

**COMMISSION OF SILICON VALLEY CLEAN WATER
JOINT POWERS AUTHORITY
REGULAR MEETING – Thursday, October 11, 2018
8:00 a.m.**

Place: Pelican Conference Room
Silicon Valley Clean Water
1400 Radio Road, 2nd Floor
Redwood City, CA 94065

COMMISSIONERS

MAYOR JOHN SEYBERT, REDWOOD CITY – CHAIR

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

BOARD MEMBER GEORGE S. OTTE, P.E., WEST BAY SANITARY DISTRICT – MEMBER

MAYOR ROBERT GRASSILLI, SAN CARLOS – SECRETARY

MANAGER: TERESA A. HERRERA

ATTORNEY FOR THE AUTHORITY: CHRISTINE C. FITZGERALD

CONTROLLER/TREASURER: KