-			1	3/10/2016	Add project budgets and actual spend on completed as well as active projects
	3	BioForce Tech project status	3/10/2016			1	3/10/2016	Provide status update to Bob Grassilli (can be separate and direct memo)
	4	FOG Station	3/10/2016			1	3/10/2016	Provide information on grease receiving rates within the Bay Area (memo to the Commission; no action)
				1	-	-		
1/14/2016	1	Agendize change to Commission meeting times	2/11/2016			<i>\</i>	1/28/2016	Meeting time changed to 1600 hrs
	2	Receipt of gifts from vendors	2-3 month				5/12/2016	Item discussed at May meeting; see notes above.

MINUTES OF SILICON VALLEY CLEAN WATER REGULAR MEETING – DECEMBER 8, 2016

ITEM 1

CALL TO ORDER

The meeting was called to order at 4:01 p.m.

<u>ITEM 2</u>

ROLL CALL - Commissioners Duly Appointed By Each Agency Mayor John Seybert, Redwood City – Chair Mayor Eric Reed, Belmont– Alternate Commissioner Board President Edward Moritz, West Bay Sanitary District - Member Council Member 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 Linda Bruemmer, Administrative Services Director Kim Hackett, SVCW Engineering Director Bob Huffstutler, SVCW Operations Director Bill Bryan, SVCW Senior Engineer Bruce Burnworth, SVCW Senior Engineer Cindy Hui, SVCW Financial Analyst Ilana Schmidt, SVCW Administrative Assistant Jay Walter, City of San Carlos Derek Rampone, City of Redwood City George Otte, West Bay Sanitary District Bill Tanner, Tanner Pacific, Inc. Aren Hansen, Brown and Caldwell Mark Minkowski, Kennedy/Jenks Sheldon Chavan, Chavan & Associates

<u>ITEM 3</u>

PLEDGE OF ALLEGIANCE The Pledge of Allegiance was recited by attendees led by Commissioner Grassilli.

ITEM 4 PUBLIC COMMENT

There was no Public Comment.

ITEM 5A

SAFETY MOMENT

Mr. Child discussed sickness in the workplace and measures to prevent the spread of influenza during the winter season.

ITEM 5B MANAGER'S REPORT

<u>Holiday Potluck:</u> Mr. Child reported another successful Holiday Potluck at SVCW. Commissioner Moritz was able to attend and thanked those in attendance for their dedication and hard work. Mr. Child also expressed the other Commissioner's appreciation and well wishes to SVCW staff.

<u>Declaration of Emergencies</u>: Mr. Child was pleased to share two of the three Declaration of Emergencies are closed (San Carlos Pump Station suction pipe leak and the San Carlos Booster Station valve replacement) and added the valve replacement cost less than \$40 thousand, significantly less than the originally anticipated \$100 thousand. The Information Network repairs are almost finished with a couple more shutdowns remaining and will update the Commission when the Declaration of Emergency is closed.

<u>SRF Support Letter:</u> The letter to the State Water Resources Control Board in support of SRF funding will be brought to the Commission for signature at the February 9, 2017 Meeting. This will avoid the letter getting lost in the shuffle during the holiday season.

<u>Other Business</u>: Mr. Child announced he is speaking at the Sequoia Chapter of the Audubon Society's monthly meeting this evening to discuss the pond drainage as well as answer questions they have related to the conveyance system projects.

Due to personnel changes and two new hires, Mr. Child requested Mr. Widger return to support the Finance Department during this transition. Mr. Child added that Mr. Widger's existing employment contract with SVCW stipulates up to eight hundred hours at SVCW and to date, we have used only four hundred of those hours. Mr. Widger will not return as a full-time employee and will not exceed the maximum hours outlined in his contract.

Lastly Mr. Child advised Commissioners of the need to meet in Closed Session to discuss potential litigation items at next month's meeting.

ITEM 5C

FINANCIAL REPORTS

Mr. Anderson presented the current market environment and how it is anticipated to impact the way SVCW funds its Capital Improvement Program (CIP) in the future. This prefaces the updated Long-Term Financial Plan to be presented at the January 12, 2017 Commission Meeting. Mr. Anderson displayed a graph highlighting SVCW's current available funding, which is than \$11 Million at the end of October 2016. Though projects have slowed down, this amount will not last long. Mr. Anderson ran through three different scenarios to fund Sixty Million Dollars in expenditures over a two year period including either issuing more bonds or using a Line of Credit if interest rates do not change. Mr. Anderson will present an updated Long Term Financial Plan and findings at January's Commission Meeting. Commissioner Reed asked Mr. Anderson about the yield curve and suggested it may be informative in terms of what the market thinks bonds will be doing. Mr. Anderson agreed and made note for January's presentation.

ITEM 5G

DESIGN-BUILD PRESENTATION

Ms. Herrera shared the presentation originally given to the Commission Conveyance System Subcommittee on November 8, 2016 with Commissioner Lieberman and Commissioner Moritz. She proceeded to state the main concern is SVCW's SRF Loan. There was a Planning Loan issued for fourteen million dollars in August 2015 and SVCW has been reimbursed for planning efforts since that date. SVCW has been reimbursed about sixty-one percent of the available funds to date. Ms. Herrera explained once SVCW has received seventy percent of disbursements, SRF requires a draft preliminary design report prior to reimbursing any other funds. She posed the question of how the Agency can meet the 70% Planning Loan and be prepared with a final Construction Loan application as soon as possible or by April 2017. Staff has worked hard to find alternatives and recommended the Design-Build approach to the subcommittee as a potential solution. Ms. Herrera continued to show the current design-bid-build process versus the more efficient design-build process that could allow time for a completed Construction Loan by April. Ms. Herrera concluded her presentation posing the question of whether the Commission can support this solution, and the Commission provided direction to staff to proceed in this manner. Staff will proceed with the process and task orders will be brought forth in January.

<u>ITEM 5H</u>

CEQA DRAFT EIR PRESENTATION

Ms. Herrera made a presentation on the Draft Environmental Impact Report (EIR) released for public comment November 29, 2016. The key elements of the report are the project description, environmental impacts, potential mitigation to the identified impacts and project alternatives. There were sixteen categories analyzed with the following results: No significant and unavoidable impacts, all impacts can be mitigated to less than significant levels and no alternative projects were found that were environmentally superior and meet the project objectives. Ms. Herrera informed the Commission of a Public Comment Meeting scheduled for December 14, 2016, 7:00 p.m. and will report back to the Commission in January with any feedback. Mr. Reed asked if we expected a large turnout since we have received only two comments thus far and based on previous public outreach. Ms. Herrera responded that staff does not expect many people. Mr. Seybert stated that he had assured residents in the Shores that though the other alternatives still needed to be explored, the more invasive options are not the preferred alternative. He requested Staff bring forth any significant comments received from cities and agencies to address immediately.

<u>ITEM 6</u>

MATTERS OF COMMISSION MEMBER'S INTEREST There were no matters discussed.

<u>ITEM 7</u>

CONSIDERATION OF MOTION APPROVING CONSENT CALENDAR Motion/Second: Mr. Moritz / Mr. Grassilli

The motion carried by unanimous roll call vote.

<u>ITEM 8A</u>

CONSIDERATION OF MOTION APPROVING CONTRACT CHANGE ORDER FOR THE EFFLUENT OUTFALL PIPELINE REPLACEMENT (CIP #6012)

Ms. Herrera said the project is almost complete and SVCW is very pleased with Power Engineering's work. She presented a photo highlighting the challenge they've come against and have been working on for the past four months. This is the transition point between the old pipe connected to the main structure, and the new pipe laid in young bay mud. The old pipe is reinforced concrete and supported by the treatment plant structure which is sitting on piers to maintain stability, whereas the new pipe is made from High Density Poly Ethylene (HDPE) and laid in the young bay mud. After working diligently with SVCW's Engineering Department, Geotechnical Engineers, Design Engineers and Contractor, they came up with a design of building a concrete bridge around the pipe at the transition point to relieve the transition strain against the structure and at the joint. The bridge will extend out approximately forty feet from the main structure to protect the pipe from the influence of large vehicles driving over the area. Ms. Herrera added the HDPE pipe has the benefit of being flexible and the design should protect it at that point. SVCW worked with Power Engineering to price this out and after negotiation came to the amount requested. Mr. Seybert said designing a bridge that would absorb all the pressure and then disperse it out is a very clever design. Mr. Reed asked how the pipes are going to be connected and Ms. Herrera responded that Power Engineering will weld a new flange on the steel pipe and a flange on the HDPE pipe and it will be bolted together. Mr. Seybert asked what was the initial contract amount and Ms. Herrera said \$8.9 Million. Mr. Seybert replied that with a project of this magnitude, they should not skimp on this crucial element of the repair. Mr. Moritz asked what would happen if there was a leak in the future and Ms. Herrera stated it would be necessary to cut through the concrete bridge if that should ever occur.

Motion/Second: Mr. Grassilli / Mr. Moritz

Move approval of CONTRACT CHANGE ORDER FOR THE SVCW EFFLUENT OUTFALL PIPELINE (CIP #6012) REPLACEMENT IN THE AMOUNT OF \$430,500 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – POWER ENGINEERING CONTRACTORS

The motion carried by unanimous roll call vote.

ITEM 8B

CONSIDERATION OF MOTION ACCEPTING AND RECEIVING SILICON VALLEY CLEAN WATER'S ANNUAL AUDITED FINANCIAL REPORT

Mr. Anderson began by introducing Sheldon Chavan who represented Chavan & Associates, the firm hired by SVCW for its annual audit. Mr. Anderson then went through some of the highlights of FY2015-16 to summarize some of the major events of the year. SVCW has a clean opinion letter from the Auditors and increased total net position by \$13.8 Million versus the previous year. Some of the increase in net position was due to the

receipt of cash contributions from two member agencies, Redwood City and Belmont, as they chose to pay some, or all of their, current CIP cost share with on-hand cash reserves rather than borrowing more money. Mr. Anderson discussed more highlights including continuation of investment into the Capital Improvement Program, strengthening SVCW's reserves and revenues and expenses meeting the budget. Mr. Anderson said between the CaIPERS liability adjustments during the year and emergency repairs requiring immediate funding, he is pleased with the year-end results. He followed with a snapshot of the Agency's Statement of Net Position and mentioned it increased by nearly \$14 million. Mr. Anderson also mentioned that the amount of dollars shown as depreciation has gone up since we have many more assets in service - which is a good thing since it shows that projects are being completed, but comes with the recognition of depreciation. Mr. Seybert asked about rules with using the same auditing firm each year. Mr. Anderson replied that we have two more years on the existing contract, and added the actual team conducting the audit rotates yearly.

Motion/Second: Mr. Reed / Mr. Grassilli

Move approval of ACCEPTANCE AND RECEIPT OF BASIC FINANCIAL STATEMENTS AND INDEPENDENT AUDITORS' REPORT FOR YEAR ENDED JUNE 30, 2016

The motion carried by unanimous roll call vote.

ITEM 9 CLOSED SESSION & RECONVENING There was no Closed Session.

ITEM 10 ADJOURN There being no further business, the meeting adjourned at 4:46 p.m.

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

SVCW WARRANT REGISTER

SVCW Warrant Register for period covering November 4, 2016 to November 18, 2016.

SILICON VALLEY CLEAN WATER WARRANT REGISTER

FUND RECAP

NAME	FUND	AMOUNT
RETIREE HEALTH INSUR. FD.	12	35,000.00
CAPITAL IMPROVEMENT FUND	14	35,349.00
STAGE 2 CAPACITY FUND	15	1,299.50
OPERATION	18	315,136.48
RECYCLED WATER FUND	19	22,763.30
PLANT - CIP BOND	20	882,265.44

TOTAL FOR APPROVAL

11-18-16

\$1,291,813.72

DR 11/17/10

PAGE 9477

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 9455 THROUGH 9477 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 19092 THROUGH 19187 INCLUSIVE, TOTALING IN THE AMOUNT OF \$1,291,813.72, 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,

11.121,16 DATE CONTROLLER 5 12/1/2010

7B-2

SILICON VALLEY CLEAN WATER WARRANT REGISTER 11/18/16

	WARRANT				
NAME	NUMBER 19092	INVOICE #/DESCRIPTION	AMOUNT 2,636.98	DETAIL	FUND
SUPPLITES		9939027907 8/2016 WELDING GASES	-	7.25	18
30.1 2220		9939027907 8/2016 WELDING GASES		1,222.02	18
		9939027907 8/2016 WELDING GASES		41.54	18
		9939027907 8/2016 WELDING GASES		86.92	18
		9939751330 9/2016 O&M MAINT WELDING GASES		40.20	18
		9939751330 9/2016 O&M MAINT WELDING GASES		7.25	18
		9939751330 9/2016 O&M MAINT WELDING GASES		1,182.60	18
		9939751330 9/2016 O&M MAINT WELDING GASES		49.20	18
	19093		366.87		
		11182016 REIM-10/16 CELL PHONE CHARGES		45.00	18
CONF. & TRAV.		11182016A REIM-TRAVEL AIRFARE FOR RNG WORKSHO	P TO LAX	116.20	18
		11182016B REIM-TRAVEL TAXI 10/28/16 FOR RNG W	ORKSHOP	91.05	18
		11182016C REIM-TRAVEL MEALS FOR RNG WORKSHOP	10/28/16	29.62	18
		11182016D REIM-11/16 CELL PHONE CHARGES		45.00	18
MEMB. & MEET.		11182016E REIM-11/3/16 CWEA-SFBS NOVEMBER DIN	NER MEETI	40.00	18
ALLTED TRON CO., INC.	19094		1,094.36		
MISCELLANEOUS		130947 FLATBAR, SS316		344.44	18
MACHINERY AND EOUIP MAINT MAT	E	130947 FLATBAR, SS316		405.48	18
		130947 FLATBAR, SS316		344.44	18
AL PHA ANALYTTCAL LABORATORIES	19095		2,490.00		
CONTRACT SERV. (NON-MAINT.)		6082550RPSVCW LAB ANALYSIS		564.25	18
		6082550RPSVCW LAB ANALYSIS		1,080.75	18
		6103550RPSVCW SAN CARLOS LAB ANALYSIS		465.00	18
		6110940RPSVCW RWC LAB ANALYSIS		380.00	18
APPLEONE EMPLOYMENT SERVICES	19096		993.92		
PROFESSIONAL SERVICES		14275134 W/E 11/5/2016 BRIAN WONG ACCOUNTING	SERVICE	993.92	18

SILICON VALLEY CLEAN WATER WARRANT REGISTER 11/18/16

	WARRANT					
NAME	NUMBER	INVOICE	E #/DESCRIPTION	AMOUNT 245.00	DETAIL	FUND
CONTRACT SERV. (NON-MAINT.)	1909.	A16149	ANALYSIS & REPORTING - SULFUR COMPOUNDS		245.00	18
REECHER ENGINEERING	19098			7,544.00		
CONTRUCTION-DESIGN		91648	8/25-9/24/16 T.O.2016-02 FOOD WASTE ELECTRICAL	E	328.00	20
		101643	9/25-10/24/16 T.O.2016-03 12KW ELECTRICAL ENG.	•	164.00	20
		101643	9/25-10/24/16 T.O.2016-03 12KW ELECTRICAL ENG.	•	164.00	20
		101644	9/25-10/24/16 T.O.2016-05 SOLIDS PROCESS AUTOM	4A	601.33	20
		101644	9/25-10/24/16 T.O.2016-05 SOLIDS PROCESS AUTOM	1A	601.33	20
		101644	9/25-10/24/16 T.O.2016-05 SOLIDS PROCESS AUTOM	4A	601.34	20
CONTRUCTION-DESIGN		101647	9/25-10/24/16 T.O.2016-06 IT OUTAGE/POWER SURG	GE	1,148.00	14
CONTRUCTION-DESIGN		101649	9/25-10/24/16 T.O.2016-07 REPLACEMENT OF AERAT	ГІ	328.00	20
		10165 1	9/25-10/24/16 T.O.2016-04 WETSIDE REDUNDANT PC	W	3,608.00	20
RELMONT TIRES, WHEELS & SERVIC	19099			810.45		
MACH & FOULP MAINT SERVICES		41978	MOUNT AND BALANCE TIRES		376.42	18
		41978	MOUNT AND BALANCE TIRES		60.00	18
MACHINERY AND EQUIP MAINT MAT	E	42192	TIRE REPLACEMENT UTILITY TRAILER		374.03	18
BROWN & CALDWELL	19100		:	35,366.73		
CONTRUCTION-DESIGN		112752	31 7/29-8/25/16 T.O.2015-08 DIGESTER&THICKENER	F	465.72	20
		112752	31 7/29-8/25/16 T.O.2015-08 DIGESTER&THICKENER	F	465.72	20
		112752	31 7/29-8/25/16 T.O.2015-08 DIGESTER&THICKENER	F	465.72	20
		112775	97 8/26-9/29/16 T.O.2015-08 DIGESTER&THICKENER	F	408.67	20
		112775	97 8/26-9/29/16 T.O.2015-08 DIGESTER&THICKENER	F	408.67	20
		112775	97 8/26-9/29/16 T.O.2015-08 DIGESTER&THICKENER	F	408.66	20
CAPITAL		112775	99 8/26-9/29/16 T.O.2012-02 NUTRIENTS STRATEGY		1,299.50	15
CONTRUCTION-DESIGN		112776	77 7/1-9/29/16 T.O.2014-07 DRYING BED IMPR		5,991.57	20
		112776	83 8/26-9/29/16 T.O.2016-04 WETSIDE POWER STRUC	ст	3,268.25	20
		112783	01 8/26/16-9/29/16 PST REHAB T.O.2015-16 C#9080	D/	3,167.81	20
		112783	01 8/26/16-9/29/16 PST REHAB T.O.2015-16 C#9080	0/	9,503.44	20
		112783	33 8/26-9/29/16 T.O.2014-06 36IN GRAVITY SEWER	Р	9,513.00	20

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
BROWN INTERNATIONAL CORPORATIO CONSTRUCTION-CONTRACTOR	19101	307263 35% DOWN PMT FOR 202 SERIES 207 FOOD WASTE FINI	30,568.98	20
RUCKLES SMITH FLECTRIC COMPANY	19102	1,056.83		
MACHINERY AND EQUIP MAINT MAT	E	301060000 ANALOG INPUT	352.28	18
MISCELLANEOUS		301060000 ANALOG INPUT	704.55	18
	19103	855.67		
SALARIES - FULL TIME		11182016 REIM-TRAVEL AIRFARE FOR CUTTING EDGE TUNNEL C	126.20	20
		11182016A REIM-TRAVEL LODGING 10/9/16 FOR CONFERENCE I	690.72	20
		11182016B REIM-TRAVEL UBER 10/6-11/9/16 TO/FM AORPORT	38.75	20
CALTEORNIA DETAILERS INC	19104	275.00		
MACH & EQUIP MAINT SERVICES	1910.	42696 11/7 FLEET VEHICLE WASH ON-SITE	275.00	18
	10105	22.472.24		
CALIFORNIA ENVIRONMENTAL DEWAT	19102	1297 11/2016 CED 1004	21,658.74	19
CHEMICAL SUPPLIES		1297 11/2016 CED 1004	813.50	19
	10106	35.000.00		
RETIREE MEDICAL PAYMENTS	19100	11182016 PREFUNDING OPEB FOR MONTH OF 11/16 FY 16-17 C	35,000.00	12
CASCADE THECRATION & DEVELOPM	19107	12,577.50		
CONTRUCTION DESIGN	19107	1206 10/16 T.O.2016-01 SOLIDS PROCESSING AUTOMATION	2,880.00	20
CONTROCTION DESIGN		1206 10/16 T.O.2016-01 SOLIDS PROCESSING AUTOMATION	2,880.00	20
		1206 10/16 T.O.2016-01 SOLIDS PROCESSING AUTOMATION	2,880.00	20
CAPITAL		1207 10/1-10/31/2016 IT SUPPORT	3,937.50	14
COW GOVERNMENT. INC.	19108	82.22		
MACHINERY AND EQUIP MAINT MAT	TE	FTG7268 QTY 2 POWER SONIC BATTERY	82.22	18

SILICON VALLEY CLEAN WATER WARRANT REGISTER 11/18/16

NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
CINTAS CORPORATION NO. 3	19109	1	.,484.62		
SUPPLIES		464669315 11/2016 LAUNDRY SERVICE		744.56	18
00112220		464672097 11/2016 LAUNDRY SERVICE		740.06	18
COLLABORATIVE STRATEGIES CONSU	19110	9	,125.00		
CONTRUCTION-DESIGN		20160110 10/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRAM		57.20	20
		20160110 10/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRAM		572.00	20
		20160110 10/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRAM		124.80	20
		20160110 10/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRAM		41.60	20
		20160110 10/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRAM		57.20	20
		20160110 10/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRAM		20.80	20
		20160110 10/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRAM		20.80	20
		20160110 10/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRAM		62.40	20
		20160110 10/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRAM		72.80	20
		20160110 10/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRAM		10.40	20
		7602SV0816 8/16 T.O.2016-02 REDWOOD CITY PUMP STATION		3,045.00	20
		96065V1016 9/30-10/27/16 T.O.2016-06 MENLO PARK PUMP S	5	5,040.00	20
CONSOL TDATED PARTS INC.	19111		225.63		
CONSTRUCTION-CONTRACTOR		5033338 CONTACT BLOK, SWITCH		43.60	20
		5033338 CONTACT BLOK, SWITCH		7.63	20
		5033338 CONTACT BLOK, SWITCH		58.86	20
		5033338 CONTACT BLOK, SWITCH		54.50	20
		5033338 CONTACT BLOK, SWITCH		30.52	20
		5033338 CONTACT BLOK, SWITCH		30.52	20
CORROSION TESTING LABORATORIES	19112		540.00		
CONSTRUCTION-CONTRACTOR		11012016 SOLIDS AUTOMATION PROCESS PROJECT		270.00	20
		33503L EDS ANALYSIS OF BEAM AND RESIDUE SAMPLE		270.00	20
COUNTY OF SAN MATEO - AIRPORT	19113	97	7,300.00		
CONSTADMIN. & LEGAL		11182016 12/16 PERMIT#5384-LEASE SAN CARLOS AIRPORT PR	2	97,300.00	20

NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
CRYSTAL JANITORIAL SERVICE, IN CONTRACT SERV. (NON-MAINT.)	19114	27802 11/2016 MONTHLY CLEANING	3,820.00	18
CYCLOTRON INC	19115	46,750.00		
PROFESSIONAL SERVICES		1407 SOFTWARE SUPPORT SERVICES	9,000.00	18
		1405 SOFTWARE SUPPORT SERVICES	20,000,00	18
CONTRACT SERV. (NON-MAINT.)		1406 SOFTWARE SUPPORT SERVICES	20,000.00	TO
D & D I TET TNC	19116	672.88		
MACH & FOUTP MAINT SERVICES		101919 IGNITION SWITCH, DECAL KIT	28.99	18
		101919 IGNITION SWITCH, DECAL KIT	643.89	18
D HE NITCHOL CON CORPORATION	19117	60,970.86		
	1911.	1F 10/10-10/31/16PRG PMT#1.225A FEEDER INSTALLATION	19,417.80	20
		2E 9/15-10/31/16 PRG PMY#2 CONTROL BLDG.UPS SYSTEM REP	15,937.06	14
CONSTRUCTION-CONTRACTOR		1EE 10/10-10/31/16 PRG PMT#1,225A FEEDER INSTALLATION	25,616.00	20
DAVID 3 DOWERS AND ASSOCIATES	19118	31,808.58		
CONTRUCTION-DESIGN		2016016 9/16 T.O.2016-01 CIP FINANCIAL ASSISTANCE	392.50	20
		20150210 9/16 T.O.2015-02 PROGRAM EIR PREPARATION	1,727.88	20
		20150210 9/16 T.O.2015-02 PROGRAM EIR PREPARATION	17,278.80	20
		20150210 9/16 T.O.2015-02 PROGRAM EIR PREPARATION	3,769.92	20
		20150210 9/16 T.O.2015-02 PROGRAM EIR PREPARATION	1,256.64	20
		20150210 9/16 T.O.2015-02 PROGRAM EIR PREPARATION	1,727.88	20
		20150210 9/16 T.O.2015-02 PROGRAM EIR PREPARATION	628.32	20
		20150210 9/16 T.O.2015-02 PROGRAM EIR PREPARATION	628.32	20
		20150210 9/16 T.O.2015-02 PROGRAM EIR PREPARATION	1,884.96	20
		20150210 9/16 T.O.2015-02 PROGRAM EIR PREPARATION	2,199.12	20
		20150210 9/16 T.O.2015-02 PROGRAM EIR PREPARATION	514.24	20

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NAME WARR	ANT ER INVOICE #/DESCRIPTION AMOUNT 1 297 70	DETAIL	FUND
DIXON-FLICK, JENNIFER 1911	11182016 DETM_10/22-10/26/16 TRAVEL -LODGING FOR CALPE	322.92	18
MEMB. & MEET.	11182016 REIM-10/22-10/26/16 TRAVEL EDUCING FOR CALLE	24.00	18
	11182010A REIM-10/22-10/20/10 HOVEL SEEN RANGENO FOR 111820160 DETM-11/1-11/A/16 TRAVEL SEEN RANGENO FOR CALLER R	743.52	18
	111020100 REIM-11/1-11/4/10 TRAVEL COULING FOR COLLECK	57.00	18
	$\frac{11102010C}{11102010C} = 11111111111111111111111111111111111$	51.53	18
	111820160 REIM-11/1-11/4/16 TRAVEL-MERES FOR CALLERA 11182016c DETM-11/1-11/4/16 TRAVEL-MELES FOR CALLERA	98.82	18
		50102	
DRE SOLUTIONS GROUP LLC 1912	450.00		
CONTRACT SERV. (NON-MAINT.)	12765 11/2016 MY SAFETY OFFICER MONTHLY SUBSCRIPTION F	450.00	18
	1 69.563.00		
EAST BAY MUNICIPAL UTILITY DIS 1912	EPHIPDON1071 EV17 RACWA MEMBERSHTP&SPECTAL PROGRAMS FFE	57,563,00	18
MEMB. & MEEL.	EBMBDOO1071 FT17 BACWA MEMBERSHITAST COLLE TROGENDS TEL	12,000,00	18
IRAINING			
EDGLEY, KTP D. 1912	2 24,124.16		
CONTRUCTION-DESIGN	1030sv1610 10/3-10/30/16 LABOR IN CA	14,769.00	20
	10305V1610A 10/3-10/30/16 LABOR OUTSIDE CA	4,387.50	20
	1030SV1610B REIM-10/3-10/30/16 TRAVEL EXPENSES	6,001.49	20
MISCELLANEOUS	1030sv1610C 7% NON RESIDENT WITHHOLDING 10/3-10/30/16	-1,033.83	20
SUSSON NODGAL LLC 1917	3 8.628.44		
CONSTRUCTION_CONTRACTOR	15121 OTV 4 CERAMALLOY, CP+AC, EROTION/CORROTION PROTE	3,102.14	14
CONSTRUCTION-CONTRACTOR	15121 Oty 4 CERAMALLOY, CP+AC, EROTION/CORROTION PROTE	4,336.02	14
	15121 Qty 4 CERAMALLOY, CP+AC, EROTION/CORROTION PROTE	1,190.28	14
1012	4 5.450.00		
ENVIRO-CARE INC 1912	PTLOT2153039 11/7-12/6/16 PTLOT 215303-30 DAYS TEST FE	5.450.00	20
CONSTRUCTION-CONTRACTOR		- • -	
ENVIRONMENTAL RESOURCE ASSOCIA 1912	5 867.43		
SUPPLIES	809044 LAB CHEMICALS	867.43	18

	WARRANT				
NAME	NUMBER	INVOICE	#/DESCRIPTION	AMOUNT DETA:	(L FUND
EXPONENT THC.	19126			22,735.00	
CONST ADMIN. & LEGAL		310320	PROF.SVC.THRU 7/29/16 RISK ASSESSM	ENT 1,143.:	L8 20
		310320	PROF.SVC.THRU 7/29/16 RISK ASSESSM	ENT 415.2	70 20
		310320	PROF. SVC. THRU 7/29/16 RISK ASSESSM	ENT 415.2	70 20
		310320	PROF. SVC. THRU 7/29/16 RISK ASSESSM	ENT 1,247.3	LO 20
		310320	PROF. SVC. THRU 7/29/16 RISK ASSESSM	ENT 1,454.9	}4 20
		310320	PROF. SVC. THRU 7/29/16 RISK ASSESSM	ENT 207.8	35 20
		310320	PROF. SVC. THRU 7/29/16 RISK ASSESSM	ENT 1,143.	18 20
		310320	PROF. SVC. THRU 7/29/16 RISK ASSESSM	ENT 11,431.	75 20
		310320	PROF. SVC. THRU 7/29/16 RISK ASSESSM	ENT 2,494.	20 20
		310320	PROF SVC THRU 7/29/16 RISK ASSESSM	ENT 831.4	40 20
		312337	PROF SVC THRU 8/26/16 RISK ASSESSM	ENT 107.2	25 20
		312337	PROF SVC THRU 8/26/16 RTSK ASSESSM	ENT 1.072.	50 20
		212237	PROF SVC THRU 8/26/16 RTSK ASSESSM	ENT 234.0	0 20
		212237	PROF SVC THRU 8/26/16 RTSK ASSESSM	FNT 78.	0 20
		212227	PROF. SVC. THRU 8/26/16 RTSK ASSESS	ENT 107.	25 20
		212227	PROF. SVC. THRU 8/26/16 RISK ASSESS	IENT 39.0	0 20
		312337	PROF. SVC. THRU 8/26/16 RISK ASSESS	IENT 39.0	0 20
		312337	PROF. SVC. THRU 8/26/16 PTSK ASSESS	IENT 117.	20
		312337	PROF. SVC. THRU 8/20/10 RISK ASSESS	IENT 136	50 20
		312337	PRUF. SVC. IHKU 0/20/10 RISK ASSESS	ENT 19	50 20
		312331	PROF.SVC. HKU 0/20/10 KISK ASSESSM		

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	WARRANT				
NAME	NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
FASTENAL COMPANY	19127		7,072.46	_	
MISCELLANEOUS		CASAA49994 DRILL BIT, CHANNEL STRUT, NUTS		975.21	18
		CASAA49994 DRILL BIT, CHANNEL STRUT, NUTS		26.09	18
		CASAA49994 DRILL BIT, CHANNEL STRUT, NUTS		66.47	18
		CASAA49994 DRILL BIT, CHANNEL STRUT, NUTS		27.27	18
		CASAA49994 DRILL BIT, CHANNEL STRUT, NUTS		343.09	18
		CASAA49994 DRILL BIT, CHANNEL STRUT, NUTS		26.00	18
		CASAA49994 DRILL BIT, CHANNEL STRUT, NUTS		51.06	18
		CASAA49994 DRILL BIT, CHANNEL STRUT, NUTS		17.10	18
SUPPLIES		CASAA50005 VENDOR MANAGED RESTOCK		849.00	18
MACH & EQUIP MAINT SERVICES		CASAA50012 VENDOR MANAGED RESTOCK		592.21	18
MISCELLANEOUS		CASAA50031 QTY 100 SS CHANNEL NUT		261.07	18
		CASAA50032 QTY 12 U-BOLT		474.76	18
SUPPLIES		CASAA50052 VENDOR MANAGED RESTOCK		1,660.11	18
••••		CASAA50053 VENDOR MANAGED RESTOCK		969.69	18
MISCELLANEOUS		CASAA50128 VENDOR MANAGED RESTOCK		313.52	18
		CASAA50137 QTY 8 HEAVY DUTY HINGE		208.04	18
MACHINERY AND EQUIP MAINT MAT	E	CASAA50138 QTY 1 ROUND DIE		93.70	18
		CASAA50163 NO. 8 DIE STOCK		118.07	18
	19128		260.39		
CONST -ADMIN. & LEGAL	10110	558524770 FREIGHT THROUGH 10/21/2016		23.60	20
		558524770 FREIGHT THROUGH 10/21/2016		149.70	18
MACH & FOUTP MAINT SERVICES		558524770 FREIGHT THROUGH 10/21/2016		13.48	18
SUPPLIES		558524770 FREIGHT THROUGH 10/21/2016		73.61	18
EENTON CHARLES	19129		25,967.91		
CONST -ADMIN & LEGAL		65 9/26-10/21/16 LABOR IN CA		20,345.00	20
CONDIT ADMINI & LEGAL		65A 9/26-10/21/16LABOR OUTSIDE CA		2,015.00	20
		65B REIM-9/26-10/21/16 EXPENSES		5,032.06	20
MISCELLANEOUS		65C 7% NON RESIDENT WITHHOLDING 9/26-10/21/16		-1,424.15	20

NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION		AMOUNT 997.50	DETAIL	FUND
CONTRACT SERV. (NON-MAINT.)	19130	50488	10/2016 GRIT HAULING		997.50	18
	19131		15,	856.80		
CONTRUCTION-DESIGN	19191	16373	9/16 T.O.2015-05 FLOW EQUALIZATION FACILITY IMPR		5,687.50	20
CONTROCTION DESIGN		16373	9/16 T.O.2015-05 FLOW EQUALIZATION FACILITY IMPR		5,687.50	20
		16374	9/16 T.O.2014-01 PLANT LAND USE CIP#6004,9160,91		157.95	20
		16374	9/16 T.O.2014-01 PLANT LAND USE CIP#6004,9160,91		157.95	20
		16374	9/16 T.0.2014-01 PLANT LAND USE CIP#6004,9160,91		157.95	20
		16374	9/16 T.O.2014-01 PLANT LAND USE CIP#6004,9160,91		157.95	20
		16375	9/16 T.0.2015-06 WWTF LAND USE FACILITY CIP#6004		877.50	20
		16375	9/16 T.O.2015-06 WWTF LAND USE FACILITY CIP#6004		877.50	20
		16375	9/16 T.0.2015-06 WWTF LAND USE FACILITY CIP#6004		877.50	20
		16375	9/16 T.0.2015-06 WWTF LAND USE FACILITY CIP#6004		877.50	20
		16428	10/16 T.O.2014-04 CONVEYANCE SYSTEM PRGM LAND US		170.00	20
		16428	10/16 T.O.2014-04 CONVEYANCE SYSTEM PRGM LAND US		170.00	20

			WARR	ANT					
NAME			NUMB	ER INVO	:CE #/[DESCRIPTION	AMOUNT	DETAIL	FUND
GRAIN	GER		1913	2			1,891.43		
1	MACHINERY AND EQUI	CP MAINT	MATE	92452	74428	QTY 4 HOSE ADAPTER FITTINGS		80.38	18
				92644	27395	CREDIT MEMO FOR INV#9245774428 QTY 4 HOSE	E A	-80.38	18
	SUPPLIES			9264	85770	SCREWDRIVER AND BATTERY		198.16	18
	MACHINERY AND EQUI	P MAINT	MATE	92698	314902	SS TUBING, CONNECTORS		53.29	18
				9269	314902	SS TUBING, CONNECTORS		16.90	18
				9270	84610	QTY 4 MALE CONNECTOR		143.05	18
				9272	50046	QTY 4 SAFETY BOLLARD		530.18	18
	MISCELLANEOUS			9275	60328	QTY 6 CEMENT PIPE		126.10	18
	SUPPLIES			9276)11732	QTY 1 CUSTOM TRAFFIC SIGN		139.40	18
	MACHINERY AND EOU	IP MAINT	MATE	9277	69595	QTY 2 DRILL CHUCK KIT, SCREWDRIVER, SOLDE	ER	16.87	18
	•••••••••••••••••••••••••••••••••••••••			9277	69595	QTY 2 DRILL CHUCK KIT, SCREWDRIVER, SOLDE	R	24.74	18
	SUPPLIES			9277	69595	QTY 2 DRILL CHUCK KIT, SCREWDRIVER, SOLDE	R	110.57	18
				9277	69595	QTY 2 DRILL CHUCK KIT, SCREWDRIVER, SOLDE	ER	89.60	18
	MACHINERY AND EOU	IP MAINT	MATE	9277	569603	TUBE, PIPE AND DRAIN BRUSH		44.83	18
				9277	69603	TUBE, PIPE AND DRAIN BRUSH		384.55	18
	SUPPLIES			9278	204004	QTY 5 SPRAY BOTTLE		13.19	18
HANSO	N BRIDGETT LLP		1913	33			8,477.00		_
	PROFESSIONAL SERV	ICES		1177	071 9,	/16 LEGAL SERVICES-PUBLIC WORKS CONTRACTING	&I	8,477.00	18
HERC	RENTALS INC.		1913	34			7,155.89		
	RENTAL/LEASES			2885	20651	9/8-10/6/2016 RENTAL - TRACTOR DRYING BEDS	5	6,345.89	18
	·			2885	20651	9/8-10/6/2016 RENTAL - TRACTOR DRYING BEDS	5	810.00	18
HOME	DEPOT CREDIT SERV	ICES	1913	35			66.99		
	SUPPLIES			1593	140 M	AINTENANCE SUPPLIES&FINANCE CHARGE FROM INV	/#	46.99	18
	CHEMICAL SUPPLIES			FCH0	061037	50 MAINTENANCE SUPPLIES&FINANCE CHARGE FRO	M	20.00	18

NAME JENTECH SERVICES MACH & EQUIP MAINT SERVICES	WARRANT NUMBER 19136	INVOICE #/DESCRIPTION 2217 11/1-11/4,11/8-11/11/16 INSTRUMENT CALIBRATION 2217 11/1-11/4,11/8-11/11/16 INSTRUMENT CALIBRATION 2217 11/1-11/4,11/8-11/11/16 INSTRUMENT CALIBRATION 2217 11/1-11/4,11/8-11/11/16 INSTRUMENT CALIBRATION	AMOUNT 6,292.80	DETAIL 285.00 2,660.00 1,520.00 1,827.80	FUND 18 18 18 18
JHS CONSULTING, LLC CONTRUCTION-DESIGN	19137	2016025 9/1-10/30/16 T.O.2016-02 CIP FINANCIAL ASSIS 2016031 9/16-10/31/16 T.O.2016-03 CONVEYANCE SYSTEM 2016031 9/16-10/31/16 T.O.2016-03 CONVEYANCE SYSTEM	29,482.12 TA CE CE CE CE CE CE CE CE CE CE CE	1,105.00 1,560.74 15,607.42 3,405.26 1,135.08 1,560.74 567.54 567.54 1,702.63 1,986.40 283.77	20 20 20 20 20 20 20 20 20 20 20 20
KENNEDY/JENKS CONSULTANTS, INC CONTRUCTION-DESIGN	19138	10 7/1-9/30/16 T.O.2015-04 TUNNEL SUPPORT SVCS. FOR	53,797.65 GR	53,797.65	20
KUMAR, RAJNESH TRAINING	19139	11182016 10/31-11/3/16 BART &PARKING TO ATTEND WONDE	61.20 RW	61.20	18
LIEBERT CASSIDY WHITMORE CONF. & TRAV.	19140	11182016 SAN MATEO COUNTY EMPLOYEMENT RELATIONS CONS	126.00 OR	126.00	18
MASKELL PIPE & SUPPLY INC CONTRUCTION-DESIGN	19141	242901 CIP#6012 QTY5 FLANGE ADAPTER, QTY5 BACKING RI 243525 9/14-9/15/16 CIP#6012 LABOR & 243746 CIP#6012 HDPE PIPE,ADAPTS,MODLDED TEE&ELBOW	3,946.62 NG	656.65 2,536.70 753.27	20 20 20

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NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
METRO MOBILE COMMUNICATIONS MISCELLANEOUS SUPPLIES	19142	38705 QTY 3 PORTABLE RADIO 38705 QTY 3 PORTABLE RADIO	1,900.33	1,908.33 60.00	18 18
MID-PENINSULA WATER DISTRICT UTILITIES	19143	17439 9/25-10/25/2016 BLPS WATER	134.54	134.54	18
MONTEREY MECHANICAL CO. CONSTRUCTION-CONTRACTOR	19144	M10683 DIGESTER#1 PIPE INSTALLATION -CIP 9215 M104621 DIGESTER#2 PRESSURE WASH M104801 TEMPORARY GRAVITY BELT THICKENER INSTALLA	49,172.00	24,036.00 8,000.00 17,136.00	20 20 20
MOTION INDUSTRIES INC. MISCELLANEOUS MACHINERY AND EQUIP MAINT MA	19145 Te	CA24872510 OIL SEALS, BRGS & ASSEMBLIES CA24872510 OIL SEALS, BRGS & ASSEMBLIES CA24872510 OIL SEALS, BRGS & ASSEMBLIES CA24872811 QTY 2 MOTOR 1 1/2 HP	1,505.10	58.75 353.40 20.22 1,072.73	18 18 18 18
NAVIA BENEFIT SOLUTIONS ADMINISTRATIVE EXPENSES	19146	10064252 10/1-10/31/2016 PARTICIPANT FEE	181.10	181.10	18
O.K. LUMBER COMPANY MACHINERY AND EQUIP MAINT MA	19147 TE	399075 QTY 3 DOUG FIR PRESSURE TREATED	174.81	174.81	18
OFFICE DEPOT OFFICE SUPPLIES MISCELLANEOUS	19148	873564742001 OFFICE SUPPLIES 875276100001 OFFICE SUPPLIES 877070531001 OFFICE SUPPLIES 874700152001 QTY 18 LIQUID DRANO	455.99	79.67 89.94 104.11 182.27	18 18 18 18
OGASAWARA LANDSCAPE MAINTENANC CONTRACT SERV. (NON-MAINT.)	19149	23623 10/2016 LANDSCAPE WORK - REAR POND CLEANUP	7,500.00	7,500.00	18

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	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
SUPPLIES	19130	10170331 QTY 2 PUMP TUBING	703.23	785.25	18
PACE SUPPLY CORP MACHINERY AND EQUIP MAINT MAT	19151 Te	935545611 QTY 1 MERIT 2" SS BALL VALVE	144.80	144.80	18
PACIFIC GAS AND ELECTRIC COMPA UTILITIES	19152	1005201665919 8/31-9/30/2016 PLANT GAS 1101201665919 9/30-10/31/2016 PLANT GAS & COGEN 1109201624970 10/11-11/08/2016 GREENDALE ELEC GAS 1114201623701 10/14-11/14/2016 PLANT GAS/ELEC	3,364.45	1,103.68 902.42 614.55 743.80	18 18 18 18
PAN-PACIFIC SUPPLY CO. SUPPLIES MISCELLANEOUS	19153	29593791B FREIGHT CHARGES-PAN PACIFIC 29594491 QTY 1 CHESTERSTON 442 SPK	1,623.45	510.66 1,112.79	18 18
PENINSULA PUMP & EQUIPMENT INC MACH & EQUIP MAINT SERVICES	19154	2655 379 GREENDALE EMERGENCY PUMP REPAIRS	6,449.12	6,449.12	18
PENINSULA TRUCK REPAIR, INC. MACH & EQUIP MAINT SERVICES	19155	2878 TRACTOR REPAIR 2906 TRUCK REPAIR	31,871.53	18,080.86 13,790.67	18 18
POLYDYNE, INC. CHEMICAL SUPPLIES	19156	1088754 11/2016 7 TOTES C6265	17,549.00	17,549.00	18
POWER ENGINEERING CONSTRUCTION CONSTRUCTION-CONTRACTOR	19157	17B 10/16 PRG PMT#17,PLANT EFFLUENT OUTFALL LEAK R	300,586.00 Epai	300,586.00	20
PURE TEC INDUSTRIAL WATER MACH & EQUIP MAINT SERVICES	19158	1521936 FINANCE CHARGES FOR INV#1506247 AND #15140	15.30 50	15.30	18

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
R & B COMPANY	19159	2,008.53		
MACHINERY AND EQUIP MAINT MAT	re i i i i i i i i i i i i i i i i i i i	S1601644002 FREIGHT ONLY ORIGINAL INV#S1601644001	15.86	18
		S1588682002 QTY 3 PVC TEE	13.05	18
		S1595249001 QTY 4 SADDLE	355.45	18
CONSTRUCTION-CONTRACTOR		S1602332003 QTY 1 IP SADDLE, PVC	93.71	20
		S1602332003 QTY 1 IP SADDLE, PVC	631.48	20
		S1602332003 QTY 1 IP SADDLE, PVC	653.18	20
MISCELLANEOUS		S1604290002 QTY 1 TRUE UNION PVC BALL VALVE	245.78	18
REDWOOD CITY, CITY OF - FINANC	19160	12,669.11	-	
PROFESSIONAL SERVICES		BR41786 10/16 ACCOUNTING SERVICES	11,119.55	18
		BR41798 10/16 MONTHLY VPN, INTERNET, WEB FILTERING&REPOR	618.18	18
MACH & EQUIP MAINT SERVICES		BR41843 9/16-10/15/2016 VEHICLE FUEL CHARGES	931.38	18
REDWOOD CITY. CITY OF - WATER	19161	4,283.98	}	
UTILITIES		1028201606774 9/28-1028/2016 RCPS WATER	94.91	18
		1028201619903 9/28-10/28/2016 1406 WTR/SWR/GRB	218.29	18
		1028201619929 9/28-10/28/2016 1406 FIRE SERVICE	96.00	18
		1028201686984 9/28-10/28/2016 PLANT WAT GBG	3,874.78	18
REDWOOD SHORES COMMUNITY ASSOC	19162	655.00)	
CONSTADMIN. & LEGAL		161117 11/5/2016 FULL PAGE LEFT INTERIOR COLOR AD	655.00	20
RGM AND ASSOCIATES	19163	1,714.50)	
CONSTADMIN. & LEGAL		265 7/9-7/30/16 T.O.2013-01 SOLIDS PROCESS AUTOMATION	355.50	20
		265 7/9-7/30/16 T.O.2013-01 SOLIDS PROCESS AUTOMATION	355.50	20
CONTRUCTION-DESIGN		265 7/9-7/30/16 T.O.2013-01 SOLIDS PROCESS AUTOMATION	355.50	20
CONSTADMIN. & LEGAL		9253596 3/12-5/28/16 T.O.2013-01 SOLIDS PROCESS AUTOMA	216.00	20
CONTRUCTION-DESIGN		9253596 3/12-5/28/16 T.O.2013-01 SOLIDS PROCESS AUTOMA	216.00	20
CONSTADMIN. & LEGAL		9253596 3/12-5/28/16 T.O.2013-01 SOLIDS PROCESS AUTOMA	216.00	20

NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
ROYAL WHOLESALE ELECTRIC MACHINERY AND EQUIP MAINT MAT	19164 E	7003620401 QTY 1000 RED, BLACK WIRE 7003620401 QTY 1000 RED, BLACK WIRE	370.60	185.30 185.30	18 18
S & S SUPPLIES AND SOLUTIONS MACHINERY AND EQUIP MAINT MAT	19165 E	S2888266001 QTY 1 CHARGING ADAPTER	833.26	833.26	18
SABAH INTERNATIONAL INC MACH & EQUIP MAINT SERVICES	19166	123741 FIRE ALARM FOR HEAT DETECTOR	605.00	605.00	18
SANDUL, DUANE PROFESSIONAL SERVICES	19167	10svcw2016 10/2016 PROFESSIONAL SERVICES - SANDUL	1,700.00	1,700.00	18
SERRANO, MICHAEL SUPPLIES	19168	11182016 REIM-11/7/16 SAFETY WORK BOOTS	212.55	212.55	18
SILICON VALLEY CLEAN WATER (EE SUPPLIES	19169	11182016 12/16 COMPENSATION-EMPLOYEE ANNIVERSARY	225.00	225.00	18
SILICON VALLEY CLEAN WATER (SA ADMINISTRATIVE EXPENSES	19170	11182016 MONTHLY SAFETY INCENTIVE 11/2016	1,875.00	1,875.00	18
SNAP-ON INDUSTRIAL MACHINERY AND EQUIP MAINT MAT	19171 E	ARV30601230 QTY 2 18V BATTERY	333.45	333.45	18

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
TANNER PACIFIC, INC.	19172	81,107.00		
CONSTRUCTION-CONTRACTOR		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	5,652.00	20
CONTRUCTION-DESIGN		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	628.00	20
CONSTRUCTION-CONTRACTOR		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	9,804.00	20
		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	17,418.50	20
		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	10,777.00	20
		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	392.00	20
		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	3,872.00	20
		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	2,156.00	20
		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	1,604.00	20
		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	18,134.50	20
		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	4,243.00	20
		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	128.00	20
		21692 10/30-11/12/16 T.O.2016-01 CONSTRUCTION MGMT	600.00	20
CONSTRUCTION-CONSTRUCTION MC	SMT	21693 10/30-11/12/16 T.O.2016-04 CONSTRUCTION ADVISORY	5,698.00	14
TELEPACIFIC COMMUNICATIONS	19173	9,781.54		
UTILITIES		843878670 11/9-12/8/2016 TELEPACIFIC SERVICE	5,781.54	18
		843878670 11/9-12/8/2016 TELEPACIFIC SERVICE	1,000.00	18
		843878670 11/9-12/8/2016 TELEPACIFIC SERVICE	1,000.00	18
		843878670 11/9-12/8/2016 TELEPACIFIC SERVICE	1,000.00	18
		843878670 11/9-12/8/2016 TELEPACIFIC SERVICE	1,000.00	18
THERMO ELECTRON NORTH AMERICA	19174	2,009.04		
SUPPLIES		9020662150 QTY 2 SUPPRESSOR	2,009.04	18
THOMAS FISH CO.	19175	125.00		
SUPPLIES		21162 QTY 110 RAINBOW TROUT	125.00	18

SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 11/18/16

		WARRANT					
NAME		NUMBER	INVOICE #/D	ESCRIPTION	AMOUNT	DETAIL	FUND
U.S.	BANK CORPORATE PAYMENT SY	19176			4,3/6.58	1.00.00	- 0
	SUPPLIES		10242016LB	10/10/16 FASTRAK-RELOAD		160.00	18
			10242016BB1	9/26/16 MS0365 TEST USER SOFTWARE		100.00	18
	MACH & EQUIP MAINT SERVICES		10242016BB2	10/14/16 DOOR ACCESS SOFTWARE		1,51/./1	18
	SUPPLIES		10242016BB3	10/17/16 POWER EXTENSION CORDS FOR WORK	STA	49.00	18
			10242016BB4	10/19/16 CLEANING SAMPLES FOR IT		9.80	18
			10242016DC1	9/23/16 FUEL CHARGES		37.25	18
	MACH & EQUIP MAINT SERVICES		10242016DC2	9/23/16 RAM TRUCK REPAIR		400.71	18
	SUPPLIES		10242016DC3	9/26/16 FUEL CHARGES		30.00	18
	MACH & EQUIP MAINT SERVICES		10242016DC4	9/26/16 CAR WASH		19.99	18
	CONSTADMIN. & LEGAL		10242016EM1	9/26/16 LUNCHEON FOR CONTRACTOR APPRECI	ITA	1,876.88	20
	TRAINING		10242016EM2	9/27/16 SHUTTLE SVC FOR ATTENDEES OF JE	NBA	69.52	18
	MEMB. & MEET.		10242016EM3	9/27/16 CWEA ANNUAL MEMBERSHIP FEE- B.E	BRUE	172.00	18
			10242016EM4	9/27/16 CWEA ANNUAL MEMBERSHIP FEE- H.C	HIE	172.00	18
	TRAINING		10242016EM5	9/27/16SHUTTLE SVC FOR ATTENDEES OF JEM	IBAC	67.75	18
	MACH & EQUIP MAINT SERVICES		10242016EM6	9/27/16 WINDSHIELD REPAIR FOR TRUCK#115	581	69.00	18
	TRAINING		10242016EM7	9/29/16 CWEA SAFETY CONFERENCE REGISTRA	TIO	115.00	18
			10242016EM8	9/29/16 CWEA SAFETY CONFERENCE REGISTRA	TIO	115.00	18
			10242016EM9	9/29/16 CWEA SAFETY CONFERENCE REGISTRA	TIO	115.00	18
	SUPPLIES		10242016151	9/29/16 CREDIT FOR INCORRECT CHARGE BUY	(101	-45.56	18
			10242016IS2	10/5/16 CLEMENTINES FOR SNACKS WITH DAM	1	23.96	18
			10242016153	10/5/16 QTY 2 IONIC AIR PURIFIERS		644.90	18
			10242016154	10/6/16 REFUND FOR SHIPPING CHARGE OF A	IR	-44.95	18
			10242016155	10/17/16 POSTAGE FOR SRF LOAN APPLICATE	ION	13.45	18
			10242016JD3	CREDIT MEMO-QTY 4 LED LIGHT BARS		-1,626.20	18
			10242016JF1	10/17/16 EE ANNIVERSARY CARDS		131.49	18
			10242016JF2	10/17/16 EE ANNIVERSARY CARDS		114.12	18
	MEMB, & MEET.		10242016MA1	9/21-9/22/16 TRAVEL TO LAX MEALS -BOND	BUY	16.52	18
			10242016MA2	9/21-9/22/16 TRAVEL TO LAX MEALS -BOND	BUY	7.10	18
			10242016MA	9/21-9/22/16 TRAVEL TO LAX MEALS -BOND	BUY	20.14	18
			10242016MA4	9/21-9/22/16 TRAVEL TO LAX MEALS -BOND	BUY	25.00	18

		WARRANT					
NAME		NUMBER	INVOICE #/DE	SCRIPTION	AMOUNT	DETAIL	FUND
U.S.	BANK CORPORATE PAYMENT SY	19177			6,063.19		
	MEMB. & MEET.		10242016MA5	9/26/16 TRAVEL TO LAX -PARKING		46.90	18
			10242016ma6	9/26/16 SWRCB MEETING LUNCH		65.85	18
			10242016MA7	9/26/16 FUEL - ESCAPE		31.37	18
			10242016ma8	9/26/16 TAXI TO LAX		56.75	18
			10242016MA9	9/26/16 PARKING SACRAMENTO		9.00	18
C	CONF. & TRAV.		10242016мн1	9/26/16 TRAVEL WEFTEC-MEALS IN N	EW ORLEANS	13.63	18
			10242016MH2	9/27/16 TRAVEL WEFTEC-MEALS IN O	AKLAND	11.00	18
			10242016MH3	9/28/16 TRAVEL WEFTEC-MEALS IN N	EW ORLEANS	11.50	18
	SUPPLIES		10242016MH4	9/30/16 TRAVEL -PARKING		64.00	18
	CONF. & TRAV.		10242016MH5	9/30/16 TRAVEL WEFTEC - MEAL IN	NEW ORLEAN	10.92	18
	MACHINERY AND EQUIP MAINT MAT	E	10242016мн6	9/30/16 SVCW VEHICLE MAINT. 4 TI	RES INSTAL	860.16	18
	CONF. & TRAV.		10242016MH7	9/30/16 TRAVEL WEFTEC LODGING 3	NIGHTS IN	850.44	18
	MACH & EQUIP MAINT SERVICES		10242016MH8	10/7/16 SVCW VEHICLE CAR WASH&OI	L CHANGE	69.57	18
	CONF. & TRAV.		10242016RH1	9/26/16 AIRPORT SHUTTLE-TRAVEL T	O NEW ORLE	44.00	18
			10242016RH2	10/3/16 HOTEL -CONFERENCE IN NEW	ORLEANS	1,008.72	18
	SUPPLIES		10242016TH1	9/23/16 FASTRAK CREDIT ON TOLL T	AG DEPOSIT	-52.50	18
			10242016TH2	10/17/16 FUEL- FOCUS		26.36	18
	CONF. & TRAV.		10242016vv1	10/7/16 LODGING IN TAMPA-WATER R	EUSE CONFE	848.99	18
			10242016vv2	10/17/16 TUNNEL TECHNOLOGY CONFE	RENCE MEET	735.00	18
	TRAINING		10242016EM10	9/29/16 CWEA SAFETY CONFERENCE	REGISTRATI	115.00	18
	SUPPLIES		10242016EM11	9/30/16 LODGING TO WORK ON SHUT	DOWN TO 33	183.15	18
	TRAINING		10242016EM12	10/3/16 LODGING FOR JENBACHER T	RAINING IN	422.20	18
			10242016EM13	10/3/16 LODGING FOR JENBACHER T	RAINING IN	422.20	18
			10242016EM14	10/3/16 LODGING FOR JENBACHER T	RAINING IN	422.20	18
			10242016EM15	10/4/16 CWEA SAFETY CONFERENCE	REGISTRATI	115.00	18
	MEMB. & MEET.		10242016MA10	10/18/16 PARKING FOR MEETING WI	TH RWC FIN	0.50	18
			10242016MA11	10/18/16 PARKING FOR MEETING WI	TH RWC FIN	2.00	18
	MISCELLANEOUS		10242016DM1T	AX SALES TAX-QTY 1 COMPRESSOR		-300.69	18
			10242016DM2T	AX SALES TAX-FIRE FIGHTER HELMET	FLASHLIGH	-18.86	18
			10242016DM3T	AX SALES TAX-SPIN DOWN FILTER SS		-11.17	18

		WARRANT				
NAME		NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
U.S.	BANK CORPORATE PAYMENT SY	19178	AND ADDA CONFERNME AND TO TAX CHOOD I FAK DETECTOD	8,188.37	-2 45	10
	MISCELLANEOUS		102420160MSTAX SALES TAX-SNOOP LEAK DETECTOR		-10.90	10
			10242016JDITAX SALES TAX-QIY 2 GENERAL PUMP		-19.00	18
			10242016JD2TAX SALES TAX-QIY 2 CHAINSAW BLADES		-4.70	10
			10242016JD/TAX SALES TAX-FIBERGLASS GRATING		-0.10	10
			10242016JD8TAX SALES TAX-QTY SU DRINKING WATER		-34.03	10
			10242016JD9TAX SALES TAX-SOLAR TOP DISK FLAG LIGHT		-11.25	10
			10242016DM1 QTY 1 COMPRESSOR		3,041.09	10
	MACHINERY AND EQUIP MAINT MATE	E	10242016DM10 TOILET REPAIR KIT		22.8/	10
	SUPPLIES		10242016DM10 TOILET REPAIR KIT		22.70	10
			10242016DM11 PRO PLUS 36		430.55	10
			10242016DM12 GEL PRO STAND DESK		108.92	18
			10242016DM13 SAFETY GLASSES		28.54	18
			10242016DM14 SURGEX SA15		1,774.81	18
	MISCELLANEOUS		10242016DM14TAX SALES TAX-SURGEX SA15		-146.54	18
	SUPPLIES		10242016DM15 NIGHT GEAR SHOE LIGHTS		392.07	18
	MISCELLANEOUS		10242016DM15TAX SALES TAX-NIGHT GEAR SHOE LIGHTS		-32.37	18
			10242016DM16 MINIATURE BULB		13.89	18
	MACHINERY AND EQUIP MAINT MATH	E	10242016DM16 MINIATURE BULB		3.25	18
	MISCELLANEOUS		10242016DM16TAX SALES TAX-MINIATURE BULB		-0.92	18
	SMALL TOOLS		10242016DM17 SEMI STEEL CASTERS		70.80	18
			10242016DM17 SEMI STEEL CASTERS		1,177.67	18
			10242016DM17 SEMI STEEL CASTERS		257.19	18
	SUPPLIES		10242016DM18 COTTON SWABS, SHADE CORD		39.19	18
			10242016DM18 COTTON SWABS, SHADE CORD		20.78	18
	MISCELLANEOUS		10242016DM18TAX SALES TAX-COTTON SWABS, SHADE CORD		-1.72	18
			10242016DM2 FIRE FIGHTER HELMET FLASHLIGHT HOLDER		237.16	18
	MACHINERY AND EQUIP MAINT MAT	E	10242016DM3 SPIN DOWN FILTER SS		143.35	18
	SUPPLIES		10242016DM4 VISOR TRANSMITTER		14.65	18
	SMALL TOOLS		10242016DM5 SNOOP LEAK DETECTOR		13.93	18
	MISCELLANEOUS		10242016DM5 SNOOP LEAK DETECTOR		37.85	18

NAME	BANK CORPORATE PAYMENT SY	WARRANT NUMBER 19179	INVOICE #/DESCRIPTION	AMOUNT 2,172.67	DETAIL	FUND
	MACHINERY AND EQUIP MAINT MAT	E	10242016DM6 SHAIDE AIDE LARGE		301.88	18
	SUPPLIES		10242016DM7 VISOR TRANSMITTER		14.65	18
			10242016DM8 VISOR TRANSMITTER		14.65	18
			10242016DM9 VISOR TRANSMITTER		14.65	18
	SMALL TOOLS		10242016JD1 QTY 2 CENTRAL PUMP		239.78	18
			10242016JD1 QTY 2 CENTRAL PUMP		48.48	18
	MACHINERY AND EQUIP MAINT MAT	E	10242016JD10 QTY 3 THERMAL DETECTOR		100.00	18
	MISCELLANEOUS		10242016JD10 QTY 3 THERMAL DETECTOR		234.13	18
	MACHINERY AND EQUIP MAINT MAT	E	10242016JD10 QTY 3 THERMAL DETECTOR		117.07	18
	MISCELLANEOUS		10242016JD10TAX SALES TAX-QTY 3 THERMAL DETECTOR		-29.00	18
	MACHINERY AND EQUIP MAINT MAT	E	10242016JD11 3M PRIVACY FILTER		85.04	18
			10242016JD2 QTY 2 CHAINSAW BLADES		28.89	18
	MISCELLANEOUS		10242016JD2 QTY 2 CHAINSAW BLADES		28.89	18
	MACHINERY AND EQUIP MAINT MAT	E	10242016JD4 QTY 1 FLOW METER		291.06	19
	SUPPLIES		10242016JD56 PLASTIC COLANDER		19.52	18
			10242016JD56 PLASTIC COLANDER		8.98	18
	MACHINERY AND EQUIP MAINT MAT	E	10242016JD7 FIBERGLASS GRATING		98.10	18
	MISCELLANEOUS		10242016JD8 QTY 50 DRINKING WATER		419.65	18
	SMALL TOOLS		10242016JD9 SOLAR TOP DISK FLAG LIGHT		136.25	18
	AR USA INC.	19180		13,618.71		
	CHEMICAL SUPPLIES		SJ780962 10/2016 SOD HYPO 12.5% LIQUICHLOR		2,053.33	18
			SJ781634 10/2016 SOD BISULFATE 25%		4,367.96	18
			SJ781672 10/2016 SOD HYPO 12.5% LIQUICHLOR		853.05	18
			SJ782133 10/2016 SOD HYPO 12.5% LIQUICHLOR		2,013.50	18
			SJ783179 11/4/2016 SOD BISULFATE 25%		4,330.87	18
USA	BLUE BOOK	19181		763.41		
	MACHINERY AND EQUIP MAINT MAT	E	102647 QTY 2 INLINE FLOWMETER		763.41	18

SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 11/18/16

NAME	WARRANT NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
WATSON-MARLOW INC MISCELLANEOUS	19182	SI023111TAX SALES TAX-QTY 5 19MM BORE PVC TUBING SI023111 QTY 5 19MM BORE PVC TUBING	930.75	-81.00 1,017.75	18 18
WESTERN ENERGY SYSTEMS MACH & EQUIP MAINT SERVICES	19183	3680211 FINANCE CHARGE - WESTERN ENERGY	389.42	389.42	18
WESTIN ENGINEERING, INC. PROFESSIONAL SERVICES	19184	2999 10/1-10/28/2016 PROFESSIONAL SERVICES	325.00	325.00	18
WRA ENVIRONMENTAL CONSULTANTS CONTRUCTION-DESIGN	19185	201711627794 9/16 T.O.2015-03 BIOLOGICAL&PERMIT SVCS. 201711827795 9/16 T.O.2016-01 CONVEYANCE SYSTEM CEQA 201711827795 9/16 T.O.2016-01 CONVEYANCE SYSTEM CEQA <td>5,528.94 F F F F</td> <td>930.11 930.11 930.11 930.00 8.77 17.57 35.14 483.18 105.42 48.32 61.50 17.57 48.32 52.71</td> <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td>	5,528.94 F F F F	930.11 930.11 930.11 930.00 8.77 17.57 35.14 483.18 105.42 48.32 61.50 17.57 48.32 52.71	20 20 20 20 20 20 20 20 20 20 20 20 20 2

SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 11/18/16

NAME XEROX CORPORATION	WARRANT NUMBER 19186	INVOICE #/DESCRIPTION	AMOUNT 2,758.47	DETAIL	FUND
RENTAL /LEASES		86843764 11/2016 XEROX LEASE	•	257.71	18
		86843765 11/2016 XEROX LEASE		310.77	18
		86843766 11/2016 XEROX LEASE		279.49	18
		86843767 11/2016 XEROX LEASE		484.55	18
		86843768 11/2016 XEROX LEASE		975.95	18
		86936639 11/2016 XEROX LEASE		425.00	18
		590088700 XEROX LATE CHARGE - INV 086206354		25.00	18
7UN ZUN	19187		1,000.00		
CONTRACT SERV. (NON-MAINT.)		4001 WASTEWATER AWARENESS PERFORMANCE	-	1,000.00	18

TOTAL

\$1,291,813.72

SVCW WARRANT REGISTER

SVCW Warrant Register for period covering November 19, 2016 to December 16, 2016.

	SIL	SILICON VALLEY			CLE	RAN	WA	TER			
12-16-16	WAR	RA	N T	R	EG	3 I	S	ΤE	R		PAGE 9508
		F	UND	RECI	fb						
NAMB										FUND	AMOUNT
RETIREE HEALTH	INSUR. FD.									12	35,000.00
CAPITAL IMPROVE	MENT FUND									14	117,803.69
OPERATION										18	162,655.45
PLANT - CIP BON	D									20	923,329.06
TOTAL FOR APPROVAL										:	\$1,238,788.20

A 12/15/16

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 9488 THROUGH 9508 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 19249 THROUGH 19330 INCLUSIVE, TOTALING IN THE AMOUNT OF \$1,238,788.20, 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,

12 10/16 DATE CONTROLLER

12/19/2016

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SILICON VALLEY CLEAN WATER W A R R A N T R B G I S T E R 12/16/16

PAGE 9488

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
ACE AMERICAN INSURANCE COMPANY	19249	13,995.12		
CONSTADMIN. & LEGAL		1066818 W/C REIM-NOV 2016- D NEIL/D WILLIAMS	13,995.12	20
AIRGAS USA, LLC	19250	1,321.65		
SUPPLIES		9940464150 MAINTENANCE-INERT GAS	1,222.02	18
		9940464150 MAINTENANCE-INERT GAS	50.84	18
		9940464150 MAINTENANCE-INERT GAS	7.25	18
		9940464150 MAINTENANCE-INERT GAS	41.54	18
AON RISK INSURANCE SERVICES WE	19251	5,068.00		
CONSTADMIN. & LEGAL		680000060664 ADDL PREM-BR EXTEN 11/30-1/15/17 CIP8007	5,068.00	20
APPLEONE EMPLOYMENT SERVICES	19252	1,630.65		
PROFESSIONAL SERVICES		14286763 W/E 11/19/16 ACCT TEMP SVCS-WONG	1,133.69	18
		14299406 W/E 11/26/16 ACCT TEMP SVCS-WONG	496.96	18
AUTOMATED NETWORK CONTROLS	19253	1,327.40		
CONTRUCTION-DESIGN		1349 11/16 WETSIDE POWER SVCS	1,327.40	20
BANK OF NEW YORK MELLON, THE	19254	1,320.00		
CONSTADMIN. & LEGAL		2521987915 11/24/16-11/23/17 TRUSTEE FEE	1,320.00	20
BEECHER ENGINEERING	19255	11,972.00		
CONTRUCTION-DESIGN		111643 10/30-11/14/16 T.O. 2016-03 12KV PLANNING & CON	246.00	20
		111643 10/30-11/14/16 T.O. 2016-03 12KV PLANNING & CON	246.00	20
CONTRUCTION-DESIGN		111647 10/26-11/9/16 T.O. 2016-06 IT OUTAGE/POWER SURG	3,280.00	14
CONTRUCTION-DESIGN		111648 10/26/16 T.O.2016-02 FOOD WASTE DESIGN SVC	328.00	20
		111649 10/26-11/6/2016 T.O. 2016-07 RULE 21 INTERCONNE	656.00	20
		111651 10/27-11/15/16 T.O. 2016-04 WETSIDE REDUNDANT P	7,544.00	20
		111648CREDIT CREDIT-T.O. 2016-02 OVERPAYMENT	-328.00	20

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SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/16/16

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AN	MOUNT DETAIL	FUND
BROWN & CALDWELL	19256	28,52	24.75	
CONTRUCTION-DESIGN		11279592 9/30-10/27/16 T.O.2016-01 NUTRIENTS FOOD WAST	1,126.00	20
		11280303 9/30-10/27/16 T.O.2015-08 DIGESTER & THICKENE	1,333.50	20
		11280305 9/30-10/27/16 T.O.2015-06 PRIMARY SEDIMENTATI	4,773.25	20
		11280306 9/30-10/27/16 T.O.2015-07 RLS-CONCEPTUAL DEV-	15,235.75	20
		11280307 9/30-10/27-16 T.O.2016-04 WETSIDE REDUNDANT P	2,154.75	20
		11280308 9/30-11/17/16 T.O.2014-07 DRYING BED IMPROVEM	3,901.50	20
C H BULL COMPANY	19257	4	48.06	
MACHINERY AND EQUIP MAINT MA	re	11939271 RIDGID PIN, CHAIN, SCREW, ROLL	5.50	18
		11939271 RIDGID PIN, CHAIN, SCREW, ROLL	10.14	18
		11939271 RIDGID PIN, CHAIN, SCREW, ROLL	24.03	18
		11939271 RIDGID PIN, CHAIN, SCREW, ROLL	4.85	18
		11939271 RIDGID PIN, CHAIN, SCREW, ROLL	3.54	18
C.W.E.A TCP	19258	·	88.00	
MEMB. & MEET.		11022016 CWEA-PETER FONG GRADE II-ENVIRONMENTAL COMPLI	88.00	18
CALIFORNIA UNITED MECHANICAL, I	19259	2,65	96.45	
CONSTRUCTION - CONTRACTOR		32160 10/19-10/20/16 SVC CALL CHILLER ISSUE	2,696.45	20
CALPERS - FISCAL SERVICES DIVI	19260	35,00	00.00	
RETIREE MEDICAL PAYMENTS		12162016 12/16 PREFUNDING OPEB, FY16-17 CONTRIBUTION	35,000.00	12
CASCADE INTEGRATION & DEVELOPM	19261	5,12	25.00	
CONTRUCTION-DESIGN		1214 11/1-11/30/16 T.O.2016-01 SOLIDS PROCESSING AUTOM	1,125.00	20
		1214 11/1-11/30/16 T.O.2016-01 SOLIDS PROCESSING AUTOM	1,125.00	20
		1214 11/1-11/30/16 T.O.2016-01 SOLIDS PROCESSING AUTOM	1,125.00	20
PROFESSIONAL SERVICES		1213 11/16 SCADA SUPPORT	1,750.00	18

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	WARRANT						
NAME	NUMBER	INVOICE	#/DESCRIPTION		AMOUNT	DETAIL	FUND
CDM SMITH INC.	19262			29	,313.53		
CONTRUCTION-DESIGN		80562969	5/29-7/30/16 T.O.2015-04	HEADWORKS & SCREENIN		14,656.76	20
		80562969	5/29-7/30/16 T.O.2015-04	HEADWORKS & SCREENIN		14,656.77	20
CDW GOVERNMENT, INC.	19263				57.27		
MACHINERY AND EQUIP MAIN	T MATE	FZQ6313	TRIPP 15M FIBER			57.27	18

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SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/16/16

DETAIL FUND

WARRANT NAME NUMBER INVOICE #/DESCRIPTION AMOUNT COLLABORATIVE STRATEGIES CONSU 19264 31,582.80 CONTRUCTION-DESIGN 2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG CONTRUCTION-DESIGN 2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG CONTRUCTION-DESIGN 0/100/10 0/100/10 0.000/10 DEDUCT MG

31,582.80		
2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG	371.53	20
2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG	3,715.24	20
2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG	810.60	20
2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG	270.20	20
2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG	371.53	20
2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG	135.10	20
2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG	135.10	20
2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG	405.30	20
2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG	472.85	20
2608SV0916 9/1-9/29/16 T.O.2016-08 ENHANCED PROJECT MG	67.55	20
4608SV1116 10/27-11/22/16 T.O.2016-08 ENHANCED PROJECT	64.08	20
4608SV1116 10/27-11/22/16 T.O.2016-08 ENHANCED PROJECT	640.74	20
4608SV1116 10/27-11/22/16 T.O.2016-08 ENHANCED PROJECT	139.80	20
4608SV1116 10/27-11/22/16 T.O.2016-08 ENHANCED PROJECT	46.60	20
4608SV1116 10/27-11/22/16 T.O.2016-08 ENHANCED PROJECT	64.08	20
4608SV1116 10/27-11/22/16 T.O.2016-08 ENHANCED PROJECT	23.30	20
4608SV1116 10/27-11/22/16 T.O.2016-08 ENHANCED PROJECT	23.30	20
4608SV1116 10/27-11/22/16 T.O.2016-08 ENHANCED PROJECT	69.90	20
4608SV1116 10/27-11/22/16 T.O.2016-08 ENHANCED PROJECT	81.55	20
4608SV1116 10/27-11/22/16 T.O.2016-08 ENHANCED PROJECT	11.65	20
8501SV1016 9/30-10/27/16 T.O.2015-01 C#6006/7011 ACQUI	5,292.00	20
8501SV1016 9/30-10/27/16 T.O.2015-01 C#6006/7011 ACQUI	588.00	20
9501SV1116 10/28-11/22/16 T.O.2015-01 C#6006/7011 ACQU	2,079.00	20
9501SV1116 10/28-11/22/16 T.O.2015-01 C#6006/7011 ACQU	231.00	20
10601SV1116 10/28-11/22/16 T.O.2016-01 BELMONT FORCE M	2,205.00	20
10602SV1116 10/28-11/22/16 T.O.2016-02 REDWOOD CITY PU	3,465.00	20
10605SV1116 10/28-11/22/16 T.O.2016-05 REDWOOD CITY PU	5,040.00	20
10606SV1116 10/28-11/22/16 T.O.2016-06 MENLO PARK PUMP	2,730.00	20
91604SV1116 10/28-11/22/16 T.O.2016-04 CONVEYANCE SUPP	184.80	20
91604SV1116 10/28-11/22/16 T.O.2016-04 CONVEYANCE SUPP	1,848.00	20

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	WARRANT	·			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOU	INT DETAIL	FUND	
COLLABORATIVE STRATEGIES CONSU	19265	18,547	. 20		
CONTRUCTION-DESIGN		91604SV1116 10/28-11/22/16 T.O.2016-04 CONVEYANCE SUPP	403.20	20	
		91604SV1116 10/28-11/22/16 T.O.2016-04 CONVEYANCE SUPP	134.40	20	
		91604SV1116 10/28-11/22/16 T.O.2016-04 CONVEYANCE SUPP	184.80	20	
		91604SV1116 10/28-11/22/16 T.O.2016-04 CONVEYANCE SUPP	67.20	20	
		91604SV1116 10/28-11/22/16 T.O.2016-04 CONVEYANCE SUPP	67.20	20	
		91604SV1116 10/28-11/22/16 T.O.2016-04 CONVEYANCE SUPP	201.60	20	
		91604SV1116 10/28-11/22/16 T.O.2016-04 CONVEYANCE SUPP	235.20	20	•
		91604SV1116 10/28-11/22/16 T.O.2016-04 CONVEYANCE SUPP	33.60	20	
		10602SV1116M106 10/28-11/22/16 T.O.2016-03 INFLUENT CO	7,770.00	20	
		7602SV0816FINAL 08/16 T.O.2016-02 REDWOOD CITY PUMP ST	4,725.00	20	
		9602SV1016M1063 9/30-10/27/16 T.O.2016-02 REDWOOD CITY	4,725.00	20	
COUNTY OF SAN MATEO - AIRPORT	19266	97,300	.00		
CONSTADMIN. & LEGAL		12162016 1/17 PERMIT#5384 LEASE PAYMENT-SAN CARLOS AIR	97,300.00	20	
COVELLO GROUP INC., THE	19267	27,937	. 50		
CONSTRUCTION-CONTRACTOR		201303436 10/16 T.O.2013-02 GLOBAL CM CIP PROJECTS	13,562.50	20	
		201303437 11/16 T.O.2013-02 GLOBAL CM CIP PROJECTS	14,375.00	20	
CRYSTAL JANITORIAL SERVICE, IN	19268	3,820	.00		
CONTRACT SERV. (NON-MAINT.)		28028 12/2016 JANITOR SVC	3,820.00	18	
D.W. NICHOLSON CORPORATION	19269	79,685	. 29		
CONSTRUCTION-CONTRACTOR		3POM10729 11/16 PRG PMT#3 UPS SYSTEM REPLACEMENT CIP#2	79,685.29	14	

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMON	JNT DETAIL	FUND
DAVID J POWERS AND ASSOCIATES,	19270	52,584	. 03	
CONTRUCTION-DESIGN		2016017 10/16 T.O.2016-01 CIP#9158	471.00	20
		20150211 10/16 T.O.2015-02 CIP#6006	2,866.22	20
		20150211 10/16 T.O.2015-02 CIP#6006	28,662.17	20
		20150211 10/16 T.O.2015-02 CIP#6006	6,253.56	20
		20150211 10/16 T.O.2015-02 CIP#6006	2,084.52	20
		20150211 10/16 T.O.2015-02 CIP#6006	2,866.22	20
		20150211 10/16 T.O.2015-02 CIP#6006	1,042.26	20
		20150211 10/16 T.O.2015-02 CIP#6006	1,042.26	20
		20150211 10/16 T.O.2015-02 CIP#6006	3,126.78	20
		20150211 10/16 T.O.2015-02 CIP#6006	3,647.91	20
		20150211 10/16 T.O.2015-02 CIP#6006	521.13	20
DKF SOLUTIONS GROUP, LLC	19271	450	. 00	
CONTRACT SERV. (NON-MAINT.)		12812 12/2016 MY SAFETY OFFICER MONTHLY SUBSCRIPTION F	450.00	18
DYNAMIC BUILDING SYSTEMS, INC.	19272	9,300	.00	
CONSTRUCTION-CONTRACTOR		568240 07/16 ENGR/ISO-BASE/CUTOUTS	9,300.00	14
ECOM AMERICA LTD.	19273	1,859	. 09	
MISCELLANEOUS		414211TAX SALES TAX LIABILITY-CALIBRATION KIT	-165.15	18
SUPPLIES		414211 KIT, CALIBRATION GAS, COGEN EMMISIONS	2,024.24	18
EDGLEY, KIP D.	19274	17,887	.14	
CONTRUCTION-DESIGN		1027SV1611 10/31-11/27/16 LABOR IN CA	10,314.00	20
		1127SV1611A 10/31-11/27/16 LABOR OUTSIDE CA	4,725.00	20
		1127SV1611B REIMB 10/31-11/27/16 TRAVEL EXPENSE	3,570.12	20
MISCELLANEOUS		1127SV1611C 7% NON RESIDENT W/H 10/31-11/27/16	-721.98	20
ENVIRO-CARE INC	19275	5,450	.00	
CONSTRUCTION-CONTRACTOR	20000	PILOT2153038 10/7-11/6/16 PILOT 215303-30 DAYS TEST FE	5,450.00	20

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12/16/16

	AMOUNT	DETAIL	FUND
	1,278.36		
CHEMICALS		1,278.36	18
	2,246.24		
AGED RESTOCK		800.79	18
ALF SLOT STRUT CHANNEL		758.48	18

SUPPLIES	811288 LAB SUPPLIES, CHEMICALS	1,278.36	18
FASTENAL COMPANY 1927	2,246.24	ł	
SUPPLIES	CASAA50331 VENDOR MANAGED RESTOCK	800.79	18
MISCELLANEOUS	CASAA50340 QTY 7 SS HALF SLOT STRUT CHANNEL	758.48	18
SMALL TOOLS	CASAA50341 4PC INTERNAL PIPE WRENCH SET	63.51	18
SUPPLIES	CASAA50364 VENDOR MANAGED RESTOCK	218.86	18
	CASAA50421 VENDOR MANAGED RESTOCK	404.60	18
FINTA ENTERPRISES, INC 1927	679.25	5	
CONTRACT SERV. (NON-MAINT.)	50811 DRYING BED HAULING AND DISPOSAL	679.25	18
FIVESKY 1927	42,379.52	2	
PROFESSIONAL SERVICES	FSUSIN5703 ENDPOINT PROTECTION-VIRTUAL DESKTOP/WORKSTA	19,219.20	18
	FSUSIN5704 ENDPOINT SECURITY SUPPORT	23,160.32	18
FREYER & LAURETA, INC 1928	21,738.46	5	
CONTRUCTION-DESIGN	16411 10/16 T.O.2014-01 CIP#6004/9160/9192/9221	618.39	20
	16411 10/16 T.O.2014-01 CIP#6004/9160/9192/9221	618.39	20
	16411 10/16 T.O.2014-01 CIP#6004/9160/9192/9221	618.39	20
	16411 10/16 T.O.2014-01 CIP#6004/9160/9192/9221	618.39	20
	16413 10/16 T.O.2015-05 CIP#6004 FLOW EQUALIZATION FAC	4,895.00	20
	16413 10/16 T.O.2015-05 CIP#6004 FLOW EQUALIZATION FAC	4,895.00	20
CONSTRUCTION-CONTRACTOR	16432 10/16 T.O.2016-03 PUMP STATION VALVE REPLACEMENT	4,737.45	14
	16432 10/16 T.O.2016-03 PUMP STATION VALVE REPLACEMENT	4,737.45	14
GRAINGER 1928	1 380.56	5	
MACHINERY AND EQUIP MAINT MATE	9284344836 QTY 2 BOLT ON CIRCUIT BREAKER	79.31	18
MISCELLANEOUS	9291265636 QTY 3 INLINE CORD SET	206.53	18
SUPPLIES	9295021373 QTY 5 YELLOW PAPER TAG	94.72	18

INVOICE #/DESCRIPTION

WARRANT NUMBER

19276

NAME

ENVIRONMENTAL RESOURCE ASSOCIA

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	WARRANT				
NAME	NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
GREENVIEW DATA, INC.	19282		1,925.00		
CONTRACT SERV. (NON-MAINT.)		GY272106 12/20/2016-12/20/2017 ENTERPRISE ANTI VIRUS	S	1,925.00	18
HACH COMPANY	19283		226.07		
SUPPLIES		10213543 DISSOLVED OXYGEN 3 PWD		226.07	18
HARRINGTON INDUST PLASTICS	19284		136.37		
MACHINERY AND EQUIP MAINT MAT	Е	3K2004 QTY 2 FLOWMETER		136.37	18
HOME DEPOT CREDIT SERVICES	19285		20.00		
SUPPLIES		1128167388 11/24/16 LATE FEE		20.00	18
HOPKINS TECHNICAL PRODUCTS, IN	19286		4,075.86		
CONSTRUCTION - CONTRACTOR		3616301381 QTY 2 SOLUTION TUBE		3,234.60	20
		3616301458 QTY 2 FLEXIBLE TUBING		409.73	20
		3616301458 QTY 2 FLEXIBLE TUBING		431.53	20
IDEXX DISTRIBUTION, INC	19287		342.76		
SUPPLIES		3009924349 QTY 2 GAMMA IRRAD COLILERT		342.76	18
JENTECH SERVICES	19288		5,912.80		
MACH & EQUIP MAINT SERVICES		2219 11/29-12/9/16 INSTRUMENT CALIBRATION		285.00	18
		2219 11/29-12/9/16 INSTRUMENT CALIBRATION		3,705.00	18
		2219 11/29-12/9/16 INSTRUMENT CALIBRATION		1,922.80	18
KELLER CANYON LANDFILL CO.	19289		820.43		
CONTRACT SERV. (NON-MAINT.)		4212000024997 DRYING BED HAULING AND DISPOSAL		820.43	18
KEN GRADY COMPANY, INC	19290		702.16		
MACHINERY AND EQUIP MAINT MAT	'E	2313 QTY 2 ATI SO3 SENSOR		702.16	18

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SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/16/16

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
LIEBERT CASSIDY WHITMORE	19291	19,080.00		
PROFESSIONAL SERVICES		1428643 LEGAL-WAGE/HOUR AUDIT FLSA-9/2016	19,080.00	18
MCMASTER-CARR SUPPLY CO.	19292	104.36		
MISCELLANEOUS		89499297 QTY 1 LIFE PRESERVER RING	104.36	18
MENLO PARK, CITY OF	19293	268.25		
UTILITIES		1123201635494 9/22/16-10/21/16 MPPS WATER SERVICE	49.48	18
		1123201635494 9/22/16-10/21/16 MPPS WATER SERVICE	81.76	18
		1216201635494 10/21-11/18/2016 MPPS WATER	137.01	18
MONTEREY MECHANICAL CO.	19294	277,123.68		
CONSTRUCTION-CONTRACTOR		4524502 9/15-10/15/16 RETENTION PMT COGEN ROOM FAN MOD	4,077.35	20
		30POM10437 9/1-10/31/16 PROGRESS PMT 30 SOLIDS PROCESS	91,015.44	20
		30POM10437 9/1-10/31/16 PROGRESS PMT 30 SOLIDS PROCESS	91,015.44	20
		30POM10437 9/1-10/31/16 PROGRESS PMT 30 SOLIDS PROCESS	91,015.45	20
NAVIA BENEFIT SOLUTIONS	19295	180.00		
ADMINISTRATIVE EXPENSES		10066818 NAVIA PARTICIPANT FEE	180.00	18
NEWARK ELEMENT14	19296	455.95		
SUPPLIES		28467604 SHIELDED MULTICONDUCTOR CABLE	455.95	18
NEXLEVEL INFORMATION TECHNOLOG	19297	5,025.00		
CONSTADMIN. & LEGAL		20161117 11/16 PO#M10690 ERP PROCUREMENT ENGAGEMENT	5,025.00	20
OFFICE DEPOT	19298	471.99		
OFFICE SUPPLIES		88170584001 OFFICE SUPPLIES	252.55	18
		879830205001 OFFICE SUPPLIES	71.00	18
		880515465001 OFFICE SUPPLIES	58.74	18
		881705344001 OFFICE SUPPLIES	16.34	18
I		883823012001 OFFICE SUPPLIES	73.36	18

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SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/16/16

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	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
OGASAWARA LANDSCAPE MAINTENANC	19299	6,265.00		
CONTRACT SERV. (NON-MAINT.)		23678 11/2016 LANDSCAPE SERVICES	2,500.00	18
		23695 11/2016 LANDSCAPING SERVICES-WEED REMOVAL/BEDDIN	3,765.00	18
PACE SUPPLY CORP	19300	91.68		
MACHINERY AND EQUIP MAINT MAT	Е	93602319 GAS CYLINDER, SOLDER, ADAPTER	2.70	18
		93602319 GAS CYLINDER, SOLDER, ADAPTER	3.26	18
		93602319 GAS CYLINDER, SOLDER, ADAPTER	31.76	18
		93602319 GAS CYLINDER, SOLDER, ADAPTER	53.96	18
PENINSULA TRUCK REPAIR, INC.	19301	24,008.26		
MACH & EQUIP MAINT SERVICES		2963 TRUCK REPAIR	24,008.26	18
PETTY CASH - SILICON VALLEY CL	19302	969.22		
SUPPLIES		12162016 PETTY CASH DISBURSEMENTS	82.67	18
PROFESSIONAL SERVICES		12162016 PETTY CASH DISBURSEMENTS	28.93	18
TRAINING		12162016 PETTY CASH DISBURSEMENTS	39.70	18
SUPPLIES		12162016 PETTY CASH DISBURSEMENTS	13.70	18
		12162016 PETTY CASH DISBURSEMENTS	50.41	18
TRAINING		12162016 PETTY CASH DISBURSEMENTS	20.00	18
SUPPLIES		12162016 PETTY CASH DISBURSEMENTS	212.68	18
		12162016 PETTY CASH DISBURSEMENTS	122.50	18
TRAINING		12162016 PETTY CASH DISBURSEMENTS	62.00	18
MACHINERY AND EQUIP MAINT MAT	Е	12162016 PETTY CASH DISBURSEMENTS	31.20	18
SMALL TOOLS		12162016 PETTY CASH DISBURSEMENTS	75.76	18
TRAINING		12162016 PETTY CASH DISBURSEMENTS	52.17	18
SUPPLIES		12162016 PETTY CASH DISBURSEMENTS	72.56	18
		12162016 PETTY CASH DISBURSEMENTS	43.58	18
TRAINING		12162016 PETTY CASH DISBURSEMENTS	12.00	18
SUPPLIES		12162016 PETTY CASH DISBURSEMENTS	49.36	18

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	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
POWER ENGINEERING CONSTRUCTION	19303	121,368.00		
CONSTRUCTION-CONTRACTOR		154507 4/3-7/9/16 PROGRESS PYT 7, SVCW BIOFORCE CONCRE	117,778.00	20
		1015POM10674 10/20/16 RETENTION RELEASE CIP#9152 RCPS	3,590.00	20
PRE EMPLOYMENT, INC.	19304	46.50		
PROFESSIONAL SERVICES		31288 BACKGROUND CHECK-SABRINA GILHAM	46.50	18
R & B COMPANY	19305	1,361.96		
MACHINERY AND EOUIP MAINT MAT	Е	S1607587001 QTY 1 IP SADDLE	110.93	18
		S1608686001 STAINLESS STEEL TUBING	274.35	18
MISCELLANEOUS		S1611735001 QTY 4 GASKET, FIBER NON ASBESTOS	95.02	18
MACHINERY AND EQUIP MAINT MAT	E	S1611850001 QTY 2 CLEAR PVC PIPE, SCH40	367.58	18
		S1612564001 QTY 16 NON ASB GASKET	107.82	18
MISCELLANEOUS		S1612564001 QTY 16 NON ASB GASKET	179.71	18
MACHINERY AND EQUIP MAINT MAT	Е	S1613138001 FLANGES, BUSHINGS, PVC	179.44	18
		S1613138001 FLANGES, BUSHINGS, PVC	4.67	18
		S1613138001 FLANGES, BUSHINGS, PVC	1.99	18
		S1613138001 FLANGES, BUSHINGS, PVC	3.84	18
		S1613138001 FLANGES, BUSHINGS, PVC	3.48	18
		S1613138001 FLANGES, BUSHINGS, PVC	33.13	18
R-SOMARED ENGINEERING. INC.	19306	2,908.31		
MISCELLANEOUS		117416 RETAINER GEAR JOINT, ROTOR	202.47	18
		117416 RETAINER GEAR JOINT, ROTOR	2,705.84	18
REDWOOD CITY, CITY OF - WATER	19307	1,073.09		
UTILITIES		1216201632690 8/22-10/22/2016 GREENDALE WATER	392.20	18
		1216201632690 8/22-10/22/2016 GREENDALE WATER	680.89	18
RKI INSTRUMENTS INC.	19308	615.01		
SUPPLIES		311089 CYLINDER, H2S 5 PPM IN N2	615.01	18

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SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/16/16

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
ROYAL WHOLESALE ELECTRIC	19309	4,861.40		
SUPPLIES		7003621547 QTY 5000 PVC SHIELD	1,351.60	18
CONSTRUCTION-CONTRACTOR		7003621547 QTY 5000 PVC SHIELD	675.80	20
MISCELLANEOUS		7003621547 QTY 5000 PVC SHIELD	1,351.60	18
CONSTRUCTION-CONTRACTOR		7003621958 TINNED COPPER WIRE	185.30	20
		7003621958 TINNED COPPER WIRE	555.90	20
		7003621958 TINNED COPPER WIRE	185.30	20
		7003621958 TINNED COPPER WIRE	185.30	20
		7003621958 TINNED COPPER WIRE	185.30	20
		7003622044 TINNED COPPER WIRE	185.30	20
S & S SUPPLIES AND SOLUTIONS	19310	14.58		
MISCELLANEOUS		S2853854005 FREIGHT CHARGES FOR S2853854-001 AND 003	14.58	18
SAN MATEO DAILY JOURNAL	19311	1,827.00		
CONSTADMIN. & LEGAL		2699898 11/29/16 LEGAL AD	1,827.00	20
SANDUL, DUANE	19312	1,280.00		
CONTRUCTION-DESIGN		113016INV11 11/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRA	25.60	20
		113016INV11 11/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRA	70.40	20
		113016INV11 11/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRA	704.00	20
		113016INV11 11/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRA	153.60	20
		113016INV11 11/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRA	51.20	20
		113016INV11 11/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRA	70.40	20
	•	113016INV11 11/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRA	25.60	20
		113016INV11 11/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRA	76.80	20
		113016INV11 11/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRA	89.60	20
		113016INV11 11/16 T.O.2016-01 CONVEYANCE SYSTEM PROGRA	12.80	20
SILICON VALLEY CLEAN WATER (EE	19313	100.00		
SUPPLIES		12162016 01/17 ANNIVERSARY EARNED	100.00	18

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	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
SILICON VALLEY CLEAN WATER (SA	19314	1,750.00		
ADMINISTRATIVE EXPENSES		12162016 1/17 SAFETY INCENTIVE	1,750.00	18
STATE WATER RESOURCES CONTROL	19315	230.00		
TRAINING		12162016 SWRCB LAWRENCE BURNELL GRADE II OPERATOR CERT	230.00	18

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SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/16/16

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOU	INT DETAIL	FUND
TANNER PACIFIC, INC.	19316	112,649	.25	
CONSTRUCTION-CONTRACTOR		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	450.00	20
CONTRUCTION-DESIGN		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	612.00	20
CONSTRUCTION-CONTRACTOR		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	2,396.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	4,383.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	9,345.40	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	98.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	328.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	5,298.93	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	98.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	98.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	98.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	15,852.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	3,596.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	7,973.52	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	20,309.42	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	98.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	980.00	20
		21696 11/13-11/26/16 T.O.2016-01 VARIOUS CONSTRUCTION	500.00	20
CONSTRUCTION-CONSTRUCTION MG	мт	21697 11/13-11/26/16 T.O.2016-04 CONSTRUCTION ADVISORY	5,122.00	14
		21698 10/23-11/26/16 T.O.2016-06 CONSTRU MGMT FOR SAN	3,324.50	14
CONSTRUCTION-CONTRACTOR		216102 11/27-12/3/16 T.O.2016-01 VARIOUS CONSTRUCTION	250.00	20
		216102 11/27-12/3/16 T.O.2016-01 VARIOUS CONSTRUCTION	2,631.00	20
		216102 11/27-12/3/16 T.O.2016-01 VARIOUS CONSTRUCTION	504.00	20
		216102 11/27-12/3/16 T.O.2016-01 VARIOUS CONSTRUCTION	264.00	20
		216102 11/27-12/3/16 T.O.2016-01 VARIOUS CONSTRUCTION	2,430.00	20
		216102 11/27-12/3/16 T.O.2016-01 VARIOUS CONSTRUCTION	4,700.00	20
		216102 11/27-12/3/16 T.O.2016-01 VARIOUS CONSTRUCTION	10,405.48	20
		216102 11/27-12/3/16 T.O.2016-01 VARIOUS CONSTRUCTION	7,620.00	20
		216102 11/27-12/3/16 T.O.2016-01 VARIOUS CONSTRUCTION	2,492.00	20
		216102 11/27-12/3/16 T.O.2016-01 VARIOUS CONSTRUCTION	392.00	20

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	WARRANT							
NAME	NUMBER	INVOICE	#/DESCRIPTION			AMOUNT	DETAIL	FUND
TANNER PACIFIC, INC.	19317				18	,033.00		
CONSTRUCTION-CONTRACTOR		216102	11/27-12/3/16	T.O.2016-01	VARIOUS CONSTRUCTION		884.00	20
		216102	11/27-12/3/16	T.O.2016-01	VARIOUS CONSTRUCTION		9,532.00	20
CONSTRUCTION-CONSTRUCTION M	1GMT	216103	11/27-12/3/16	T.O.2016-04	CONSTRUCTION ADVISORY		4,235.00	14
		216104	11/27-12/3/16	T.O.2016-06	CONSTRU MGMT FOR SAN		3,382.00	14
THOMAS FISH CO.	19318					250.00		
SUPPLIES		21120	QTY 100 RAINBOW	TROUT			125.00	18
		21241	QTY 110 RAINBOW	TROUT			125.00	18

WARRANT INVOICE #/DESCRIPTION AMOUNT DETAIL FUND NUMBER NAME 3,913.02 U.S. BANK CORPORATE PAYMENT SY 19319 SMALL TOOLS 11222016DC TIRE GAUGE/DIAL GUAGE 20.68 18 446.90 18 11222016IS HARDHAT LINERS - SAFETY SUPPLIES 11222016JF MEDIA REVERSIBLE DOOR REFRIF AND FREEZER 1. 84.48 18 SMALL TOOLS FASTRAK RELOAD - 10-28-16 160.00 18 SUPPLIES 11222016LB 11222016MA CALTRAIN - PARKING - WIFIA MEETING SF 11-14 11.50 18 MEMB. & MEET. KEN KERRI COURSE MANUAL-PRETREATMENT COURSE 179.18 18 SUPPLIES 11222016ND 100.00 18 11222016BB1 MICROSOFT SOFTWARE 11222016BB2 SAP REPORT SOFTWARE FOR LAB 495.00 18 11222016DC1 BUS MTG. BELMONT CITY COUNCIL 10-25-16 150.00 18 MEMB. & MEET. 11222016DC2 PERSONNEL TRAINING LUNCH-11-1-16 30.00 18 TRAINING 11222016DC3 BUS MTG.-ELECT/AUTO PLANNING 11-8-16 60.00 18 PROFESSIONAL SERVICES 11222016DC4 FUEL 39.00 18 SUPPLIES 78.50 18 11222016DC5 FUEL 11222016DC6 FUEL 83.00 18 11222016DC7 FUEL 69.00 18 550.00 18 TRAINING 11222016EM1 REG-2016 NACE CONF - BILL BOWLEN 172.00 18 11222016EM2 CWEA MEMB 2016-17 - F GUZMAN MEMB. & MEET. 172.00 CWEA MEMB 2016-17 - N MURPHY 18 11222016EM3 11222016EM4 CWEA MEMB-2016-17/CWEA TCP NEWAL-L CASTELL 172.00 18 11222016EM5 CWEA MEMB-2016-17/CWEA TCP NEWAL-L CASTELL 88.00 18 172.00 18 11222016EM6 CWEA MEMB-2016-17/CWEA TCP-SANDHU 93.00 18 11222016EM7 CWEA MEMB-2016-17/CWEA TCP-SANDHU 93.00 18 11222016EM9 CWEA MEMB 2016-17/CWEA TCP- M CHANDLER 120.10 18 11222016IS2 BAGELS - SNACKS WITH DAN 11-2-16 SUPPLIES 110.00 18 11222016IS3 SCMFO MEMBERSHIP RENEWAL 2017 - CINDY HUI MEMB. & MEET. 11222016IS4 CONVEYANCE SYST SUB-COMM MTG 11-8-16 - REF 13.99 18 SUPPLIES 11222016IS5 COMMISSION MTG REFRESHMENTS - 11-10-16 26.41 18 18 11222016IS6 AMERICAN PAYROLL MEM 2017-C HUI 219.00 MEMB. & MEET. 88.28 18 11222016IS7 COFFEE -12-30.5 OZ CANS SUPPLIES 11222016JD3 11/4/16 CREDIT-AMERICRAFT MANUFACTURING-QT -184.00 18

WARRANT

NUMBER INVOICE #/DESCRIPTION AMOUNT DETAIL FUND NAME 6,583.37 19320 U.S. BANK CORPORATE PAYMENT SY 11222016ME8 CWEA MEMB 2016-17/CWEA TCP- M CHANDLER 172.00 18 MEMB. & MEET. 11222016RH1 CWEA GRADE 2 LAB EXAM APP FEE - TIFFANY MA 175.00 18 TRAINING 11222016RH2 HOTEL -ICP TRAINING - GRACE CALANOG 11-9-1 467.58 18 CONF. & TRAV. 11222016TH1 CONFERENCE DISCUSSIONS 55.65 18 MEMB. & MEET. 10.00 18 11222016TH2 FUEL SUPPLIES 11222016TH3 PARKING - FINANCE MEETING 11-14-16 10.00 18 MEMB, & MEET. 172.00 18 11222016EM10 CWEA MEMB 2016-17 - T CHEN 11222016EM11 CWEA MEMB 2016-17 - DEGUZMAN 172.00 18 11222016ISTAX SALES TAX-HARDHAT LINERS -36.90 18 MISCELLANEOUS 11202016DM5TAX SALES TAX LIABILITY -65.81 18 11222016DM2TAX SALES TAX LIABILITY -4.68 18 11222016DM3TAX SALES TAX LIABILITY -172.69 18 -22.50 18 11222016JD2TAX SALES TAX-10/26/16 APEXEGROUP-CABLES 46.51 18 MACHINERY AND EOUIP MAINT MATE 11222016DM1 10/24/16 HOME DEPOT-BUCKET 11222016DM2 10/25/16 AMAZON-SYRINGE-5ML, POLYMER 56.64 18 11222016DM3 10/25/16 OFI TESTING-CAPILLARY SUCTION TIM 1,503.96 18 415.94 18 11222016DM3 10/25/16 OFI TESTING-CAPILLARY SUCTION TIM MISCELLANEOUS 11222016DM3 10/25/16 OFI TESTING-CAPILLARY SUCTION TIM 207.97 18 MACHINERY AND EOUIP MAINT MATE 11222016DM4 10/26/16 AUTOZONE-BRAKE LIGHT 43.55 18 697.03 11222016DM5 10/28/16 INDUSTRIALZONE-SIEMENS-PROGRAMMER 18 11222016DM5 10/28/16 INDUSTRIALZONE-SIEMENS-PROGRAMMER 99.99 18 408.72 18 11222016DM6 11/3/16 AMAZON-RAIN GEAR MISCELLANEOUS 11222016DM7 11/3/16 AMAZON-RAIN GEAR 636.96 18 11222016DM8 11/10/16 EAST BAY MOTORSPORTS-RIMS-TIRES-P 282.23 18 MACHINERY AND EQUIP MAINT MATE 257.24 18 11222016DM9 11/15/16 HOME DEPOT-REFRIGERATOR-LAB SMALL TOOLS 11222016JD1 10/24/16 AMAZON.COM-LABEL MAKER KIT 435.99 18 SUPPLIES 11222016JD2 10/26/16 APEXEGROUP-VULCAN CABLES 163.50 18 MISCELLANEOUS 11222016JD2 10/26/16 APEXEGROUP-VULCAN CABLES 81.75 18 MACHINERY AND EOUIP MAINT MATE 27.25 18 11222016JD2 10/26/16 APEXEGROUP-VULCAN CABLES 11222016JD4 11/14/16 ENGRAVING MACHINES-ACRYLIC FULL S 286.49 18
SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/16/16

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	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
U.S. BANK CORPORATE PAYMENT SY	19321	34.20		
MACHINERY AND EQUIP MAINT MAT	Έ	11222016JD4 11/14/16 ENGRAVING MACHINES-ACRYLIC FULL S	27.67	18
SUPPLIES		11222016JD5 11/18/16 ORCHARD SUPPLY-COTTON SASH CORDS	6.53	18
US POSTAL SERVICE (POSTAGE-BY-	19322	300.00		
OFFICE SUPPLIES		12152016 POSTAGE REFILL- A/C 18400358	300.00	18
WALLEY OTL COMPANY	19323	16.241.98		
UTILITIES	19920	851109 OTY 3500 DYED DIESEL	8,120.99	18
UTIDITES		851110 OTY 3500 DYED DIESEL	8,120.99	18
VALLEY OIL COMPANY (VEHICLE FU	19324	1,282.58		
SUPPLIES		431443 10/16-10/31/2016 VEHICLE FUEL	649.71	18
		434273 11/1-11/15/2016 VEHICLE FUEL	632.87	18
VWR INTERNATIONAL, LLC	19325	982.78		
SUPPLIES		8046387037 QTY 3 BEAKER	39.02	18
		8046387037 QTY 3 BEAKER	39.02	18
		8046387037 QTY 3 BEAKER	39.02	18
		8046873960 BUFFER, NITRILE GLOVE, LAURYL TRYPTOSE BROT	49.29	18
		8046873960 BUFFER, NITRILE GLOVE, LAURYL TRYPTOSE BROT	76.30	18
		8046873960 BUFFER, NITRILE GLOVE, LAURYL TRYPTOSE BROT	192.08	18
		8046879759 QTY 1 SPILLSOLV MERCURY KIT	216.43	18
		8046904223 QTY 2 AMBER GLASS WIDE MOUTH JAR	161.95	18
		8046969345 QTY 1 BROMOTHYMOL BLUE, QTY 5 TIMER, QTY 1	116.14	18
		8046969345 QTY 1 BROMOTHYMOL BLUE, QTY 5 TIMER, QTY 1	13.53	18
		8046969345 QTY 1 BROMOTHYMOL BLUE, QTY 5 TIMER, QTY 1	40.00	18
	19326	45.00		
UTILITIES		1117163991 REIMB 10/18-11/17/16 AT&T CHARGES	45.00	18

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	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUN	T DETAIL	FUND
WHITLEY, BURCHETT AND ASSOCIAT	19327	34,266.0	4	
CONSTADMIN. & LEGAL		1629 10/16 T.O.2016-01 SRF FINANCIAL SVCS CIP#9158	6,439.50	20
CONTRUCTION-DESIGN		1643 10/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	1,101.81	20
		1643 10/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	3,305.43	20
		1643 10/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	1,514.99	20
		1643 10/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	15,149.91	20
		1643 10/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	275.45	20
		1643 10/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	550.91	20
		1643 10/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	1,652.72	20
		1643 10/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	550.91	20
		1643 10/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	1,514.99	20
		1643 10/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	1,928.17	20
		14416 07/2016-10/2016 T.O.2014-04 DEWATERING IMPROVEMT	281.25	20
WRA ENVIRONMENTAL CONSULTANTS	19328	3,722.0	5	
CONTRUCTION-DESIGN		11 10/16 T.O.2015-03 CONVEYANCE SYSTEM CIP#6006	402.21	20
		11 10/16 T.O.2015-03 CONVEYANCE SYSTEM CIP#6006	402.21	20
		11 10/16 T.O.2015-03 CONVEYANCE SYSTEM CIP#6006	402.21	20
		11 10/16 T.O.2015-03 CONVEYANCE SYSTEM CIP#6006	402.22	20
		11 10/16 T.O.2015-03 CONVEYANCE SYSTEM CIP#6006	402.22	20
		1129166 10/16 T.O.2016-01 CONVEYANCE SYSTEM CIP#6006	205.32	20
		1129166 10/16 T.O.2016-01 CONVEYANCE SYSTEM CIP#6006	94.10	20
		1129166 10/16 T.O.2016-01 CONVEYANCE SYSTEM CIP#6006	17.11	20
		1129166 10/16 T.O.2016-01 CONVEYANCE SYSTEM CIP#6006	119.77	20
		1129166 10/16 T.O.2016-01 CONVEYANCE SYSTEM CIP#6006	941.04	20
		1129166 10/16 T.O.2016-01 CONVEYANCE SYSTEM CIP#6006	34.22	20
		1129166 10/16 T.O.2016-01 CONVEYANCE SYSTEM CIP#6006	68.44	20
		1129166 10/16 T.O.2016-01 CONVEYANCE SYSTEM CIP#6006	94.10	20
		1129166 10/16 T.O.2016-01 CONVEYANCE SYSTEM CIP#6006	34.22	20
		1129166 10/16 T.O.2016-01 CONVEYANCE SYSTEM CIP#6006	102.66	20

4002 11/22/16-11/29/16 WASTEWATER AWARENESS PERFORMANC

PAGE 9507

WARRANT INVOICE #/DESCRIPTION AMOUNT DETAIL FUND NUMBER NAME 750.92 YSI INC. 19329 SUPPLIES 668021 QTY 1 BOD PROBE 750.92 18 1,500.00 ZUN ZUN 19330

CONTRACT SERV. (NON-MAINT.)

•

1,500.00 18

TOTAL

\$1,238,788.20 2

SVCW WARRANT REGISTER

SVCW Warrant Register dated November 30, 2016 for Retiree Health.

		S	SIL	IC	ON	VAI	LEY	C	LE	AN	W	ATI	ER			
11-30-16	W	A	R	R	A	NT	R	E	G	I	s	т	Е	R		PAGE 9454
					F	UND	REC.	AP								
NAME															FUND	AMOUNT
RETIREE HEALTH INSU	JR.	I	FD.												12	24,078.82
TOTAL FOR APPROVAL																\$24,078.82

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 9450 THROUGH 9454 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 19055 THROUGH 19091 INCLUSIVE, TOTALING IN THE AMOUNT OF \$24,078.82, 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,

11,21,16 DATE ROLLER

MG 12/1/2016

116/16



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VOUCHER	ACCOUNT NUMBER	DESCRIPTION	VENDOR	PO NO	TOTAL AMOUNT	REGISTER	CHECK DATE		CHECK	APPROVED
VOUCHER										
161921	12 6132 35	12/16 RETIREE HEALTH PREMIUM	22503		\$1,125.62	11/30/16	11-30-16	19063	\$1,125.62	11-30-16
161922	12 6132 35	12/16 RETIREE HEALTH PREMIUM	10025		\$469.46	11/30/16	11-30-16	19064	\$469.46	11-30-16
161023	12 6132 35	REFUND 12/16 PETTREE HEALTH PREMIUM	11305		\$621.47	11/30/16	11-30-16	19065	\$621.47	11-30-16
101925	12 0152 55	REFUND	11909			11, 50, 10	11 90 10	25005	••==•	
161924	12 6132 35	12/16 RETIREE HEALTH PREMIUM	19730		\$1,367.94	11/30/16	11-30-16	19055	\$1,367.94	11-30-16
161925	12 6132 35	REFUND 12/16 RETTREE HEALTH PREMIUM	21654		\$172.23	11/30/16	11-30-16	19066	\$172.23	11-30-16
101923	12 0152 55	REFUND	22051		\$17175	, ,			+=	
161926	12 6132 35	12/16 RETIREE HEALTH PREMIUM	10063		\$918.70	11/30/16	11-30-16	19067	\$918.70	11-30-16
161927	12 6132 35	REFUND 12/16 RETTREE HEALTH PREMIUM	10077		\$283.04	11/30/16	11-30-16	19068	\$283.04	11-30-16
101327	12 0192 99	REFUND			•205101	, ,				
161928	12 6132 35	12/16 RETIREE HEALTH PREMIUM	11309		\$621.47	11/30/16	11-30-16	19056	\$621.47	11-30-16
161070	12 6132 35	REFUND	21965		\$172.23	11/30/16	11-30-16	19069	\$172.23	11-30-16
101929	12 0152 55	REFUND	22505		42.2.25	 , , , , , _,		20000		
161930	12 6132 35	12/16 RETIREE HEALTH PREMIUM	23018		\$808.09	11/30/16	11-30-16	19057	\$808.09	11-30-16
161031	12 6132 35	REFUND	22811		\$469.46	11/30/16	11-30-16	19070	\$469.46	11-30-16
TOTAL	12 0132 33	REFUND	LLUII		2105110	11, 50, 10	11 50 10	25010	••••••••	11 50 10
161932	12 6132 35	12/16 RETIREE HEALTH PREMIUM	20891		\$621.47	11/30/16	11-30-16	19071	\$621.47	11-30-16
161077	12 6132 35	REFUND	22685		\$172.23	11/30/16	11-30-16	19072	\$172.23	11-30-16
101933	12 0132 33	REFUND	22005		4212125	11, 50, 10	22 50 20	20072	<i></i>	
161934	12 6132 35	12/16 RETIREE HEALTH PREMIUM	11470		\$1,685.87	11/30/16	11-30-16	19073	\$1,685.87	11-30-16
161935	12 6132 35	REFUND 12/16 RETTREE HEALTH PREMIUM	11314		\$469.46	11/30/16	11-30-16	19074	\$469.46	11-30-16
101555		REFUND				,,			••••••	
161936	12 6132 35	12/16 RETIREE HEALTH PREMIUM	22146		\$1,367.94	11/30/16	11-30-16	19075	\$1,367.94	11-30-16
161027	17 6127 25	REFUND	11317		\$195 98	11/30/16	11-30-16	19076	\$195 98	11-30-16
101937	12 0132 33	REFUND	11311		\$255.50	11/ 30/ 10	11 90 10	250.0	1133.30	11 50 10
161938	12 6132 35	12/16 RETIREE HEALTH PREMIUM	10138		\$172.23	11/30/16	11-30-16	19077	\$172.23	11-30-16
161020	17 6122 25	REFUND	71714		\$607 76	11/30/16	11-30-16	19078	\$607 76	11-30-16
101333	17 0137 33	REFUND	21/14		\$007.70	11/ 50/ 10	TT-20-10	19070	\$007.70	11-20-10

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VOUCHER	ACCOUNT NUMBER	DESCRIPTION	VENDOR	PO NO	TOTAL AMOUNT	REGISTER DATE	CHECK DATE	CHECK NO	CHECK	APPROVED
161940	12 6132 35	12/16 RETIREE HEALTH PREMIUM	11218		\$172.23	11/30/16	11-30-16	19079	\$172.23	11-30-16
161941	12 6132 35	REFUND 12/16 RETIREE HEALTH PREMIUM	20869		\$607.76	11/30/16	11-30-16	19080	\$607.76	11-30-16
161942	12 6132 35	12/16 RETIREE HEALTH PREMIUM	20802		\$172.23	11/30/16	11-30-16	19058	\$172.23	11-30-16
161943	12 6132 35	12/16 RETIREE HEALTH PREMIUM	19047		\$ 469.46	11/30/16	11-30-16	19081	\$469.46	11-30-16
161944	12 6132 35	12/16 RETIREE HEALTH PREMIUM	21958		\$866.69	11/30/16	11-30-16	19082	\$866.69	11-30-16
161945	12 6132 35	12/16 RETIREE HEALTH PREMIUM	21055		\$469.46	11/30/16	11-30-16	19083	\$469.46	11-30-16
161946	12 6132 35	12/16 RETIREE HEALTH PREMIUM	21297		\$469.46	11/30/16	11-30-16	19084	\$469.46	11-30-16
161947	12 6132 35	12/16 RETIREE HEALTH PREMIUM	11324		\$469.46	11/30/16	11-30-16	19059	\$469.46	11-30-16
161948	12 6132 35	12/16 RETIREE HEALTH PREMIUM	20795		\$469.46	11/30/16	11-30-16	19060	\$469.46	11-30-16
161949	12 6132 35	12/16 RETIREE HEALTH PREMIUM	22687		\$195.98	11/30/16	11-30-16	19061	\$195.98	11-30-16
161950	12 6132 35	12/16 RETIREE HEALTH PREMIUM	22720		\$1,367.94	11/30/16	11-30-16	19085	\$1,367.94	11-30-16
161951	12 6132 35	12/16 RETIREE HEALTH PREMIUM REFUND	21863		\$516.96	11/30/16	11-30-16	19086	\$516.96	11-30-16
161952	12 6132 35	12/16 RETIREE HEALTH PREMIUM REFUND	11536		\$777.28	11/30/16	11-30-16	19087	\$777.28	11-30-16
161953	12 6132 35	12/16 RETIREE HEALTH PREMIUM REFUND	13007		\$1,367.94	11/30/16	11-30-16	19088	\$1,367.94	11-30-16
161954	12 6132 35	12/16 RETIREE HEALTH PREMIUM REFUND	18152		\$918.70	11/30/16	11-30-16	19089	\$918.70	11-30-16
161955	12 6132 35	12/16 RETIREE HEALTH PREMIUM REFUND	20981		\$607.76	11/30/16	11-30-16	19090	\$607.76	11-30-16
161956	12 6132 35	12/16 RETIREE HEALTH PREMIUM REFUND	22974		\$1,367.94	11/30/16	11-30-16	19062	\$1,367.94	11-30-16
161957	12 6132 35	12/16 RETIREE HEALTH PREMIUM REFUND	11334		\$469.46	11/30/16	11-30-16	19091	\$469.46	11-30-16

\$24,078.82 11/30/16

11-16-16		SVCW MONTHLY	WARRANT	EDIT LISTI	NG FOR NOVEMBER 3	0, 2016				PAGE
VOUCHER	ACCOUNT NUMBER	DESCRIPTION	VENDOR	PO NO	TOTAL AMOUNT	REGISTER DATE	CHECK DATE	CHECK NO	CHECK	APPROVED DATE
					\$24,078.82	11/30/16				
					\$24,078.82					

37 records listed.

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SVCW WARRANT REGISTER

SVCW Warrant Register for period covering December 17, 2016 to December 30, 2016.

		SI	LI	COI	N VA	LLEY	C	LE/	AN	WA	TE	ER			
12-30-16	A	R	R	A	ΝT	R	Е	G	Ι	s	т	Е	R		PAGE 9532
				1	FUND	REC	AP								
NAME														FUND	AMOUNT
CAPITAL IMPROVEMENT	FU	ND												14	25,601.50

STAGE 2 CAPACITY FUND	15	213.00	
OPERATION	\$ 18	479,900.99	
PLANT - CIP BOND	20	1,451,179.15	
TUTAL FOR APPROVAL		\$1,956,894.64	

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 9514 THROUGH 9532 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 19368 THROUGH 19465 INCLUSIVE, TOTALING IN THE AMOUNT OF \$1,956,894.64, 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,

12,28,16 CONTROLER DATE FSM

MA 12/28/2011

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	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
ALHAMBRA & SIERRA SPRINGS	19368	174.60		
SUPPLIES		120116 11/2016 ALHAMBRA SERVICE	174.60	18
ALPHA ANALYTICAL LABORATORIES	19369	255.00		
CONTRACT SERV. (NON-MAINT.)		6112644RPSVCW WBSD LAB ANALYSIS	85.00	18
		6112645RPSVCW WBSD LAB ANALYSIS	85.00	18
		6121124RPSVCW SC LAB ANALYSIS	85.00	18
AMERICAN CHEMICAL SOCIETY	19370	180.00		
MEMB. & MEET.		16589373 2017 ACE MEMBERSHIP - WANDRO	180.00	18
APPLEONE EMPLOYMENT SERVICES	19371	1,257,93		
PROFESSIONAL SERVICES		14303157 W/E 12/03/16 ACCT TEMP SVCS-WONG	636.73	18
		14312443 W/E 12/10/16 ACCT TEMP SVCS-WONG	621.20	18
N	10272	320.42		
ATET	19372	330.42	66 BA	10
UTILITIES		120/201601511 $12/7/16-1/6/17$ SUPS AT&I SERVICE	66.64	10
		120/201015353 12/7/10-1/0/17 KWCFS AT&T SERVICE	98.37	10
		1207201624036 12/7/16-1/6/17 MFFS AT&T SERVICE	66.84	18
ATMOSPHERIC ANALYSIS & CONSULT	19373	2,595.00		
CONTRACT SERV. (NON-MAINT.)		A16325 ANALYSIS & REPORTING	1,855.00	18
		A16371 ANALYSIS & REPORTING - SILOXNES	740.00	18
B & B MICROSCOPE SERVICE & REP	19374	575.00		
MACH & EQUIP MAINT SERVICES		101401 10/12/16 PREVENTIVE MAINTENANCE SERVICE LAB EQU	575.00	18
BABBITT BEARING COMPANY INC	19375	400.00		
MACHINERY AND EQUIP MAINT MAT	'E	144807 12/8/2016 STUFFING BOX WORK	400.00	18

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SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/30/16

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	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
BANNER BANK	19376	13,005.90		
CONSTRUCTION - CONTRACTOR		7AESCROW 11/16 PRG PMT 7A WET SIDE REDUNDANT POWER IMP	13,005.90	20
BROWN & CALDWELL	19377	8,138.21		
CAPITAL		11279590 9/30-10/27/16 T.O.2012-02 NUTRIENTS STRATEGY	213.00	15
PROFESSIONAL SERVICES		11279593 9/30-10/27/16 T.O. 2016-05 AIR PERMIT CLEANUP	1,025.46	18
CONTRUCTION-DESIGN		11280304 9/30-10/27/16 T.O.2014-06 36" GRAVITY PDR	1,359.25	20
		11280795 10/28-11/24/16 T.O.2016-03 AIR PERMIT FOOD WA	3,593.25	20
PROFESSIONAL SERVICES		11280796 10/28-11/24/16 T.O.2016-05 AIR PERMIT CLEANUP	1,947.25	18
C.W.E.A SAN FRANCISCO BAY S	19378	300.00		
SUPPLIES		11182016 11/18/16 CWEA SF BAY SECTION MEETING	300.00	18
CA ST DEPT OF FISH AND GAME (C	19379	1,783.00		
CONSTADMIN. & LEGAL		10102016 10/10/16 AMENDMENT FEE NOTIF#1600-2012-0373-R	562.00	20
		11102016 11/10/16 AMENDMENT FEE NOTIF#1600-2012-0373-R	1,221.00	20
CALIFORNIA DETAILERS, INC.	19380	275.00		
MACH & EQUIP MAINT SERVICES		42853 11/25/2016 WASH CARS ON SITE	275.00	18
CALIFORNIA UNITED MECHANICAL, I	19381	2,038.13		
CONSTRUCTION-CONTRACTOR		32620 9/28/16 SERVICE CALL ON SMALL AC UNIT LEAK	2,038.13	20
CALTEST ANALYTICAL LABORATORY	19382	1,654.20		
CONTRACT SERV. (NON-MAINT.)		560789 NPDES PERMIT LAB ANALYSIS	836.10	18
		566015 NPDES PERMIT LAB ANALYSIS	818.10	18
CDW GOVERNMENT, INC.	19383	708.67		
MACHINERY AND EQUIP MAINT MAT	.E	FFB5676 QTY 2 APC SMART UPS 750VA LCD 120V TAA	354.33	18
		FFB5676 QTY 2 APC SMART UPS 750VA LCD 120V TAA	354.34	18

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	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
CEC PRINT SOLUTIONS INC	19384	628.93		
SUPPLIES		421291 #10 SPECIAL WINDOW ENVELOPES REVERSE FLAP ACCOU	628.93	18
CHANDLER, MICHAEL	19385	200.00		
SUPPLIES		12302016 SERVICE RECOGNITION AWARD FOR 10 YEARS	200.00	18
CHAPMAN JR., ROBERT	19386	300.00		
SUPPLIES		12302016 SERVICE RECOGNITION AWARD FOR 15 YEARS	300.00	18
CINTAS CORPORATION NO. 3	19387	2,322.36		
SUPPLIES		464680460 11/2016 LAUNDRY SERVICE	749.87	18
		464683260 12/2016 LAUNDRY SERVICE	820.37	18
		464686066 12/2016 LAUNDRY SERVICE	752.12	18

	WARRANT				
NAME	NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
COLLABORATIVE STRATEGIES CONSU	19388	9	,827.50		
TRAINING		1609SV1116 9/30-11/22/16 T.O.2016-09 TRAINING ADMIN SV	1	,575.00	18
CONTRUCTION-DESIGN		11601SV1216 11/23-12/16/16 T.O.2016-01 BELMONT FORCE M	c	,837.50	20
		11602SV1216 11/23-12/16/16 T.O.2016-03 INFLUENT CONNEC	3	,150.00	20
		11605SV1216 11/23-12/16/16 T.O.2016-05 RWC PUMP STATIO	1	,312.50	20
		11606SV1216 11/23-12/16/16 T.O.2016-06 MPPS REHAB CIP#	ſ	,312.50	20
		101604SV1216 11/23-12/16/16 T.O.2016-04 CONVEYANCE SUP		92.40	20
		101604SV1216 11/23-12/16/16 T.O.2016-04 CONVEYANCE SUP		924.00	20
		101604SV1216 11/23-12/16/16 T.O.2016-04 CONVEYANCE SUP		201.60	20
		101604SV1216 11/23-12/16/16 T.O.2016-04 CONVEYANCE SUP		67.20	20
		1016045V1216 11/23-12/16/16 T.O.2016-04 CONVEYANCE SUP		92.40	20
		101604SV1216 11/23-12/16/16 T.O.2016-04 CONVEYANCE SUP		33.60	20
		101604SV1216 11/23-12/16/16 T.O.2016-04 CONVEYANCE SUP		33.60	20
		1016045V1216 11/23-12/16/16 T.O.2016-04 CONVEYANCE SUP		100.80	20
		101604SV1216 11/23-12/16/16 T.O.2016-04 CONVEYANCE SUP		117.60	20
		101604SV1216 11/23-12/16/16 T.O.2016-04 CONVEYANCE SUP		16.80	20
		20160110CREDIT CREDIT 10/16 T.O.2016-01 CONVEYANCE SYS		-57.20	20
		20160110CREDIT CREDIT 10/16 T.O.2016-01 CONVEYANCE SYS		-572.00	20
		20160110CREDIT CREDIT 10/16 T.O.2016-01 CONVEYANCE SYS		-124.80	20
		20160110CREDIT CREDIT 10/16 T.O.2016-01 CONVEYANCE SYS		-41.60	20
		20160110CREDIT CREDIT 10/16 T.O.2016-01 CONVEYANCE SYS		-57.20	20
		20160110CREDIT CREDIT 10/16 T.O.2016-01 CONVEYANCE SYS		-20.80	20
		20160110CREDIT CREDIT 10/16 T.O.2016-01 CONVEYANCE SYS		-20.80	20
		20160110CREDIT CREDIT 10/16 T.O.2016-01 CONVEYANCE SYS		-62.40	20
		20160110CREDIT CREDIT 10/16 T.O.2016-01 CONVEYANCE SYS		-72.80	20
		20160110CREDIT CREDIT 10/16 T.O.2016-01 CONVEYANCE SYS		-10.40	20

COUNTY OF SAN MATEO	19389		405.00	
TRAINING		SD160080	11/7-11/17/2016 TRAINING COMMUNICATION & MS W	105.00
		SD160080	11/7-11/17/2016 TRAINING COMMUNICATION & MS W	300.00

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WARRANT NUMBER INVOICE #/DESCRIPTION AMOUNT FUND DETAIL DAVID J POWERS AND ASSOCIATES, 19390 54,986.02 CONTRUCTION-DESIGN 2016018 11/16 T.O.2016-01 SRF FUNDING PREP FOR WWTP IM 857.54 20 20150212 11/16 T.O.2015-02 EIP PREPARATION CIP#6006 2,977.07 20 20150212 11/16 T.O.2015-02 EIP PREPARATION CIP#6006 29,770.66 20 20150212 11/16 T.O.2015-02 EIP PREPARATION CIP#6006 6,495.42 20 20150212 11/16 T.O.2015-02 EIP PREPARATION CIP#6006 2,165.14 20 20150212 11/16 T.O.2015-02 EIP PREPARATION CIP#6006 2,977.07 20 20150212 11/16 T.O.2015-02 EIP PREPARATION CIP#6006 1,082.57 20 20150212 11/16 T.O.2015-02 EIP PREPARATION CIP#6006 1,082.57 20 20150212 11/16 T.O.2015-02 EIP PREPARATION CIP#6006 3,247.71 20 20150212 11/16 T.O.2015-02 EIP PREPARATION CIP#6006 3,788.99 20 20150212 11/16 T.O.2015-02 EIP PREPARATION CIP#6006 541.28 20 DETECTION INSTRUMENTS CORP 19391 610.09 SUPPLIES 737034506 PANEL MOUNT ANTENNA KIT, GLASS CYLINDER, LIT 610.09 18 DIXON-FLICK, JENNIFER 19392 200.00 SUPPLIES 12302016 SERVICE RECOGNITION AWARD FOR 10 YEARS 200.00 18 DMJ GAS MARKETING CONSULTANTS, 19393 3,013.94 UTILITIES 20160111 11/2016 COGEN GAS MARKETING SERVICES 3,013.94 18

ERS INDUSTRIAL SERVICES, INC.	19394	634,667.56		
CONSTRUCTION-CONTRACTOR		9B 11/16 PRG PMT 9 PRIM SEDIMENTATION TANK REHAB CIP#9	298,905.62	20
		9B 11/16 PRG PMT 9 PRIM SEDIMENTATION TANK REHAB CIP#9	298,905.62	20
		18CIP9014 11/16 PRG PMT 18 DUAL MEDIA FILTER A1-A5 COA	21,016.32	20
CONSTRUCTION-CONTRACTOR		99606 11/3/2016 PIPE REPAIR SERVICE	15,840.00	14
ESPOSTO'S	19395	1,196.55		
SUPPLIES		51348 25TH ANNUAL EMPLOYEE RECOGNITION EVENT 2/1/17 50	1,196.55	18

NAME

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
EVOQUA WATER TECHNOLOGIES LLC	19396	49,147.12		
CHEMICAL SUPPLIES		902840981 10/20/2016 4,301 CALCIUM NITRATE	9,844.99	18
		902878093 11/15/16 CALCIUM NITRATE	5,592.03	18
		902878093 11/15/16 CALCIUM NITRATE	4,216.34	18
		902881863 11/22/16 3,367 & 907 CALCIUM NITRATE	7,707.06	18
		902881863 11/22/16 3,367 & 907 CALCIUM NITRATE	2,076.12	18
		902897752 11/30/2016 CALCIUM NITRATE	7,535.39	18
		902897752 11/30/2016 CALCIUM NITRATE	2,311.89	18
		902905126 12/7/2016 CALCIUM NITRATE	7,803.20	18
		902905126 12/7/2016 CALCIUM NITRATE	2,060.10	18
FASTENAL COMPANY	19397	2,822.95		
MISCELLANEOUS		CASAA49417 QTY 150 SS HEX CAP SCREWS	90.70	18
SUPPLIES		CASAA49504 QTY 50 NUTS	130.54	18
MISCELLANEOUS		CASAA49657 SS C-CLAMP, SS SCREW, SS HEX NUT, SS WASHER	30.23	18
		CASAA49657 SS C-CLAMP, SS SCREW, SS HEX NUT, SS WASHER	32.11	18
		CASAA49657 SS C-CLAMP, SS SCREW, SS HEX NUT, SS WASHER	134.05	18
		CASAA49657 SS C-CLAMP, SS SCREW, SS HEX NUT, SS WASHER	2,079.18	18
		CASAA49657 SS C-CLAMP, SS SCREW, SS HEX NUT, SS WASHER	34.62	18
SUPPLIES		CASAA50413 VENDOR MANAGED RESTOCK	291.52	18
FED EX	19398	497.51		
CONSTRUCTION-CONTRACTOR		561591132 THRU 11/18/16 FEDEX CHARGES	39.99	20
SUPPLIES		561591132 THRU 11/18/16 FEDEX CHARGES	36.74	18
		561591132 THRU 11/18/16 FEDEX CHARGES	19.57	18
MACHINERY AND EQUIP MAINT MA	TE	561591132 THRU 11/18/16 FEDEX CHARGES	108.80	18
SUPPLIES		561591132 THRU 11/18/16 FEDEX CHARGES	13.06	18
		561591132 THRU 11/18/16 FEDEX CHARGES	31.81	18
		564474455 THRU 12/16/16 FEDEX CHARGES	247.54	18
FIELDMAN, ROLAPP & ASSOCIATES	19399	420.15		
CONSTADMIN. & LEGAL		22883 6/21/16-11/30/16 PROFESSIONAL SERVICES	420.15	20

•	WARRANT				
NAME	NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
FINTA ENTERPRISES, INC	19400		1,762.23		
MISCELLANEOUS		51122TAX SALES TAX LIABILITY - LINERS		-0.17	18
CONTRACT SERV. (NON-MAINT.)		51020 11/21/2016 GRIT HAULING		992.75	18
		51122 12/2/2016 GRIT HAULING, QTY 1 LINERS		769.65	18
FISHER SCIENTIFIC COMPANY	19401		110.09		
SUPPLIES		4944143 QTY 1 AMMONIA STD		39.17	18
		5031117 PHENYLARSINE OXIDE		70.92	18
FITZGERALD, HERMAN H. LAW OFFI	19402		14,361.90		
CONSTADMIN. & LEGAL		11292016A 11/16 PROF SVCS CONVEYANCE SYSTEM		9,571.50	20
		11292016B REIM-11/16 PROF SVCS CONVEYANCE SYSTEM		100.20	20
PROFESSIONAL SERVICES		11302016A 11/16 PROF SVCS		4,590.00	18
		11302016B REIM-11/16 PROF SVCS		100.20	18
FIVESKY	19403		4,162.50		
CAPITAL		FSUSIN5761 POWER ISSUE SUPPORT		4,162.50	14
GABLE, ERIC	19404		59.34		
SMALL TOOLS		12302016 REIMB-TOOLS		59.34	18
GETINGE USA INC	19405		2,390.76		
MACH & EQUIP MAINT SERVICES		3170207 GASKETS, VALVE, SPARE PARTS		2,390.76	18
GRAINGER	19406		249.15		
MACHINERY AND EQUIP MAINT MAT	E	9305559131 CREDIT MEMO PARTS		-25.81	18
		9305559149 CREDIT MEMO PARTS		-143.05	18
MISCELLANEOUS		9311194113 QTY 25 RAIN TIGHT CONDUIT		418.01	18
GUZMAN, FRANCISCO	19407		209.90		
SMALL TOOLS		12302016 REIMB-TOOLS		209.90	18

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SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/30/16

WARRANT NAME NUMBER INVOICE #/DESCRIPTION AMOUNT DETAIL FUND HACH COMPANY 19408 931.98 SUPPLIES 10170331 3 785.25 18 10218047 QTY2 MANVER 2 PWD PLWS, QTY 4 CARTRIDGE 55.82 18 10218047 QTY2 MANVER 2 PWD PLWS, QTY 4 CARTRIDGE 90.91 18 HAMAMOTO, MONTE 19409 75.33 SUPPLIES 12302016 REIMB-SAFETY SHOES 75.33 18 HANSEN, ERIC 19410 135.00 CONF. & TRAV. 12302016 REIMB-10/16-12/16 CELL PHONE FLAT RATE 135.00 18 HANSON BRIDGETT LLP 19411 10,977.00 PROFESSIONAL SERVICES 1179201 10/16 LEGAL SVCS-PUBLIC WORKS CONTRACTING & IN 10,977.00 18 HARRINGTON INDUST PLASTICS 19412 9.81 CONSTRUCTION-CONTRACTOR 3K3334 FREIGHT HANDLING ONLY 9.81 20 HERC RENTALS INC. 19413 15,302.98 RENTAL/LEASES 28852065002 10/6-11/3/2016 RENTAL - TRACTOR DRYING BED 6,812.54 18 28852065003 11/03-12/03/2016 RENTAL - TRACTOR DRYING B 8,490.44 18 JENTECH SERVICES 19414 6,986.30 MACH & EQUIP MAINT SERVICES 2220 12/13-12/23/16 INSTRUMENT CALIBRATION 4,275.00 18 2220 12/13-12/23/16 INSTRUMENT CALIBRATION 190.00 18 2220 12/13-12/23/16 INSTRUMENT CALIBRATION 380.00 18 2220 12/13-12/23/16 INSTRUMENT CALIBRATION 2,141.30 18

WARRANT NAME NUMBER INVOICE #/DESCRIPTION AMOUNT FUND DETAIL JHS CONSULTING, LLC 19415 15,990.00 CONTRUCTION-DESIGN 2016032 11/16 T.O.2016-03 CONVEYANCE SYSTEM CEOA CIP#6 879.45 20 2016032 11/16 T.O.2016-03 CONVEYANCE SYSTEM CEOA CIP#6 8,794.50 20 2016032 11/16 T.O.2016-03 CONVEYANCE SYSTEM CEOA CIP#6 1,918.80 20 2016032 11/16 T.O.2016-03 CONVEYANCE SYSTEM CEOA CIP#6 639.60 20 2016032 11/16 T.O.2016-03 CONVEYANCE SYSTEM CEQA CIP#6 879.45 20 2016032 11/16 T.O.2016-03 CONVEYANCE SYSTEM CEOA CIP#6 319.80 20 2016032 11/16 T.O.2016-03 CONVEYANCE SYSTEM CEOA CIP#6 319.80 20 2016032 11/16 T.O.2016-03 CONVEYANCE SYSTEM CEQA CIP#6 959.40 20 2016032 11/16 T.O.2016-03 CONVEYANCE SYSTEM CEQA CIP#6 1,119.30 20 2016032 11/16 T.O.2016-03 CONVEYANCE SYSTEM CEQA CIP#6 159.90 20 KELLER CANYON LANDFILL CO. 19416 761.33 CONTRACT SERV. (NON-MAINT.) 25080 11/21/2016 SWR GRIT SCRN 761.33 18 KEN GRADY COMPANY, INC 19417 1,386.67 CONSTRUCTION-CONTRACTOR 2319 QTY 3 PUMP ASSY. 1,308.00 20 2319 OTY 3 PUMP ASSY. 78.67 20 KUMAR, RAJNESH 19418 74.74 TRAINING 12302016 REIMB-MILEAGE 11/29 TO 12/2/16 74.74 18 LIEBERT CASSIDY WHITMORE 19419 5,824.05 PROFESSIONAL SERVICES 1432398 11/16 FLSA WAGE AND HOUR AUDIT 4,029.05 18 1432661 11/16 D.A. HALL MGMT PAY PERS APPEAL 1,795.00 18 19420 LOSTICA, JAMES 255.00 SUPPLIES 12302016 REIMB-SAFETY SHOES 255.00 18 MARINA MECHANICAL 19421 1,810.27 MACH & EOUIP MAINT SERVICES 7946 12/16 HVAC MAINTENANCE 1,128.75 18 86328 11/3/16 HVAC SERVICES 681.52 18

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
MCMASTER-CARR SUPPLY CO.	19422	150.56		
MISCELLANEOUS		93319618 QTY 14 PKS WIRE ROPE COMPRESSION SLEEVE	59.27	18
		93319618 QTY 14 PKS WIRE ROPE COMPRESSION SLEEVE	47.91	18
		93319618 QTY 14 PKS WIRE ROPE COMPRESSION SLEEVE	43.38	18
MID-PENINSULA WATER DISTRICT	19423	160.55		
UTILITIES		1130201651500 10/25-11/25/16 BLPS WATER SERVICE	160.55	18
MOTION INDUSTRIES INC.	19424	1.092.33		
MACHINERY AND EQUIP MAINT MAT	E	CA24874316 QTY 1 BELLOWS PUMP	1,092.33	18
NEXLEVEL INFORMATION TECHNOLOG	19425	5,300.00		
CONSTADMIN. & LEGAL		20161024 10/16 ERP PROCUREMENT ENGAGEMENT	5,300.00	20
OFFICE DEPOT	19426	343.69		
OFFICE SUPPLIES		885289134001 12/07/16 OFFICE SUPPLIES	193.03	18
SUPPLIES		886052239001 12/09/16 OFFICE SUPPLIES	22.92	18
OFFICE SUPPLIES		886052239001 12/09/16 OFFICE SUPPLIES	35.55	18
		886103915001 CREDIT MEMO	74.98	18
SUPPLIES		886103915001 CREDIT MEMO	17.21	18
OTIS ELEVATOR COMPANY	19427	5,299.23		
MACH & EQUIP MAINT SERVICES		SJ04029716 7/1-9/30/2016 ELEVATOR SERVICE CONTRACT CHA	4,967.01	18
		SJ36546001 6/23/2016 ELEVATOR FIRE TESTING	332.22	18

SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/30/16

	WARRANT				
NAME	NUMBER	INVOICE #/DESCRIPTION	AMOUNT	DETAIL	FUND
PACIFIC GAS AND ELECTRIC COMPA	19428		21,014.18		
UTILITIES		1121201690892 10/14-11/14/16 ELEC UTIL 1406 MTR#T55	510	381.89	18
		1121201690892 10/14-11/14/16 ELEC UTIL 1406 MTR#T55	510	124.17	18
		911201624970A 08/11/16-09/09/16 GREENDALE-ELECTRIC 2	AND	91.50	18
		911201624970B 8/11/16-9/9/16 GREENDALE ELECTRIC AND	GA	970.98	18
		1011201624970A 9/10-10/10/16 GREENDALE GAS, ELEC		853.70	18
		1011201624970B 9/10-10/10/16 GREENDALE GAS, ELEC		100.05	18
		911201624970CR CR 8/11/16-9/9/16 GREENDALE-ELECTRIC	AN	-970.98	18
		911201624970CR CR 8/11/16-9/9/16 GREENDALE-ELECTRIC	AN	-91.50	18
		1011201624970AC CR 9/10-10/10/2016 GREENDALE GAS, EX	LEC	-853.70	18
		1011201624970CR CR 9/10-10/10/2016 GREENDALE GAS, ED	LEC	-100.05	18
		1121201688673 10/14-11/14/16 BLPS ELECTRIC SERVICE		3,139.16	18
		1201201603894 10/25-11/23/2016 RCPS LYNGSO PGE ELEC		14.41	18
		1201201665919 10/31-11/30/2016 GEG GAS TRANSPORTATIO	ON	888.49	18
		1202201626195 9/23-10/21/2016 MPPS ELECTRIC SERVICE		5,688.76	18
		1202201626195A 10/22-11/21/2016 MPPS ELECTRIC SERVIC	CE	5,637.17	18
		1205201643834 10/25-11/22/2016 RCPS ELECTRIC GEN		159.64	18
		1209201624970 11/9-12/8/16 GREENDALE ELEC GAS		933.63	18
		15017543834 10/26-11/22/2016 ELEC, RCPS		4,046.86	18
PACIFIC STATES ENVIRONMENTAL C	19429		38,150.00		
CONSTRUCTION-CONTRACTOR		REISS6091101275 REISS CK#18781 DTD 10/7/16		38,150.00	20
PITNEY BOWES	19430		265.92		
RENTAL/LEASES		3100844190 1/10/17-4/9/17 LEASE - POSTAGE MACHINE		265.92	18
DOLYDYNE INC	19431		40 112 00		
CUENTCAL SUDDLIES	17131	1094519 11/23/2016 18 400 CLARTELOC C-C2CE	40,112.00	20 056 00	10
CHEMICAL SUFFEILS		1099461 12/15/2016 18,400 CLARTFLOC C-6265		20,050.00	10
		1033401 12/13/2010 10/400 CHARTPLOC C-6262		20,050.00	19

WARRANT NAME NUMBER INVOICE #/DESCRIPTION AMOUNT DETAIL FUND POWER ENGINEERING CONSTRUCTION 19432 460,984.00 CONSTRUCTION-CONTRACTOR 18B 11/16 PRG PMT 18 PLANT EFFLUENT OUTFALL LEAK REPAI 443,422.00 20 154002 12/31/15-7/31/16 PRG PMT 2 PROJ#2013.034.40 CIP 17,562.00 20 PURE TEC INDUSTRIAL WATER 19433 297.00 MACH & EQUIP MAINT SERVICES 1527311 12/16-2/17 DI-WATER SYSTEM MAINENANCE SERVICE 42.00 18 1527312 12/16-2/17 DI-WATER SYSTEM MAINENANCE SERVICE 255.00 18 RAM, VEER 19434 200.00 SUPPLIES 12302016 SERVICE RECOGNITION AWARD FOR 10 YEARS 200.00 18 RE/MAX STAR PROPERTIES 19435 1,250.00 CONSTRUCTION-CONTRACTOR 10052016 10/5/16 10% LISTING SVC FOR DARCY & HARTY CON 1,250.00 20 RECOLOGY SAN MATEO COUNTY 19436 107.70 UTILITIES 24124489 12/1/2016-2/28/2017 GREENDALE RESIDENTIAL WAS 107.70 18 REDWOOD CITY, CITY OF - FINANC 19437 12,172.24 PROFESSIONAL SERVICES BR42089 11/16 ACCOUNTING SERVICES 11,119.55 18 MACH & EQUIP MAINT SERVICES BR42144 10/16-11/15/16 FUEL CHARGES 1,052.69 18 REDWOOD CITY, CITY OF - WATER 19438 4,751.66 UTILITIES 1118201606774 10/28/16-11/28/16 RCPS WATER 126.51 18 1118201619903 10/28/16-11/28/16 1406 WTR/SWR/GRB 186.69 18 1118201619929 10/28/16-11/28/16 1406 FIRE SERVICE 96.00 18 1122201686984 10/28/16-11/28/16 PLANT WATER & GARBAGE 4,342.46 18

SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/30/16

WARRANT NAME NUMBER INVOICE #/DESCRIPTION AMOUNT DETAIL FUND RGM AND ASSOCIATES 19439 3,468.50 CONST.-ADMIN. & LEGAL 498 10/8-10/29/16 T.O.2013-01 LABOR COMPLIANCE 561.83 20 498 10/8-10/29/16 T.O.2013-01 LABOR COMPLIANCE 561.83 20 CONTRUCTION-DESIGN 498 10/8-10/29/16 T.O.2013-01 LABOR COMPLIANCE 561.84 20 CONST.-ADMIN. & LEGAL 563 11/5-12/2/16 T.O.2013-01 LABOR COMPLIANCE 594.34 20 CONTRUCTION-DESIGN 563 11/5-12/2/16 T.O.2013-01 LABOR COMPLIANCE 594.33 20 CONST.-ADMIN. & LEGAL 563 11/5-12/2/16 T.O.2013-01 LABOR COMPLIANCE 594.33 20 RODAN BUILDERS, INC 19440 76.818.90 CONSTRUCTION-CONTRACTOR 7B 11/16 PRG PMT 7 WET SIDE REDUNDANT POWER IMPROVEMEN 76,818.90 20 RSCA 19441 1,310.00 CONST.-ADMIN. & LEGAL 161117 11/05/16 FULL PAGE LEFT INTERIOR COLOR ADVERTIS 655.00 20 161210 12/06/16 FULL PAGE LEFT INTERIOR COLOR ADVERTIS 655.00 20 SABAH INTERNATIONAL INC 19442 438.75 MACH & EQUIP MAINT SERVICES 124359 11/15/2016 SPRINKLER INSPECTION 438.75 18 SAN FILIPPO, JOHN 19443 135.00 UTILITIES 12302016 REIM - 8/26-11/25/2016 AT&T CELL PHONE SVC 135.00 18 SAN MATEO DAILY JOURNAL 19444 1,827.00 CONST.-ADMIN. & LEGAL 2699898001 11/29/16 DRAFT EIR NEWSPAPER PUBLICATION 1,827.00 20

WARRANT NAME NUMBER INVOICE #/DESCRIPTION AMOUNT DETAIL FUND SANDUL, DUANE 19445 1,040.00 CONTRUCTION-DESIGN 10B 10/16 T.O.2016-01 CONVEYANCE SYSTEM CEOA CIP#6006 57.20 20 10B 10/16 T.O.2016-01 CONVEYANCE SYSTEM CEOA CIP#6006 62.40 20 10B 10/16 T.O.2016-01 CONVEYANCE SYSTEM CEQA CIP#6006 20.80 20 10B 10/16 T.O.2016-01 CONVEYANCE SYSTEM CEOA CIP#6006 572.00 20 10B 10/16 T.O.2016-01 CONVEYANCE SYSTEM CEQA CIP#6006 20.80 20 10B 10/16 T.O.2016-01 CONVEYANCE SYSTEM CEQA CIP#6006 124.80 20 10B 10/16 T.O.2016-01 CONVEYANCE SYSTEM CEQA CIP#6006 57.20 20 10B 10/16 T.O.2016-01 CONVEYANCE SYSTEM CEQA CIP#6006 72.80 20 10B 10/16 T.O.2016-01 CONVEYANCE SYSTEM CEQA CIP#6006 10.40 20 10B 10/16 T.O.2016-01 CONVEYANCE SYSTEM CEOA CIP#6006 41.60 20 SCHEPIS, GERALD 19446 750.00 SUPPLIES 12302016 SERVICE RECOGNITION AWARD FOR 25 YEARS 750.00 18 ST JUDE CHILDREN'S RESEARCH HO 19447 750.00 SUPPLIES 12302016 DONATION-EMPLOYEE SERVICE RECOGNITION AWARD F 750.00 18 SUBURBAN PROPANE LP 19448 267.34 UTILITIES 1644014061 12/2/16 PROPANE 255.34 18 226595 11/14/2016 PROPANE RENTAL 12.00 18 SWRCB FEES - ST WATER RESOURCE 19449 117,796.00 ADMINISTRATIVE EXPENSES WD0117913 FY 16-17 NPDESW ANNUAL PERMIT FEE 10,000.00 18 WD0117913 FY 16-17 NPDESW ANNUAL PERMIT FEE 107,796.00 18 SYNAGRO TECHNOLOGIES INC 19450 50,031.82 CONTRACT SERV. (NON-MAINT.) 3102685 10/16 BIOSOLIDS HAULING 50,031.82 18 T & T VALVE AND INSTRUMENT INC 19451 7,550.55 CONSTRUCTION-CONTRACTOR 52052 11/23/16 18" MATCO-NORCA GATE VALVE 7,550.55 20

	WARRANT								
NAME	NUMBER	INVOICE	#/DESCRIPTION				AMOUNT	DETAIL	FUND
TANNER PACIFIC, INC.	19452						92,765.41		
CONSTRUCTION-CONTRACTOR		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT	VAR	6,268.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT	VAR	98.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT	VAR	98.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT	VAR	21,826.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT V	VAR	98.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT V	VAR	98.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT V	VAR	8,716.60	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT V	VAR	18,245.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT V	/AR	6,244.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT V	/AR	98.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT V	/AR	686.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT V	/AR	263.51	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT V	/AR	400.00	20
		216107	12/4-12/17/16	T.O.2016-01	CONSTRUCTION	MGMT V	/AR	9,520.30	20

216107 12/4-12/17/16 T.O.2016-01 CONSTRUCTION MGMT VAR

216107 12/4-12/17/16 T.O.2016-01 CONSTRUCTION MGMT VAR

216107 12/4-12/17/16 T.O.2016-01 CONSTRUCTION MGMT VAR

216108 12/4-12/17/16 T.O.2016-04 UPS REPLACEMT & CONTR

TELEPACIFIC COMMUNICATIONS	19453		9,770.	03	
UTILITIES		854137740	12/9/16-1/8/17 TELEPACIFIC SERVICE	1,000.00	18
		854137740	12/9/16-1/8/17 TELEPACIFIC SERVICE	1,000.00	18
		854137740	12/9/16-1/8/17 TELEPACIFIC SERVICE	1,000.00	18
		854137740	12/9/16-1/8/17 TELEPACIFIC SERVICE	1,000.00	18
		854137740	12/9/16-1/8/17 TELEPACIFIC SERVICE	5,770.03	18
THATCHER COMPANY OF CALIFORNIA	19454		9,198.1	10	

			5,250.20		
CHEMICAL SUPPLIES	2420	4 10/5/16 FERRIC CHLORIDE		4,587.57	18
	24250	8 11/15/16 FERRIC CHLORIDE		4,610.53	18

CONSTRUCTION-CONSTRUCTION MGMT

196.00

5,278.00

9,033.00

5,599.00

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SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/30/16

WARRANT NAME NUMBER INVOICE #/DESCRIPTION AMOUNT DETAIL FUND TSUKUSHI, RICHARD 19455 210.00 MACH & EOUIP MAINT SERVICES 5098 11/16 BACKFLOW SVC - MPPS 18 210.00 U.S. HEALTHWORKS MEDICAL GROUP 19456 442.00 PROFESSIONAL SERVICES 1121201641282 11/21/16 PRE-EMPLOYMENT PHYSICAL-S GILHA 221.00 18 1130201641282 11/30/16 PRE-EMPLOYMENT PHYSICAL-C CHIU 221.00 18 UNIVAR USA INC. 19457 26,546.65 CHEMICAL SUPPLIES SJ786424 11/23/2016 SOD BISULFITE 25% 3,668.71 18 SJ786732 11/23/2016 SOD HYPO 12.5% LIQUICHLOR 2,013.95 18 SJ787205 11/29/2016 SOD HYPO 12.5% LIQUICHLOR 2,013.50 18 SJ787536 12/1/2016 SOD BISULFITE 25% 4,091.60 18 SJ787974 12/5/2016 SOD HYPO 12.5% LIQUICHLOR 2,057.75 18 SJ788787 12/8/2016 SOD BISULFITE 25% 4,503.35 18 SJ789204 12/9/2016 SOD HYPO 12.5% LIQUICHLOR 1,733.40 18 SJ789519 12/13/2016 SOD BISULFITE 25% 4,410.62 18 SJ789931 12/15/16 4,590 SOD HYPO 2,053.77 18 VALLEY OIL COMPANY 19458 296.48 MISCELLANEOUS 36282 EMPTY OIL DRUMS 296.48 18 VALLEY OIL COMPANY (VEHICLE FU 19459 1,019.99 SUPPLIES 435647 11/18-11/28/2016 FUEL CHARGES COMPANY VEHICLES 244.88 18 438481 12/1-12/13/2016 FUEL CHARGES COMPANY VEHICLES 775.11 18 VINCENT ELECTRIC MOTOR COMPANY 19460 1,282.50 MACHINERY AND EOUIP MAINT MATE 902613 3/18/2016 18 HP WILO MOTOR REPAIR 1,282.50 18 VISTA ANALYTICAL LABORATORY, I 975.00 19461 CONTRACT SERV. (NON-MAINT.) 40673 LAB ANALYSIS 975.00 18

	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
VWR INTERNATIONAL, LLC	19462	622.93		
SUPPLIES		8046623056 10/27/16 CREDIT MEMO	-191.12	18
		8046634622 10/27/16 LAB SUPPLIES	191.12	18
		8046831246 LAB SUPPLIES	96.52	18
		8046831246 LAB SUPPLIES	60.97	18
		8046831246 LAB SUPPLIES	198.45	18
		8046831246 LAB SUPPLIES	107.17	18
		8046831246 LAB SUPPLIES	159.82	18
WESTERN ENERGY SYSTEMS	19463	44,032.70		
MACH & EQUIP MAINT SERVICES		3645261 7/16 LTSA UNIT #1	6,105.60	18
		3645262 7/16 LTSA UNIT#2	4,655.52	18
		3681792 10/16 LTSA UNIT #1	7,492.08	18
		3681793 10/16 LTSA UNIT #2	8,064.48	18
		3690363 11/30/16 FINANCE CHARGE	161.42	18
		3691524 11/16 LTSA UNIT#1	10,583.04	18
		3691525 11/16 LTSA UNIT#2	6,970.56	18
WHITLEY, BURCHETT AND ASSOCIAT	19464	34,949.86		
CONTRUCTION-DESIGN		1644 11/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	1,710.60	20
		1644 11/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	1,244.07	20
		1644 11/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	1,710.60	20
		1644 11/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	1,866.11	20
		1644 11/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	311.03	20
		1644 11/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	2,177.13	20
		1644 11/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	17,106.02	20
		1644 11/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	3,732.22	20
		1644 11/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	622.04	20
		1644 11/16 T.O.2016-02 CONVEYANCE SYSTEM PROGRAM MGMT	622.04	20
CONSTADMIN. & LEGAL		10371 AUG-OCT2016 T.O.2010-02 48" INFLUENT FORCE MAIN	167.50	20
CONTRUCTION-DESIGN		14323 11/16 T.O.2014-03 54" FORCE MAIN REPLACEMENT CIP	532.50	20
V CONSTADMIN. & LEGAL		16210 11/16 T.O.2016-01 SRF FINANCIAL SVCS CIP#9158	3,148.00	20

WARRANT NAME NUMBER INVOICE #/DESCRIPTION AMOUNT DETAIL FUND XEROX CORPORATION 19465 2,205.00 RENTAL/LEASES 87190721 12/16 XEROX LEASE 496.75 18 86984996 11/16 XEROX LEASE 238.48 18 87190717 12/16 XEROX LEASE 620.86 18 87190718 12/16 XEROX LEASE 254.15 18 87190719 12/16 XEROX LEASE 337.59 18 87190720 12/16 XEROX LEASE 257.17 18

TOTAL

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\$1,956,894.64

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SVCW WARRANT REGISTER

SVCW Warrant Register dated December 29, 2016 for Retiree Health.

		5	SIL	IC	ON	VA	LLE	Y	CL	EA	Ν	W.	AT.	ER				
12-29-16	W	А	R	R	AI	ТИ		R	Е	G	Ι	S	Т	E	F	ζ		PAGE 9513
					FI	JND	RE	CA	P									
NAME																	FUND	AMOUNT
RETIREE HEALTH INST	JR.	. 1	FD.														12	22,738.47
TOTAL FOR APPROVAL																		\$22,738.47

THIS IS TO CERTIFY THAT THE CLAIMS LISTED ON PAGES NUMBERED FROM 9509 THROUGH 9513 INCLUSIVE, AND/OR CLAIMS NUMBERED FROM 19331 THROUGH 19367 INCLUSIVE, TOTALING IN THE AMOUNT OF \$22,738.47, 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,

12 127,14 CONTROLLE DATE FSM-CRWC

12/28/2016

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SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/29/16

NAME BUENROSTRO, BENJAMIN	WARRANT NUMBER 19331	INVOICE #/DESCRIPTION AMOUNT 1,338.78	DETAIL	FUND
RETIREE MEDICAL PAYMENTS		117 01/17 RETIREE HEALTH PREMIUM REFUND	1,338.78	12
DONALDSON, ROBERT M. RETIREE MEDICAL PAYMENTS	19332	605.39 117 01/17 RETIREE HEALTH PREMIUM REFUND	605.39	12
FLAHERTY, LISA M. RETIREE MEDICAL PAYMENTS	19333	788.74 117 01/17 RETIREE HEALTH PREMIUM REFUND	788.74	12
LEACH, PRESTON L. RETIREE MEDICAL PAYMENTS	19334	172.48 117 01/17 RETIREE HEALTH PREMIUM REFUND	172.48	12
REEVES, DENNIS D. RETIREE MEDICAL PAYMENTS	19335	472.96 117 01/17 RETIREE HEALTH PREMIUM REFUND	472.96	12
REYES, CESAR V. RETIREE MEDICAL PAYMENTS	19336	472.96 117 01/17 RETIREE HEALTH PREMIUM REFUND	472.96	12
SCHIECHL, WARREN RETIREE MEDICAL PAYMENTS	19337	196.21 117 01/17 RETIREE HEALTH PREMIUM REFUND	196.21	12
WALSH, WALTER RETIREE MEDICAL PAYMENTS	19338	520.42 117 01/17 RETIREE HEALTH PREMIUM REFUND	520.42	12
WIDGER, RICHARD RETIREE MEDICAL PAYMENTS	19339	1,338.78 117 01/17 RETIREE HEALTH PREMIUM REFUND	1,338.78	12
BAKER, ANDREW RETIREE MEDICAL PAYMENTS	19340	1,223.22 117 01/17 RETIREE HEALTH PREMIUM REFUND	1,223.22	12
BEWLEY, JAMES B. Retiree medical payments	19341	472.96 117 01/17 RETIREE HEALTH PREMIUM REFUND	472.96	12

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	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
BOVE, LEONARD F.	19342	605.39		
RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	605.39	12
BUSCH, JOSEPH A.	19343	172.48		
RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	172.48	12
CHAPMAN, ROBERT G	19344	905.87		
RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	905.87	12
DIAZ, CLARA L.	19345	261.76		
RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	261.76	12
FAZIO, MICHAEL	19346	172.48		
RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	172.48	12
FORD, LARENCE	19347	472.96		
RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	472.96	12
GERKE, FRED	19348	605.39		
RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	605.39	12
GROSSO, LORNA	19349	172.48		
RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	172.48	12
HALL, DAVID A.	19350	1,778.81		
RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	1,778.81	12
HERNANDEZ, JOHN M.	19351	472.96		
RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	472.96	12
JONES, REGGIE H.	19352	196.21		
\sim RETIREE MEDICAL PAYMEN	TS	117 01/17 RETIREE HEALTH PREMIUM REFUND	196.21	12
4				

SILICON VALLEY CLEAN WATER W A R R A N T R E G I S T E R 12/29/16

	WARRANT					
NAME	NUMBER	INVOI	CE #/DESCRIPTION	AMOUNT	DETAIL	FUND
KAUFMAN, KENNETH J	19353	117		172.48	173 40	10
RETIRE MEDICAL PAIMENTS		117	VI/I/ REIIRE READIN FREMIUM REFUND		1/2.40	12
KELLY, DIANE L.	19354			579.26		
RETIREE MEDICAL PAYMENTS		117	01/17 RETIREE HEALTH PREMIUM REFUND		579.26	12
KERTZ, FELIX J.	19355			172.48		
RETIREE MEDICAL PAYMENTS		117 (01/17 RETIREE HEALTH PREMIUM REFUND		172.48	12
RECKES, KARL W.	19356	117		579.26	570 76	10
RETIREE MEDICAL FAIMENTS		117	·		575.20	12
MA, PO KUI	19357			472.96		
RETIREE MEDICAL PAYMENTS		117	01/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
MURRAY, GENE RODGER	19358			901.24		
RETIREE MEDICAL PAYMENTS		117 (01/17 RETIREE HEALTH PREMIUM REFUND		901.24	12
DINEDO JECCE	10750			472.06		
RETIREE MEDICAL PAYMENTS	19339	117	01/17 RETIREE HEALTH PREMIUM REFUND	472.30	472.96	12
POSCH, MICHAEL A.	19360			472.96		
RETIREE MEDICAL PAYMENTS		117	01/17 RETIREE HEALTH PREMIUM REFUND		472.96	12
SMITH, JULIE	19361		1	,338.78		
RETIREE MEDICAL PAYMENTS		117 (01/17 RETIREE HEALTH PREMIUM REFUND		1,338.78	12
	10262			500 40		
RETIRE MEDICAL PAYMENTS	19362	117 4	01/17 RETIRES HEALTH PREMIUM REFUND	520.42	520 42	12
					520.12	
STORMS, VERNON GARY	19363			772.02		
RETIREE MEDICAL PAYMENTS		117 (01/17 RETIREE HEALTH PREMIUM REFUND		772.02	12

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	WARRANT			
NAME	NUMBER	INVOICE #/DESCRIPTION AMOUNT	DETAIL	FUND
SUTER, KATHERINE J.	19364	905.87		
RETIREE MEDICAL PAYMENTS		117 01/17 RETIREE HEALTH PREMIUM REFUND	905.87	12
TAYLOR, TERRY M.	19365	905.87		
RETIREE MEDICAL PAYMENTS		117 01/17 RETIREE HEALTH PREMIUM REFUND	905.87	12
VON SEEBACH, NANCY	19366	579.26		
RETIREE MEDICAL PAYMENTS		117 01/17 RETIREE HEALTH PREMIUM REFUND	579.26	12
WOODSTOCK, CRAIG M.	19367	472.96		
RETIREE MEDICAL PAYMENTS		117 01/17 RETIREE HEALTH PREMIUM REFUND	472.96	12

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TOTAL

\$22,738.47

MENLO PARK PUMP STATION VALVE REPLACEMENT (CAPITAL PROJECT #262) REDWOOD CITY PUMP STATION VALVE REPLACEMENT (CAPITAL PROJECT #263) VALVES PROCUREMENT

<u>ISSUE</u>

Approve Procurement of Valves for the Menlo Park and Redwood City Pump Stations.

BACKGROUND

Replacement of the entire SVCW conveyance system, including the pump stations, is a critical and high priority component of the Capital Improvement Program. In November, SVCW released the Draft Environmental Impact Report for the Wastewater Conveyance System and Treatment Plant Reliability Improvement Project (Project); the Project includes the rehabilitation, repurposing or replacement of the four SVCW pump stations.

According to the current project schedule, all existing pump stations need to continue to operate up to seven years while the new conveyance system is in construction. SVCW's Maintenance Division performed an assessment of the pump stations to define maintenance work required to keep the pump stations in operation for this time period. They identified that most of the major valves at the pump stations are beyond their useful lives and that failure of these valves will result in catastrophic failure and potential spills of untreated wastewater.

The valves need to be replaced during dry weather, when flows are lowest. Staff intends to replace the valves at Menlo Park Pump Station and Redwood City Pump Station during dry weather 2017, followed by valve replacement at the San Carlos Pump Station and the Belmont Pump Station in the dry weather season of 2018.

DISCUSSION

During the pump station assessment, the design team and SVCW staff identified 31 valves, ranging in size from 16-inch to 18-inch, that need to be replaced at the Menlo Park and Redwood City Pump Stations. Additionally, 10 expansion joints need to be replaced.

The Operations and Maintenance (O&M) Divisions provided significant input into the valve selection, and discussions focused on the fact that the pump stations are estimated to be operating for another seven years. Based on designer recommendations and O&M input, the team was able to reduce the total number of valves needed by two – resulting in 29 valves to be replaced. Further, the O&M team determined that due to the relatively short service period required of the valves, several of the very expensive Rotating Disk Valves could be replaced with less expensive Butterfly Valves or Knife Gate Valves. These substitutions may result in a minimal increase of maintenance efforts, but given the shorter expected service-life of the valves, and O&M's positive experience using these valve types in similar applications, it was determined that it was an acceptable cost-cutting measure. These decisions

resulted in an approximate savings of \$200,000 in material costs and will result in additional savings in contractor installation costs.

Pre-purchasing the valves has been evaluated by SVCW staff and the construction management team and it was determined that the benefits of procuring the valves ahead of bidding the installation contract far outweigh the risks. The benefits include:

- 1. Schedule: Some of the valves have a 6-month lead time. By purchasing the valves prior to bidding the installation work, the contractor can mobilize to the project site and commence installation immediately after award.
- 2. Financial: Approximately 15% savings is immediately realized by eliminating the general contractor's mark up on material purchases.

The risk of any material pre-purchase lies with possible damage of the material during shipment to the site. In instances of highly sophisticated and complex materials or equipment, the risk can be great and the shipping contract needs to be extensively vetted. In instances of less sophisticated materials, such as valves, the risk of damage to the valves and providing damaged material to the general contractor is very small and is deemed a worthwhile risk in this case.

The procurement bid documents were publicly advertised on December 8, 2016. Two bids were received on January 3, 2017; the results of the bids are attached to this staff report.

The apparent low bidder is All West Equipment, dba Frank Olsen Company, in the amount of \$391,993.63. SVCW staff recommends that the purchase contract for the valves be awarded to All West Equipment, dba Frank Olsen Company.

FINANCIAL IMPACT

The total budget for Capital Projects 262 and 263 is \$927,081. Due to the nature of this project, it is expected that the majority of the expenditures on the project is the procurement of the materials. Cost for installation will be determined at a later date through the appropriate procurement process.

RECOMMENDATION

Move adoption of RESOLUTION APPROVING CONTRACT DOCUMENTS AND PURCHASE OF VALVES AND EXPANSION JOINTS FOR THE PUMP STATION VALVE REPLACEMENT PROJECT (CAPITAL PROJECTS #262 AND #263), DECLARING AND ACCEPTING BID OF LOWEST RESPONSIBLE BIDDER FOR SAID MATERIALS, REJECTING ALL OTHER BIDS, AUTHORIZING AND DIRECTING EXECUTION OF CONTRACT FOR PURCHASE OF SAID MATERIALS AND DIRECTING RETURN OF BID SECURITY UPON EXECUTION OF CONTRACT BY LOWEST RESPONSIBLE BIDDER – (\$391,993.63) – All West Equipment, dba Frank Olsen Company
SVCW Pump Station Valve Procurement_Capital #262 263 Bidders Checklist

Tuesday, January 3, 2017; 2:00 pm

Name of Bidder	Ast	endum Prop	osal site	isit Affidavit	collusion Afridavit Total Bid Amt.
	#1	Section 00300	Section 00440	Section 00480	
1 All West Equipment DBA Frank Olsen Company	1	1	\checkmark	1	\$391,993.63
2 Southwest Valve, LLC	_	\checkmark	\checkmark	\checkmark	\$450,085.52
** Pending Commission Approval. Next Comm	ission meeti	ng is schedı	uled for Thu	ırsday, Janı	uary 12, 2017.

CONVEYANCE SYSTEM PROGRAM OWNER'S ADVISORY SERVICES KENNEDY/JENKS AND BROWN AND CALDWELL TASK ORDER AMENDMENTS

<u>ISSUE</u>

Approval of Task Order Amendments for Owners Advisory Services for the Conveyance System Program – Kennedy/Jenks and Brown and Caldwell.

BACKGROUND

Silicon Valley Clean Water (SVCW) is implementing its Conveyance System Capital Improvement Program, with SVCW's Engineering Director leading its successful implementation. The Program consists of replacing or rehabilitating nearly all components of the existing conveyance system. Replacement of this system is the highest priority due to its age and continual state of failure.

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. The Commission provided direction to proceed with this procurement method. Staff noted that authorizations needed for implementation of the program would be forthcoming in January 2017. Staff has considered the approach to the design build process and is recommending preparing two "packages" for design build; one to design and construct the Gravity Pipeline and one to design and construct the "Front-of-the-Plant" facilities (Receiving Lift Station, Headworks, and Influent Connector Pipe). Staff also recommends that Design-Build entities be allowed to propose on one or both packages.

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 main ways to enter into a design-build procurement process; using 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 whereas under Progressive Design Build, the design-build entity brings the design to a certain level (approximately 60%) and then prices the work. Under the first method, the Request for Proposal (RFP) needs to be very specific and prescriptive in what the Owner requires and leaves little room for Owner input to the design, since the Design-build entity has already provided a cost and is held accountable to that cost. 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, the different procurement methods, and the fundamental rationale for using design-build, it is clear to staff that the benefits of using a Progressive Design Build process are significant. The main advantage is the increased opportunity for collaboration and flexibility in the early stages of design. Also, there is the advantage of "designing to budget" since the Design Build entity will be intricately involved in pricing the design along the entire process. The main disadvantage to the Owner in using this process is that the construction cost is not known at the time of signing the initial contract. This disadvantage is alleviated by using a two-step process whereby an initial contract is signed for the design portion of the work, to approximately the 60% level, and a second

(final) contract is awarded to finish design and move into construction. The Owner has flexibility up to this point and can reject the cost and can choose to not move into the second contract if it proves to be in the owner's best interest. The overall flexibility of a Progressive Design Build process could prove to be very beneficial to the Authority.

Regardless of the design-build procurement method, it is customary for Owners to use engineering firms as an "Owner's Advisor". The Owner's Advisor provides advice to the Owner throughout the life of the project, helps to procure the design-builder, establishes design standards, provides independent technical analyses, and performs independent design review. This agenda item seeks authorization for two engineering firms (Kennedy/Jenks and Brown and Caldwell) to provide Owner Advisory Services for the two design-build packages. Both firms have provided technical services through the project development and CEQA phases of the Conveyance System program and both firms have significant prior experience as Owner's Advisors for Progressive 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.

In the Request for Proposals phase, a higher level of project description is provided, including those aspects of the work that are fixed and unchangeable or work that can be modified and open to design interpretations. This phase will involve workshops with the shortlisted design build entities and, possibly allowance for a stipend for initial project development. 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.

After the December 2016 SVCW Commission meeting, the Manager authorized both Kennedy/Jenks and Brown and Caldwell to begin work on the design-build procurement process. The firms' Progressive Design Build experts have facilitated workshops with staff to determine qualification preferences and begin tailoring the process of RFQ and RFP development to meet SVCW's needs. This has provided both staff and the firms enough information to begin developing scope and budget for the RFQ and RFP phases of work.

Kennedy/Jenks and Brown and Caldwell have prepared scopes of work for providing Owner's Advisor services for the Gravity Pipeline and the Front of Plant Projects, respectively. These scopes of work will become amendments to the current task orders under which the consultants are currently working. Both scopes of work include the following tasks:

- Project Management and Administrative Support Services
- Request For Qualifications
 - Outreach to Potential PDB Providers
 - Preparation of RFQ
 - SOQ Review and Short-listing Assistance
- Request For Proposals
 - o Preparation of RFP
 - Input to Draft PDB Contracts
 - Proposal Evaluations
 - Negotiations Support
- Coordination with Other Projects
- Standards and Criteria Development
- Risk Register Development
- Meetings with SVCW staff and Associated Project Team Members

The duration of these Task Orders is expected to be 7 months, through the RFP selection period, currently anticipated to be late June/early July.

The budget for Kennedy/Jenks' Task Order Amendment is \$314,092. Their original Task Order 2016-11 had a budget of \$74,950, making the total authorization \$389,042.

The budget for Brown and Caldwell's Task Order Amendment is \$451,435. Their original Task Order 2016-11 had a budget of \$74,841, making the total authorization \$526,276. The level of effort required for the work Brown and Caldwell will be performing is higher due to their sphere of work being the "front-of-the-plant" facilities which have several highly integrated and complex projects and very high level of O&M staff involvement.

Follow-on work will include assistance with the design phase of the work and, ultimately, the construction phase. It is unknown at this time what the required levels of efforts will be for these future phases, but it is expected to be higher than the RFQ/RFP phases of work. Once a design-build entity is selected, staff will be better informed as to the level of effort needed and will negotiate appropriate contract terms for the services required.

The work efforts by both firms are also in direct support of the SRF loan application currently submitted to the State Water Resources Control Board. The initial authorizations include preparation and support of project planning reports. These reports will be used for both the SRF Loan application Technical Package as well as the basis for the RFP.

FINANCIAL IMPACT

These task orders will be funded from CIP Projects #6004, 6008, 6013, 6014, and 9160, which have a combined budget of \$332,176,955. The associated not-to-exceed budget for these two task orders total \$915,318.

RECOMMENDATION

- i. Move approval of AMENDMENT 1 TO TASK ORDER 2016-11 SCOPE AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE GRAVITY PIPELINE PROJECT (CIP #6008 AND 6004) IN AN AMOUNT NOT TO EXCEED \$314,092 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – KENNEDY/JENKS
- ii. Move approval of AMENDMENT 1 TO TASK ORDER 2016-11 SCOPE AND BUDGET FOR OWNER'S ADVISOR SERVICES FOR THE RECEIVING LIFT STATION, HEADWORKS, AND INFLUENT CONNECTOR PIPELINE PROJECTS (CIP #6013, 6014, and 9160) IN AN AMOUNT NOT TO EXCEED \$451,435 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – BROWN AND CALDWELL

LONG TERM FINANCIAL PLAN 2017 UPDATE

<u>ISSUE</u>

Receipt and Approval of Silicon Valley Clean Water's Long Range Financial Plan January 2017 Update.

BACKGROUND

The attached Long Range Financial Plan ("LRFP", or "Plan") update describes total cash flows that are needed by Silicon Valley Clean Water (SVCW) over the next decade to provide wastewater services to Member communities. This includes funding for operations and maintenance of wastewater facilities, revenue-funded capital projects, Capital Improvement Program projects and their associated debt service payments, and required cash reserve contributions. The document is meant to encourage discussion and support the decision-making process. The Plan provides up-to-date financial information for Member Entities to understand the long term financial impacts of decisions. It may also act as a reference when communicating with internal and external stakeholders.

The Plan conforms to the financial and budgetary aspects of the SVCW Joint Powers Agreement, the adopted 2016-17 operating/capital budgets, and relevant fiscal policies that influence cash flow requirements. It is updated annually and presented at January Commission Meetings in time for Member Entities considering changes to sewer rates. Therefore it is especially critical that the Plan incorporate capital construction schedules, capital expenditure estimates, debt coverage requirements, and estimated changes in operating costs.

DISCUSSION

The majority of funding needs reflected in the LRFP relates to SVCW's Capital Improvement Program. In 2006, engineering studies determined the majority of SVCW's fixed assets were beyond their useful lives and needed replacement. SVCW thereafter initiated its Capital Improvement Program (CIP) in order to replace and rehabilitate its wastewater conveyance and treatment system in a structured and prioritized manner. Now in its eighth year, the CIP has completed over 100 projects and to date has spent \$225 million to rebuild, rehabilitate, and upgrade its facilities. A 2015 CIP update included new information as well as regulatory projects. It is now estimated that \$590.4 million remains to be spent, bringing total estimated CIP expenditures to \$815 million when the projects are completed in fiscal year 2024-25.

	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	I										
Gravity Pipeline		Ş	5230.55N	Λ										
Front-of-Plant Facilities		ş	5100.97N	Л										
Pump Stations / Pipelines					\$64.	24M								
Nutrient Removal							\$103	8.7M						

This LRFP describes the structure, timing, and amount of all expenditure increases to inform SVCW Member Entities as we plan for the future. For example, the CIP is being financed through a long-term debt strategy; this has advantages over a pay-go strategy as debt spreads costs over the expected useful life of projects. Debt can be a tool to provide fairness to different generations of ratepayers while facilitating moderate and consistent rate increases.

When considering general debt strategies, funding alternatives were developed using three broad strategies: 1) Publically traded revenue bonds; 2) Government loans; or 3) a Hybrid combination of bonds and Government Loans. For planning purposes, the LRFP recommends that Members incorporate the Hybrid Scenario into its future financial plans. Compared to a financing mostly through the public bond market, a Government Loan Program saves ratepayers approximately \$42 million in current dollars via lower interest rates and advantageous repayment mechanisms. With a weighted average cost of capital of 3.65%, the Hybrid scenario still takes advantage of governmental loan programs that may allow debt service payments to begin up to five years after project completion. Further, the Hybrid scenario will still insulate SVCW from interest rate increases when possible by taking advantage of state and federal loan program rate subsidies.

FINANCIAL IMPACT

Concurrent with the launch of the CIP in 2008, SVCW Member Entities began proactively raising sewer charges in order to meet funding requirements. As SVCW now enters a concentrated period of capital expenditures, rates will continue to need adjustment as debt service payments become due.

The recommended funding scenario requires total cash flows of \$38.4 million in fiscal year 2017-18, and reaches \$76.8 million over the next decade. The majority of this increase is to meet new debt payments necessary to fund capital projects. Once fully in place, new debt service payments are estimated at \$32.9 million annually.



Compared to the January 2016 LRFP, this Plan 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.

SVCW will strive to obtain the lowest-cost financing available through government loan programs. As an example, the federal government recently passed legislation to fund the Water Infrastructure Finance and Innovation Act ("WIFIA"), with the mission to

accelerate investment in water and wastewater infrastructure by providing long-term, low-cost supplemental credit assistance to creditworthy water and wastewater projects of national and regional significance. SVCW is actively pursuing WIFIA funding today. That said, until there is certainty that government loans will be available, the three financing alternatives below were updated to reflect the changed financing environment. Whereas last year's January 2016 LRFP incorporated a Majority Government Loan financing scenario, SVCW now recommends that Members prepare for a Hybrid Financing Scenario.

RECOMMENDATION

Move approval of RECEIPT AND ACCEPTANCE OF SILICON VALLEY CLEAN WATER LONG RANGE FINANCIAL PLAN 2017 UPDATE



2017

Long Range Financial Plan



Silicon Valley Clean Water

Presented January 12, 2017 by:

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Silicon Valley Clean Water Commissioners

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Member Agency

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



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SECTION 1 – EXECUTIVE SUMMARY AND INTRODUCTION

This Long Range Financial Plan ("LRFP"; or the "Plan") describes the total cash flows required by Silicon Valley Clean Water ("SVCW"; or the "Authority") over the next decade to provide wastewater services to the communities it serves. This includes funding for operations and maintenance of wastewater facilities, revenue-funded capital projects, Capital Improvement Program projects and their associated debt service payments, and necessary cash reserve contributions. Meant to encourage discussion and support decision making, this Plan provides up-to-date financial information so that SVCW Member Entities (as herein defined) have the information needed to understand the financial implications of those decisions and to communicate with internal and external stakeholders.

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 Capital Improvement Program ("CIP") to replace and rehabilitate the wastewater conveyance and treatment system in a structured and prioritized manner. Now in its eighth year, the CIP has completed over 100 projects and spent \$225 million. The 2015 CIP update remains the Authority's guiding document and estimates, inclusive of spending to date, the CIP will cost \$815 million when measured in September 2016 dollars.

This Plan incorporates the guidelines from the SVCW Joint Powers Agreement, the adopted 2017-18 operating and capital plans, as well as those relevant fiscal policies that influence cash flow requirements. The LRFP is updated each year to measure SVCW financial position relative to anticipated cash flows from the SVCW Member Entities. It is especially critical that SVCW develops accurate CIP construction and cost schedules, strengthens its credit ratings for future bond issuances and government-sponsored loan programs, and manages operating costs within forecasted levels.

Compared to the January 2016 LRFP, this Plan incorporates 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.

SVCW will strive to obtain the lowest-cost financing available through government loan programs. As an example, the federal government recently passed legislation to fund the Water Infrastructure Finance and Innovation Act ("WIFIA"), with the mission to accelerate investment in water and wastewater infrastructure by providing long-term, low-cost supplemental credit assistance to creditworthy water and wastewater projects of national and regional significance. SVCW is actively pursuing WIFIA funding today. That said, until there is certainty that government loans will be available, the three financing alternatives below were updated to reflect the changed financing environment. Whereas last year, in its January 2016 LRFP projected results of the Majority Government Loan financing scenario, SVCW now recommends that Members prepare for a Hybrid Financing Scenario.

Financing Scena	ario Comparisons		
	Majority		Majority
CIP Comparison	Bonds	Hybrid	Govt Loans
Approximate Allocation, Bonds vs. Govt Loans	70/30	50/50	40/60
Amount Financed through Bonds & Current Funding	\$413,300,000	\$294,300,000	\$246,430,000
Amount Financed through Government Loans	177,000,000	296,000,000	343,870,000
Total Financing	\$590,300,000	\$590,300,000	\$590,300,000
Weighted Average Cost of Capital	4.11%	3.65%	3.41%
Maximum Annual Debt Service	\$47,000,000	\$45,000,000	\$44,000,000
Total CIP Debt Service thru 2060 (Nominal)	\$1,344,000,000	\$1,328,000,000	\$1,292,000,000
Increase / (Decrease) vs. Majority Govt Loans	\$52,000,000	\$36,000,000	-
Total CIP Debt Service thru 2060 (PV) Increase / (Decrease) vs. Majority Govt Loans	\$614,000,000 <i>\$48,000,000</i>	\$572,000,000 <i>\$6,000,000</i>	\$566,000,000 -

Concurrent with the launch of the CIP, SVCW Member Entities began proactively raising sewer charges in order to meet funding requirements. As SVCW enters a concentrated period of significant capital expenditures, it must carefully consider the impact on Member Entities' sewer rates. While total cash flow requirements in FY 2016-17 will be approximately \$35 million, annual expenditures are projected to reach \$76.8 million by FY 2026-27.



The majority of expenditure increases will be to service new debt, estimated at approximately \$32.9 million once fully in place. Other non-debt related expenditures are less impactful; an average annual increase of less than 4 percent. This LRFP describes the structure, timing, and amount of all expenditure increases to inform SVCW Member Entities as we plan for the future.

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INTRODUCTION

Purpose of Long-Term Financial Planning

SVCW Member Entities' sewer rates provide the underlying repayment security for all SVCW financing. As such, in 2008, SVCW developed a Five Year Financial Plan (the "Financial Plan") to provide a financial roadmap for funding the CIP and ongoing operating costs. The Financial Plan was frequently updated and presented to the Commission (as hereinafter defined) to incorporate CIP budget figures. It provides a roadmap that Member Entities follow 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 (as hereinafter defined) 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 LRFP will be enacted through setting of annual budgets, achieving financial performance measures, and incorporating Commission-directed actions. The LRFP is based upon financial planning models that include long-term forecasts of operating and capital expenditures. It includes reasonably conservative assumptions and attempts to account for uncertainties. It aims to maintain good standing in the credit markets to provide ready access to cost-effective capital financing. It evaluates the capital financing and debt service coverage policies to optimize cash funding of capital investments. Finally, it evaluates cash reserve policies to consider optimal uses and levels of reserves.

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

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

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

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

Organizational and Business Structure

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

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

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

Governance & Management

The JPA is governed by a four-member "Commission" consisting of one appointed person from each of the SVCW Member Entities' governing bodies. There are 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 and the Long Term Financial Plan. The Budget reflects a progressive approach to fund wastewater operations while controlling costs, minimizing unplanned expenditures, limiting risks, and investing in projects and programs that provide the long term resources needed for the community.

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

Comparative Residential Sewer Charges

Based upon previous Financial Plans, SVCW Member Entities have already adopted significant rate increases since 2008 to generate their allocable share of the CIP and capital program costs. The following table shows the single family residential monthly sewer rates of each participating SVCW Member Entity over the past 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 2015-16 201															
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							

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



Regulations and Permits

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

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

SVCW currently operates under a five-year NPDES permit that is set to expire September 30, 2017, and is currently being renewed through 2022. SVCW is an active member in the Bay Area Clean Water Agencies ("BACWA"), a consortium of publicly-owned treatment works agencies that operate within the nine-county San Francisco Bay Area. BACWA is central to the NPDES permit process, since some requirements imposed by an NPDES permit are most efficiently fulfilled as a group. SVCW, through BACWA, meets the provisions related to overall receiving water quality monitoring, Total Maximum Daily Load and Site Specific-Objective Support, Mercury Special Studies, Copper Action Plans, and Cyanide Action Plans.

Regulatory requirements of the NPDES program are anticipated to increase. Many California agencies have already been required to significantly increase treatment to remove ammonia, nitrates, and further reduce pathogens like coliform and certain viruses. Studies are also underway regarding Active Pharmaceutical Ingredients to monitor the cumulative effects of pharmaceuticals and personal products, including anti-psychotic and antihypertensive drugs.

Additionally, nutrients like nitrogen and phosphorus are found in municipal waste. When excessive, these nutrients are considered harmful water pollutants leading to such problems as algae blooms. Nutrient management is an important planning consideration for California wastewater treatment operators – both to remove and to recover these resources. This LRFP includes estimated costs needed to address nutrients in SVCW's wastewater.

Financial Modeling

The CIP calls for spending \$590 million in capital expenditures over the next decade. The Financial Plan documents the funding strategy, risks to this strategy, and the mitigation steps and alternative funding solutions available. Prior to issuing debt SVCW updates a capital finance model to evaluate the impact of capital program spending, operations and maintenance costs, and debt service to its, and the Member Entities', financial condition. To that end, the SVCW Chief Financial Officer oversees the ongoing maintenance of quantitative modeling that includes, but is not limited to, the following:

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

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

The Plan takes into account each of these factors to develop an all-inclusive projection of future cash flow requirements. As part of the Plan, the Financial Model was created to generate and assess multiple debt-based financing alternatives for the CIP. The three Scenarios discussed and compared in detail in this report include the following:

- **Majority Bonds Scenario**: Majority of financing (approximately 70%) would come from issuance of wastewater revenue bonds secured through Member sewer revenues;
- **Majority Government Loans Scenario**: Majority of financing (60%) would be through the California State Water Resource Control Board's State Revolving Fund Loans (SRF) and the federal Water Infrastructure Finance and Innovation Act (WIFIA). These loans would be secured by pledging Member sewer revenues.
- **Hybrid Scenario**: CIP would be financed through an approximate 50/50 blend of the above two sources.

Further analysis and results are described in Sections 2 and 3 of this Plan.

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SECTION 2 – GUIDING DOCUMENTS AND PRINCIPLES

Audited Financial Reports

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

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

Operating Budgets

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

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

Used as a baseline for this study, the 2016-17 Budget was \$39.1 million. This includes \$22.5 million in operating expenditures, \$1.5 million for revenue-funded capital projects, additional cash reserve contributions of nearly \$1.8 million, and debt service payments estimated at \$13.26 million.

2016-17 Budgeted Expenditur	es	
Description		2016-17 Adopted Budget
Net Operating Expenditures	\$	22,549,103
Revenue-Funded Capital		1,530,039
Reserve Designations		1,785,302
Debt Service Payments		13,265,210
TOTAL Expenditures & Designations	\$	39,129,654

Expenditure Allocation

SVCW annual operating and maintenance costs are allocated according to the Joint Powers Agreement. Specifically, administrative, safety, and conveyance operating costs are allocated on the basis of each Agency's proportionate share of total flow contributed to the joint facilities. Pump Station maintenance and operation costs are allocated on the basis of the actual costs charged to each pump station and shall be borne by the agency served by each particular pump station. However, the maintenance and operation costs of the booster station are allocated on a percentage basis to West Bay Sanitary District and Redwood City at 92% and 8%, respectively. Treatment plant operation and maintenance costs are allocated on the basis of each agency's proportionate contribution of hydraulic flow ("Flow"), Biochemical Oxygen Demand ("BOD") and Suspended Solids ("SS") to the joint facilities. The total annual treatment plant maintenance and operation costs are allocated on the basis of Biochemical Oxygen Demand and 40% to Suspended Solids. Using these allocations, the 2016-17 Operating Budget assigns costs according to the following three-year flow and loading averages:

2016-17 Budget Revenue Allocation to Member Agencies - Adopted													
						Redwood		West Bay					
Description				Belmont		City	San Carlos	San District	TOTAL				
Allocation Factors													
Flow (Q)				13.48%		45.64%	14.31%	26.57%	100%				
BOD (B)				12.81%		44.79%	14.49%	27.91%	100%				
Suspended Solids (S)				13.71%		42.73%	14.99%	28.57%	100%				
	W	eightings	;										
Operating Expenditures	Flow	BOD	<u>ss</u>										
Operations	26.5%	33.5%	40.0%	\$1,107,926	\$	3,668,136	\$1,215,398	\$ 2,309,134	\$ 8,300,593				
Maintenance	26.5%	33.5%	40.0%	791,897		2,621,823	868,713	1,650,468	5,932,900				
Laboratory	26.5%	33.5%	40.0%	219,387		726,348	240,668	457,244	1,643,647				
Environmental Services	26.5%	33.5%	40.0%	146,076		483,630	160,246	304,451	1,094,402				
Engineering	26.5%	33.5%	40.0%	67,693		224,120	74,260	141,086	507,159				
Safety	100.0%	0.0%	0.0%	49,981		169,224	53,059	98,516	370,779				
Information Services	26.5%	33.5%	40.0%	233,247		772,238	255,873	486,132	1,747,490				
Administrative Services	100.0%	0.0%	0.0%	455,484		1,542,158	483,529	897,790	3,378,961				
Subtotal				\$3,071,690	\$	10,207,676	\$3,351,744	\$ 6,344,821	\$22,975,931				
Subtract Miscellaneous Income	26.5%	33.5%	40.0%	\$ 56,971	\$	188,621	\$ 62,498	\$ 118,739	\$ 426,829				
2016-17 Net Operating Revenue Requ	ired			\$3,014,719	\$	10,019,055	\$3,289,247	\$ 6,226,082	\$22,549,103				

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

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

Unrelated to the number of votes originally ascribed to Members in the Joint Powers Agreement, the above capital cost distributions are derived from each member entity's share of maximum capacity rights of the originally-built facilities ("Stage 1" capacity) plus its share of

expansion capacity ("Stage 2"), based on average dry weather flows.

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

2016-17 Capital and Reserve Allocation Calculations														
Description		City of Belmont		Redwood City	S	City of an Carlos		West Bay San District		TOTAL				
Capital and Reserve Allocation Factors		9.45%		48.57%		15.14%		26.84%		100.00%				
CAPITAL IMPROVEMENT														
Plant (cash-funded capital)	\$	54,700	\$	281,143	\$	87,636	\$	155,361	\$	578,840				
Pump Stations		89,888		461,997		144,012		255,302		951,199				
Booster Station		-		-		-		-		-				
Subtotal	\$	144,589	\$	743,140	\$	231,648	\$	410,662	\$	1,530,039				
RESERVE CONTRIBUTIONS														
CIP & SRF Debt Service Reserve	\$	189,000	\$	971,400	\$	302,800	\$	536,800	\$	2,000,000				
Operating Budget & Capital Reserve		(20,289)		(104,279)		(32,505)		(57 <i>,</i> 625)		(214,698)				
Subtotal	\$	168,711	\$	867,121	\$	270,295	\$	479,175	\$	1,785,302				
Member Contributions	\$	313,300	\$	1,610,261	\$	501,943	\$	889,838	\$	3,315,341				

Capital Improvement Program

SVCW is in the process of rebuilding, rehabilitating, and updating its wastewater conveyance and treatment facilities which are approaching the end of their useful operating lives. A tenyear Capital Improvement Program was developed in 2008 to proactively address near-term and long-term capital needs. Engineering staff periodically updates the CIP to include projects that will address known wastewater facility deficiencies. This includes substantial rehabilitation and replacement of aging infrastructure and equipment; improvements and additions to the treatment plant and conveyance system that substantially enhance reliability and increase hydraulic capacity; technological upgrades, required regulatory treatment improvements and system-wide automation projects designed to improve operational efficiency and reliability (to reduce future operating and maintenance expenses); and additional electricity co-generation facilities. The amounts charged to CIP include all capitalized components of projects such as planning, design, engineering, construction, and construction management. The costs also include interest incurred during construction, as well as certain administrative costs like insurance and internal labor directly related to the CIP work. Since its formal launch in fiscal year 2008-09, the CIP has spent approximately \$225 million.



Since 2009 the majority of CIP spending was on the replacement of aging pipes, the rehabilitation of treatment facilities including energy reliability, process automation, and solids handling improvements.

CIP Expenditures since 2006	-07	
Program		Value
Conveyance System	\$	76,850,732
Energy and Automation		73,998,241
General Plant Facilities		34,895,246
Solids Handling		16,651,177
Plant Process		11,118,300
Corrosion and Odor Control		10,600,986
Nutrient Removal		649,490
CIP Support		402,550
TOTAL	\$	225,166,722

Forecasted CIP Expenditures

Going forward, remaining CIP expenditures are estimated at \$590 million through fiscal year 2024-25, bringing total anticipated CIP expenditures since the program's inception to \$815 million.



The majority of anticipated CIP costs can be attributed to replacement of the aging conveyance system infrastructure. The conveyance system is comprised of 14 projects, with a remaining 2016 program plan amount of \$396 million. These projects cover replacement of the influent force main with a gravity pipeline, construction of a receiving lift station, screening and grit removal (collectively, "headworks"), peak flow and storm water handling facilities, influent connector pipeline, and replacement of the five pump stations with three upgraded pump stations. Engineering planning, environmental review, and permitting activities are ongoing for the conveyance system program and it is anticipated that construction dollars will begin to be spent in fiscal year 2017-18.

Projects are necessarily sequenced according to each facility's readiness for providing their necessary services. For this reason, CIP project construction is scheduled in the most efficient timeline possible. As an example, gravity pipeline construction will commence earlier in the

project whereas pump stations are to be constructed later in the timeline to align with the completion of the gravity pipelines.

	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			\$90.96N	1										
Gravity Pipeline		Ş	230.55N	Л										
Front-of-Plant Facilities		Ş	5100.97N	Л										
Pump Stations / Pipelines					\$64.	24M								
Nutrient Removal							\$103	8.7M						
Nutrient Removal					304 .	271VI	\$103	8.7M						

As construction is completed, fixed assets of each Member Entity would be increased by their allocable percentages. The largest projects, including the gravity pipeline and nutrient removal, will produce capital expenditures of above \$100 million for two consecutive years. The below table also illustrates how capital projects expenditures are allocated amongst member entities.

	SVCW Remaining Capital Expenditures - By Fiscal Year End and Member Allocation																
Member Entit	y		2016-17		2017-18	2018-19	2019-20		2020-21		2021-22		2022-23		2023-24	2024-25	Total
Belmont	9.45%	\$	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	48.57%		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	15.14%		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	26.84%		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 and Capital Financing

SVCW debt structures aim to achieve generational equity between residents, achieved at the lowest costs of capital, while mitigating market and credit risk. Long term debt is never used for operating purposes. Instead, long term debt is solely used to finance capital assets that have long useful lives. When appropriately structured, long term debt ensures current ratepayers pay for the assets they use and, conversely, prevents future generations from either subsidizing or being subsidized by today's ratepayers.

Significant capital acquisitions can be funded through traditional bonds or alternative financing mechanisms such as government loans (e.g. SRF and WIFIA) and/or public/private partnerships. Long term financings should be structured to minimize transaction-specific risk and total debt portfolio risk to SVCW and its Member Entities.

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

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

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

Short-term debt has terms to maturity of less than five years and may be issued to either provide funds to finance operating cash flow deficits within a single fiscal year or to provide financing for the acquisition and/or construction of long-lived capital projects to be refunded by long-term debt financing described above. This includes commercial paper notes that are issued to provide interim project financing, Bond Anticipation Notes which may have a final maturity of not more than five years and are issued in anticipation of the issuance of wastewater revenue bonds, and a short term line of credit not to exceed five years.

Cash Reserves Policy

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

- The Operating Reserve must be maintained at a minimum balance of 10% of the approved Operating and Capital Budget, plus \$1 million. This fund allows for continued operation in times of local, regional state, or national crisis or for unbudgeted, unexpected operational, maintenance or capital expenses approved by the SVCW Commission. As of November 30, 2016 the amount held in this reserve was \$3.5 million.
- The Capital Improvement Program Reserve Fund goal is to accrue funds equal to the annual calculated depreciation of SVCW facilities to meet the long term needs of replacing capital assets when their useful life has been met. This will ultimately allow most major expenses in the future to be paid for on a pay-as-you go basis and limit the
need for borrowing. Per policy, a minimum of \$1 million is added to the Capital Improvement Program Reserve Fund each fiscal year through fiscal year 2020-21, after which it shall follow prescribed increases until the annual contribution equals annual depreciation. As of November 30, 2016 the CIP reserve was \$14.9 million.

• Stage 2 Capacity Reserve is utilized to pay for capital projects that increase the treatment capacity of SVCW facilities. This fund is a pay as you go fund that derives income from fees paid by new customers to buy capacity for the use of SVCW facilities. Projects that enhance capacity will be built when there are adequate cash reserves to fund the projects if needed to accommodate additional flow or loadings or at the discretion of the SVCW Commission. As of November 30, 2016 the amount held in this reserve was \$8.9 million.

Investment Policy

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

SECTION 3 – MODELING ASSUMPTIONS

The Model projects the debt service cost of funding the SVCW's Capital Improvement Plan over the next 40+ years (the financing period identified to repay the debt) in total and allocated between each member agency. Currently there is approximately \$590 million worth of capital projects identified for funding over the next nine years. The key functions of the Model are to compare multiple scenarios using different financing tools, compare overall debt service costs and calculate SVCW debt service costs for each SVCW Member Entity. The Model also optimized variables by considering the impact of lengthening repayment terms, capping maximum debt service levels, adjusting timing of repayment, and estimating interest rates.

For each Scenario analyzed, the Model produces fundamental outputs such as the total aggregate debt service, maximum aggregate annual cost, average annual debt service cost, weighted average cost of capital and weighted average CIP repayment year, among a few other debt summary outputs. Additionally the Model shows the height and length of the "plateau" of this plateau, the critical point that influences members' sewer rates. Since the CIP requires financing over multiple years, the financing costs accordingly rise. The model also compares efficiency versus affordability of financing the debt by determining the length of each repayment period and financing rates.

Debt Structure

The Model generated and compared multiple debt financing scenarios to fund the total CIP by comparing interest rates and average costs per year. The flexibility of the Model allows for changing multiple assumptions, including interest rates, the timing and structure of SRF or bond repayment, and the mix of financing methods such as SRF Loans or publicly issued bonds.

SRF Loans are modeled with a similar structure as revenue bonds: thirty year amortization, level debt service and an interest rate equal to half of the interest rate of California General Obligation Bonds. SRF Loans are also required to have a debt service reserve fund equal to one year's debt service; though this reserve can be satisfied with a combination of cash from SVCW and its Member Entities. For example, tax-exempt interest rates in the current AAA bond market for a thirty year maturity were approximately 3.03% as of January 04, 2017; or approximately 143 basis points higher than the current SRF Loan's interest rate of 1.60%. Including the additional execution costs of a publicly offered debt issue, SRF Loans are clearly a cost effective strategy.

Economic Factors

Local Economic Indicators

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

Unemployment

The most recent available 2016 data from the United States Bureau of Labor Statistics shows the unemployment rate for San Mateo County at 3.1%, approximately 2.4% and 1.8% lower than the State and National rates, respectively. The cities of San Carlos, Redwood City, Menlo Park and Belmont show similar unemployment rates of 3.0%, 2.8%, 2.4% and 2.7% respectively.



County Assessed Valuations

San Mateo County has approximately \$177 billion in total assessed real property valuation, an increase of \$12.6 billion (or 7.7%) from the previous year.



Taxable Sales

During calendar year 2014, the County of San Mateo reported a 4.7% increase over total taxable sales from calendar year 2013. This followed a 5.1% increase in calendar year 2013.

Median Household Income

The median household incomes and effective buying incomes are consistently above the State and National income rates for San Mateo County, City of Belmont, City of San Carlos, City of Menlo Park and Redwood City. No information exists solely for the West Bay Sanitary District, but the chart below includes data for the city of Menlo Park, which is the largest contributor to the West Bay collection system. The Median Household Income reflects a household's earned income before taxes. The 2016 economic data from the Nielson Rating reports show that San Mateo County, for example, is 174% and 152% of the Nation's and State's median household income, respectively.



Median Household Income

Source: Claritas/Nielson, 2015 and 2016

Effective Buying Income

Residents of the cities of Redwood City, Belmont and San Carlos show high effective buying income levels in comparison to the Nation and State medians. The Effective Buying Income is the amount of a consumer's disposable income; it reflects the amount of money a consumer has to spend after taxes. The city of Redwood City is 162% and 141% of the Nation and State effective buying income levels; San Carlos is 205% and 179% of the Nation and State effective buying income levels; the city of Menlo Park is 209% and 183% of the Nation and State effective buying income levels and the city of Belmont is 184% and 160% of the Nation and State effective buying income levels, respectively.



Source: Claritas, 2015 and 2016 Nielson Rating Reports

Interest Rates

Based upon market conditions, every financing tool has projected interest rates depending on the type of the debt whether it is fixed or variable. All SRF loans are projected at 2.50%, excluding the SRF loan projected to be obtained in 2017 that has an interest rate of 2.0%. The fixed rate bonds have a projected interest rate of 4.75% and 5.25% for bonds financed in 2017 and 2019 or later, respectively. The Model uses a total projected variable rate of 3.40% inclusive of annual fees. At present, tax-exempt rates have risen dramatically from their near historical lows in July 2016 across the yield curve.

The table below provides tax-exempt interest rates for the Municipal Market Index as of December 22, 2016 and compares current rates to historical rates by term. The data demonstrates that interest rates, while near historical lows throughout the yield curve, were lower historically in the shorter maturities than in the later years, i.e., years 20 through 30.



Current "AAA" MMD and Percentage of Time Historical "AAA" MMD has been Lower than Current "AAA" MMD

Source: Thomson Municipal Market Monitor

The two yield curves shown below represents the interest rates for the maturity years 1 - 30 for October 28, 2015 (the sale date of SVCW 2015 Bonds) in comparison to January 04, 2017. As described herein, interest rates across the first 25 years of the yield curve significantly increased, with the front end of the yield curve (the first ten years) the most pronounced. Until recently, the slow national economic recovery, geopolitical issues and economic uncertainties in Europe and Asia prompted central banks to keep interest rates low in hopes of spurring economic recovery. The European central bank lowered the amounts of bonds to be bought monthly but expanded the timeframe to purchase bonds. Notwithstanding the global economy,

the United States has recently experienced increases in municipal interest rates and widening credit spreads. The Federal Reserve increased the Fed Funds rate by ¼ percent on December 15, 2016 and expects to raise rates three additional times during 2017. However, with interest rates still near historical lows it remains an advantageous time to finance projects as recommended by the Plan.



Source: Thomson Municipal Market Monitor

Interest earnings on Project Funds and Reserves:

It is estimated that funds held by SVCW related to the CIP, including reserve funds required by the SRF Loan program, will receive investment earnings of 1.0% annually over the long term. For the immediate future, short-term rates are expected to rise due to the Federal Reserve's action in December. The Composite Forecast provided by Bloomberg predicts the US 3-Month Libor increasing from its present rate of 1.00% to 1.74% by the first quarter of 2018. Additionally, the Bloomberg Forecast predicts the 2-Year US Treasury will rise from 1.20% to 1.82% by the first quarter of 2018. It is not expected that short-term interest rates will rise above the borrowing levels (conservatively assumed at 2.75%) forecasted in the Plan.

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SECTION 4 – HISTORICAL FINANCIAL PERFORMANCE

Historical Expenditures

The chart below reflects how total expenditures have increased over the past decade, largely the result of higher debt service payments that finance SVCW's Capital Improvement Program.



Revenue-Funded Capital Expenditures

Revenue-Funded Capital Expenditures are for capital projects that are generally less than \$1 million and can be completed within one year. These projects also 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. Due to their relatively minor cost, it is appropriate to fund such projects using available cash funds rather than financing them using long-term debt structures.

Since 2006-07, SVCW has spent approximately \$25.5 million on Revenue-Funded Capital Expenditures. Prior to formally adopting the Capital Improvement Program in fiscal year 2007-08, Member Entities made relatively large cash contributions to address SVCW's immediate capital project needs. Since 2008-09, however, SVCW has averaged \$1.6 million annually in Revenue-Funded capital expenditures.



Debt Service

Debt provides adequate funding for future phases of the SVCW's CIP. Through its Member Entities, SVCW has already funded or has received funding commitments of nearly \$247 million for capital improvements. Sources of funds include Wastewater Revenue Bonds, Member Entity cash contributions, SRF Loans, and specific grants.

Source of CIP Funds to date	e (\$ millions)	
	All-in TIC /	
Description	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

State Revolving Fund Loans

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

SVCW Wastewater Revenue Bonds

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

Line of Credit

SVCW holds a \$30 million line of credit to provide bridge financing for Capital Improvement Program (CIP) projects. It remains a valuable tool to manage cash flow and to date has reduced overall borrowing costs. Specifically, the LOC furnishes interim cash flows whenever SVCW awaits reimbursement from the state. When borrowing through SRF, SVCW pays for services and afterwards submits paid invoices to the state for reimbursement. Reimbursement generally takes 90 to 120 days and the LOC acts as a bridge loan during this period. Bond issuance has also been delayed during the past five years by using LOC proceeds. This has saved overall costs to ratepayers by taking advantage of the very low short-term interest rates of the LOC.

Cash Reserves

The SVCW Commission has adopted cash reserve policies that document the goals and amounts intended to be held in reserves. Each year, the SVCW budget process reviews reserve balances and considers adjustments that may be necessary to meet the policy.

The SRF Loan Program will require the funding of debt service reserves for each loan at an amount equal to one year's debt service. The SWRCB requires the reserve to be funded prior to the completion of construction. This policy allows SVCW Member Entities the opportunity to allocate funding on a yearly basis to meet the specific requirement. The Model analyzes the funding of the debt service reserve funds in annual installments over various periods of time; the periods of time correlate to the anticipated number of years to complete the projects that are related to the specific loan.

Unit Costs

SVCW expenditures have increased significantly since 2007-08. SVCW has initiated critical repair programs requiring additional staff, and also established an Engineering department to develop and manage the CIP. Most importantly, debt was issued to finance the CIP, prior to which a limited number of capital projects were cash-funded by Members.

Reflecting these investments in facilities, SVCW unit costs predictably rose during this period. Unit costs were further influenced by volatility in operating volumes (Flow, Biological Oxygen Demand, and Total Suspended Solids) in response to economic and drought conditions.



It is important to note that the Bay Area has been experiencing an extended drought since fiscal year 2010-11. A drought can change the characteristics of wastewater, including a rise in relative ammonia levels and grit. While the volume of water flow declines during a drought, customer behaviors in terms of Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS) remain relatively stable. Note that during the past several years of drought, cost per thousand gallons of flow was accordingly higher. Other unit cost increases (BOD and TSS), were less pronounced. The following charts provide a side-by-side comparison of operating volumes and unit costs.













SECTION 5 – TEN-YEAR FINANCIAL PROJECTIONS

In fiscal year 2017-18, applying the recommended Hybrid Scenario, SVCW anticipates total expenditures will be \$38.4 million including all costs of operations, debt service, revenue-funded capital, and reserve contributions:

			Projected S	VCW Cash Flow	w Requiremen	ts - Aggregate				
Description	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Operating Expense	\$23,371,110	\$24,223,432	\$25,107,202	\$26,023,600	\$25,026,087	\$25,911,073	\$26,766,006	\$27,584,639	\$28,360,177	\$29,085,240
Existing Bonds	9,805,603	9,791,073	9,796,799	9,195,000	9,190,000	9,186,875	9,180,125	9,189,125	9,168,750	9,159,000
Existing SRF Loans	2,541,983	2,541,983	2,541,983	2,541,983	3,133,229	3,133,229	3,133,229	3,133,229	3,133,229	3,133,229
New Bonds	-	5,120,598	13,380,490	13,380,490	14,171,448	14,171,448	17,707,620	17,707,620	17,707,620	17,707,620
New SRF Loans	-	-	688,591	3,102,545	3,102,545	5,527,642	5,527,642	5,527,642	7,750,879	7,750,879
New WIFIA Loans	-	-	-	-	-	-	-	-	7,452,943	7,452,943
Revenue-Funded Capital	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
New Cash Reserves	1,148,947	1,148,947	1,000,000	1,212,549	1,212,549	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
TOTAL	\$38,367,643	\$44,326,033	\$54,015,065	\$56,956,166	\$57,335,857	\$60,430,267	\$64,814,622	\$65,642,255	\$76,073,599	\$76,788,912

- Operating expenses will increase by less than 4% per year until 2021-22, when they are anticipated to decline as benefits derived from a food waste-to-energy project are realized. Additionally, the completion of automation projects in 2020-21 facilitates the transition to a single work shift, producing subsequent annual savings of up to \$1.2 million once completed over a three year period.
- Existing bond debt service payments remain \$9.2 to \$9.8 million, including bond issuances from 2008, 2009, 2014, and 2015.
- Current SRF loan payments will be \$2.5 million through 2020-21 to finance the Control Building and Wastewater Treatment Improvements loans. A third SRF loan for Conveyance System Planning is assumed to begin repayment in 2021-22.
- Debt service payments comprised of new bonds, SRF loans, and WIFIA loans will commence in 2018-19 at \$5.1 million, and rise to a combined \$32.9 million by 2025-26.
- Revenue-funded capital remains steady at \$1.5 million annually.
- Additional Cash Reserve contributions of \$10.7 million will be needed over the next ten years to meet SVCW policy and contribute to levels required by SRF Loans.

Operating Expenditures

				SVCW	Operating Exp	penditures					
	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Description	Budget	Forecast									
Personnel	\$ 14,132,794	\$ 14,698,106	\$ 15,286,030	\$ 15,897,471	\$ 16,533,370	\$ 17,194,705	\$ 17,823,870	\$ 18,414,889	\$ 18,961,265	\$ 19,455,944	\$ 19,891,279
Utilities	1,925,638	1,983,407	2,042,909	2,104,197	2,167,323	2,232,342	2,299,312	2,368,292	2,439,341	2,512,521	2,587,896
Administrative Costs	407,828	420,063	432,665	445,645	459,014	472,784	486,968	501,577	516,624	532,123	548,087
Equipment & Supplies	2,646,130	2,725,514	2,807,279	2,891,498	2,978,243	3,067,590	3,159,618	3,254,406	3,352,038	3,452,599	3,556,177
Chemicals	1,135,875	1,169,951	1,205,050	1,241,201	1,278,437	1,316,790	1,356,294	1,396,983	1,438,892	1,482,059	1,526,521
Professional Services	907,539	934,765	962,808	991,692	1,021,443	1,052,086	1,083,649	1,116,158	1,149,643	1,184,133	1,219,657
Contractual Services	1,445,077	1,488,429	1,533,082	1,579,075	1,626,447	1,675,240	1,725,498	1,777,262	1,830,580	1,885,498	1,942,063
Regulatory and Training	375,050	386,302	397,891	409,827	422,122	434,786	447,829	461,264	475,102	489,355	504,036
Total Expenditures	\$ 22,975,931	\$ 23,806,537	\$ 24,667,714	\$ 25,560,606	\$ 26,486,399	\$ 27,446,324	\$ 28,383,038	\$ 29,290,832	\$ 30,163,486	\$ 30,994,232	\$ 31,775,715
Less Misc. Revenue	(426,829)	(435,427)	(444,282)	(453,404)	(462,799)	(2,420,238)	(2,471,965)	(2,524,826)	(2,578,847)	(2,634,055)	(2,690,475)
Net Operating Expend.	\$ 22,549,102	\$ 23,371,110	\$ 24,223,432	\$ 25,107,202	\$ 26,023,600	\$ 25,026,087	\$ 25,911,073	\$ 26,766,006	\$ 27,584,639	\$ 28,360,177	\$ 29,085,240



Revenue-Funded Capital Expenditures

SVCW anticipates investing approximately \$1.5 million annually in critical projects to maintain ongoing operations. The majority of these projects are installed by staff, examples of which include replacement vehicles to maintain a reliable fleet, chopper pumps to reduce maintenance requirements due to clogging, maintenance equipment that reaches the end of its useful life, pump rotating assemblies and dimminutors to ensure pump station reliability.

Debt Service

SVCW Debt Service, based on recommendations to plan for the Hybrid Scenario, will increase as SVCW borrows money to finance its Capital Improvement Program.



The recommended plan selected from three debt-financing alternatives:

Majority Bonds Scenario: Majority Financed through Bonds

- Financing is 70% from Revenue Bonds, 30% from Government Loans
- Fixed interest rates of 4.75% for first bond issued in 2017 and 5.25% thereafter
- One variable rate bond issuance with a total average cost of 3.40%
- No debt service reserve funds required
- Debt service payments start no more than one year from the date of issuance
- Thirty year amortizations



The Majority Bonds Scenario funds the CIP through approximately \$349 million in fixed rate bonds, \$49 million in variable rate bonds, and \$177 million of government loans. This results in a maximum aggregate annual debt service cost of approximately \$47 million (including existing debt service and new CIP). The weighted average cost of capital for the CIP is forecasted to be 4.11% while the weighted average repayment for future CIP is 18.4 years. The new CIP debt service plateau is \$34.7 million.



Hybrid Scenario: A 50/50 financing blend of Revenue Bonds and Governmental Loans

The Model assumes for four capital market funding revenue bond issuances funding \$278.5 million, structured as follows:

- 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

The Model assumes four SRF Loans funding \$161 million in capital, structured as follows:

- 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.

The Model assumes one WIFIA Loan funding \$135 million in capital, structured as follows:

- 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.



The Hybrid Scenario funds a combined \$296 million through Government Loans. The maximum aggregate annual cost increases approximately \$1.0 million from the lowest-cost Majority Governmental Loan Scenario. The weighted average cost of capital for the future CIP is 3.65% (an increase of 24 basis points from the max Governmental Loan Scenario) while the weighted average repayment for future CIP is 20.6 years. The combined new debt service payments will peak at \$32.9 million.



Majority Government Loan Scenario: Majority Financed through SRF and WIFIA programs

- Financing is approximately 40% from Revenue Bonds, 60% from Government Loans
- Four SRF Loans of \$227.3 million, one WIFIA Loan for \$116 million
- SRF Loan interest rates of 2.00% for first two loans issued in 2017 and 2.50% thereafter
- SRF Loans require a debt service reserve fund equal to one year's debt service
- SRF debt service payments begin one year after the completion of the project
- WIFIA Loan interest rates of 3.25%, issued in 2018
- WIFIA debt service payments begin three years after completion of the project
- Thirty year amortizations for SRF loans, thirty-five years for the WIFIA program
- Level debt service throughout, no debt service reserve
- Four fixed rate bond issuances for a combined \$175 million, with interest rates of 4.75% for first bond issued in 2017 and 5.25% thereafter
- One variable rate bond issuance with a total average cost of 3.40%



By maximizing Governmental Loans funding to \$344 million, this scenario results in a maximum aggregate annual cost of approximately \$44.2 million. The weighted average cost of capital for the future CIP is forecasted to be 3.41% while the weighted average repayment for future CIP is



20.1 years. The new CIP debt service plateau is \$31.9 million. The benefit of the Majority Government Loan Scenario, compared to the Majority Bonds Scenario, is a net present value of approximately \$48 million.

Cash Reserves Contributions

The table below shows the projected annual cash reserve contributions to the Capital Improvement Program Fund, its earnings, and the balances for the next ten fiscal years.

				CII	P Cash Reserv	es Forecast					
Description	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Beginning Balance	\$14,271,457	\$16,217,022	\$17,539,628	\$18,875,460	\$20,074,215	\$21,499,631	\$22,939,302	\$24,178,695	\$25,430,482	\$26,694,787	\$27,971,735
Contributions	1,785,000	1,148,947	1,148,947	1,000,000	1,212,549	1,212,549	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Earnings	160,565	173,660	186,886	198,755	212,868	227,122	239,393	251,787	264,305	276,948	289,717
Ending Balance	\$16,217,022	\$17,539,628	\$18,875,460	\$20,074,215	\$21,499,631	\$22,939,302	\$24,178,695	\$25,430,482	\$26,694,787	\$27,971,735	\$29,261,452

Total Cash Flow Projections

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

Total Cash Flow Projections – SVCW Aggregated





			Projected	SVCW Cash Fld	ow Requireme	nts - Belmont				
Description	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Operating Expense	\$ 3,124,618	\$ 3,238,570	\$ 3,356,726	\$ 3,479,245	\$ 3,345,882	\$ 3,464,201	\$ 3,578,501	\$ 3,687,949	\$ 3,791,635	\$ 3,888,573
Existing Bonds	ı	ı	I	ı	I	ı	ı	ı	ı	I
Existing SRF Loans	170,051	170,051	170,051	170,051	225,924	225,924	225,924	225,924	225,924	225,924
New Bonds	ı	483,896	1,264,456	1,264,456	1, 339, 202	1, 339, 202	1,673,370	1,673,370	1,673,370	1,673,370
New SRF Loans	ı	ı	65,072	293, 190	293, 190	522,362	522,362	522,362	732,458	732,458
New WIFIA Loans	ı	I	I	ı	I	ı	ı	ı	704,303	704,303
Revenue Funded Capital	141,750	141,750	141,750	141,750	141,750	141,750	141,750	141,750	141,750	141,750
New Cash Reserves	108,575	108,575	94,500	114,586	114,586	94,500	94,500	94,500	94,500	94,500
TOTAL	\$ 3,544,995	\$ 4,142,843	\$ 5,092,555	\$ 5,463,278	\$ 5,460,533	\$ 5,787,938	\$ 6,236,407	\$ 6,345,855	\$ 7,363,940	\$ 7,460,878



			Projected SV(CW Cash Flow	Requirements	- Redwood Cit	٨			
Description	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Operating Expense	\$10,384,290	\$10,762,995	\$11,155,674	\$11,562,849	\$11,119,632	\$ 11,512,851	\$ 11,892,716	\$ 12,256,453	\$ 12,601,041	\$ 12,923,202
Existing Bonds	5,156,767	5,149,125	5,152,137	4,835,651	4,833,021	4,831,378	4,827,828	4,832,561	4,821,846	4,816,718
Existing SRF Loans	1,272,286	1,272,286	1,272,286	1,272,286	1,559,454	1,559,454	1,559,454	1,559,454	1,559,454	1,559,454
New Bonds	ı	2,487,074	6,498,904	6,498,904	6,883,072	6,883,072	8,600,591	8,600,591	8,600,591	8,600,591
New SRF Loans	I	I	334,449	1,506,906	1,506,906	2,684,776	2,684,776	2,684,776	3,764,602	3,764,602
New WIFIA Loans	ı	ı	ı	ı	ı	ı	ı	ı	3,619,895	3,619,895
Revenue Funded Capital	728,550	728,550	728,550	728,550	728,550	728,550	728,550	728,550	728,550	728,550
New Cash Reserves	558,043	558,043	485,700	588,935	588,935	485,700	485,700	485,700	485,700	485,700
TOTAL	\$18,099,937	\$20,958,075	\$25,627,699	\$26,994,080	\$27,219,571	\$ 28,685,781	\$ 30,779,615	\$31,148,084	\$ 36,181,678	\$ 36,498,712



			Projected S	VCW Cash Flo	w Requiremen	its - San Carlos				
Description	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Operating Expense	\$ 3,409,153	\$ 3,533,482	\$ 3,662,398	\$ 3,796,073	\$ 3,650,566	\$ 3,779,659	\$ 3,904,368	\$ 4,023,783	\$ 4,136,911	\$ 4,242,676
Existing Bonds	1,687,544	1,685,044	1,686,029	1,582,460	1,581,599	1,581,061	1,579,900	1,581,448	1,577,942	1,576,264
Existing SRF Loans	396,588	396,588	396,588	396,588	486, 102	486,102	486,102	486,102	486, 102	486,102
New Bonds	ı	775,259	2,025,806	2,025,806	2, 145,557	2,145,557	2,680,934	2,680,934	2,680,934	2,680,934
New SRF Loans	ı	ı	104,253	469,725	469,725	836,885	836,885	836,885	1,173,483	1,173,483
New WIFIA Loans	ı	ı	ı	I	I	ı	ı	ı	1,128,376	1,128,376
Revenue Funded Capital	227,100	227,100	227,100	227,100	227,100	227,100	227,100	227,100	227,100	227,100
New Cash Reserves	173,951	173,951	151,400	183,580	183,580	151,400	151,400	151,400	151,400	151,400
TOTAL	\$ 5,894,336	\$ 6,791,423	\$ 8,253,574	\$ 8,681,332	\$ 8,744,229	\$ 9,207,765	\$ 9,866,689	\$ 9,987,652	\$ 11,562,247	\$ 11,666,335



		Proje	cted SVCW Ca	sh Flow Requi	rements - Wes	it Bay Sanitary	District			
Description	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Operating Expense	\$ 6,453,048	\$ 6,688,384	\$ 6,932,404	\$ 7,185,433	\$ 6,910,007	\$ 7,154,363	\$ 7,390,420	\$ 7,616,455	\$ 7,830,590	\$ 8,030,789
Existing Bonds	2,961,292	2,956,904	2,958,633	2,776,890	2,775,380	2,774,436	2,772,398	2,775,116	2,768,963	2,766,018
Existing SRF Loans	703,058	703,058	703,058	703,058	861,749	861,749	861,749	861,749	861,749	861,749
New Bonds	I	1,374,368	3,591,323	3,591,323	3,803,617	3,803,617	4,752,725	4,752,725	4,752,725	4,752,725
New SRF Loans	I	I	184,818	832,723	832,723	1,483,619	1,483,619	1,483,619	2,080,336	2,080,336
New WIFIA Loans	I	I	ı	ı	ı	ı	ı	I	2,000,370	2,000,370
Revenue Funded Capital	402,600	402,600	402,600	402,600	402,600	402,600	402,600	402,600	402,600	402,600
New Cash Reserves	308,377	308,377	268,400	325,448	325,448	268,400	268,400	268,400	268,400	268,400
TOTAL	\$10,828,376	\$12,433,693	\$ 15,041,237	\$ 15,817,476	\$15,911,524	\$16,748,784	\$ 17,931,911	\$ 18, 160, 663	\$20,965,733	\$21,162,987

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SECTION 6 – SENSITIVITIES

Traditional risks to the efficient completion of large capital plans are unanticipated increases to inflation and interest rates. The risks of inflation and rising interest rates are outside the control of SVCW; however, strategies can be implemented to mitigate these risks. The Plan, for instance, assumes a 4% inflation factor in operating costs. Further, the interest rates utilized by the Model are conservative and generally based on historical averages and, as a result, have significant cushion versus the current market.

To assess the impact of interest rates that may be higher than the conservative rates assumed in each Scenario, a sensitivity-analysis was conducted by increasing the weighted cost of capital by 50 basis points (0.50%). An increase to current market rates of 50 basis points in the Hybrid Scenario results in a greater debt service cost of (Net Present Value) \$28 million over the life of the debt issued to fund the CIP.

Capital Improvement Program Adherence

The CIP has been designed to effectively construct projects as needed to meet the mission of SVCW. The timing of the projects is considered achievable under present economic and operational assessments. Based upon the size of the CIP the cost is significant and the interest expense is also significant. Adhering to the timing of the CIP is singularly the most cost effective strategy to minimize inflation and interest rate risks. As the regional economy continues to expand, costs will continue to rise. Delaying the entire CIP by one year potentially increases the overall cost by approximately \$21 million based upon a construction cost inflation factor of 3.7%. By adhering to the CIP and following the recommendation of the Plan to aggressively pursue funding at today's levels, SVCW can mitigate risks to inflation and interest rates.

Government Loan Availability

The SWRCB receives funding from the State and the United States Environmental Protection Agency. The low cost of this program, combined with its attractive 30-year repayment terms, has increased the participation of agencies from across the state. The SWRCB advised that, unless additional funding actions are taken by the state, it is unable to meet the current demand for SRF loans. While it is impossible to predict the extent to which the program will remain active, it is likely that less funding is available. Analysis supports maximizing SRF Loans as the most effective strategy to mitigate.

Inflation

The LRFP includes inflationary assumptions of approximately 4% on operating costs.
The Consumer Price Index (CPI) is a measure of the "average change in prices over time in a fixed market basket of goods and services" which translates to a guide for determining the prices on food, energy, fuel and other goods and services. CPI is a good indicator of how the economy holds up against inflation and surrounding economic changes. Despite the national recession in the economic environment, the All Urban Consumers San Francisco - Oakland - San Jose (the "San Francisco Statistical Area") has seen cost increases in gas and housing items. Based on October 2016 data for the San Francisco Statistical Area Urban consumer population group, in the past two months the price for all items have increased 0.94%, or 3.6% in the past year. Food prices at home have decreased 3.8% over the past year. Despite the increase of 2.7% in the gasoline CPI index for All Urban Consumers for the month of November, 2016, average gasoline prices for the San Francisco Statistical Area fell 2.8% over the past month.

In comparison, the CPI for All Urban Consumers rose only 0.2% in the month of November 2016 and 1.7% for the trailing twelve months. Food prices remained unchanged for the month of November 2016 bud decreased 0.4% over the trailing twelve month period. The index for all items less food and energy rose 2.1%.

SVCW's service territory has seen higher Inflationary results than the nation as a whole. Should this trend continue, SVCW expenditures (excluding debt service) may rise significantly. Since inflation can be unpredictable, as a trustee of public funds SVCW should ignore any notion of "waiting out the market" and proceed with the most prudent course of action. This means preparing itself to execute the CIP and pursue an efficient funding source.

Interest Rates

On December 15, 2016 the Federal Reserve increased the Fed Funds rate to 0.50. The Bloomberg forecast of interest rates is a compilation of forecasts provided by numerous financial institutions, including the Wall Street investment banking firms. It is impossible to predict interest rate levels or the timing of changes, what is known however is that today's interest rates are near historical lows. The fluctuation in the public market's interest rates is impossible to predict. A decrease in tax-exempt interest rates is an unlikely scenario since they are at historical low levels already; however, a more plausible outcome would be for the market to experience higher interest rates in the near future.

Changes in interest rates are somewhat mitigated with SRF Loan funding, as the rate is based on 50% of the State's public borrowing cost. Focusing on Scenario II, were market interest rates to increase 50 basis points overall, the SRF borrowing interest rate would rise 0.25% to 1.85% (for the 2016 loan) and 2.75% thereafter (as the State will absorb half of the market increase). Publicly issued debt, however, would bear the entire 0.50% market increase with estimated rates increasing to 5.25% and 5.75%. The resulting impact on SVCW's debt service profile is an increase of maximum aggregate annual cost by 4% and an increase in the net present value of debt service by \$14.7 million. The CIP average annual debt service cost would increase by approximately \$927,000 (~4%). It should be noted, however, that both the SRF Loan interest rates and publicly issued bond rates assumed in the Model have a significant cushion versus the current market (e.g. 0.90% in the case of the SRF Loan rates after 2016).

In light of the above risk factor discussion, the most prudent course of action would be to establish an aggressive strategy to take advantage of the attractive interest rate offered by Government Loans and attempt to optimize the borrowing as soon as possible.

The use of government funding reduces the interest rate risk to SVCW because these loans can be obtained at approximately 50% of the tax-exempt market, thus only half of movements in the market are passed on to borrowers.

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SECTION 7 – CONCLUSIONS & RECOMMENDATIONS

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

A debt strategy has advantages over a pay-go cash strategy. Not only can debt be used to allocate capital costs over the expected useful life of assets, it also provides fairness to Members' ratepayers by spreading costs across generations and facilitating moderate and consistent rate increases.

In general, funding alternatives encompass three broad funding strategies: 1) using capital market funding (issuance of publicly traded revenue bonds); 2) using government loan funding through SRF and WIFIA programs; and 3) using a combination of capital market funding and government loans. Within these three strategies, several specific alternatives were developed and analyzed. The Plan developed three scenarios from the broad funding alternatives:

- **Majority Bonds**: Fund the majority (70%) of the CIP through the capital markets;
- **Hybrid**: Fund approximately half of the CIP through capital market funding; and the balance with Government Loans; and
- **Majority Government Loans**: Fund 60% of the CIP with Government Loans and the balance through the capital markets.

As described on page 3, the Hybrid Scenario is recommended for planning purposes. It is a prudent approach that recognizes the oversubscribed SRF program will likely be inadequate to fund the majority of SVCW's capital needs. But it also challenges the organization to take advantage of low-cost funding sources as much as possible, namely the SRF Loan and WIFIA programs. If successful, this approach would a) reduce costs by approximately \$45 million in current dollars due to averted interest rate expense; 2) structure debt such that payments can be deferred up to three years after project completion; 3) partially insulate the Authority from interest rate increases; 4) reduce negative carry since government loans allow borrowers to draw down construction funds only as needed rather than borrow all at once; and 5) provide less onerous debt service coverage requirements than capital market funding requirements for the ratings assigned (Aa2/AA/NR) to SVCW's debt.

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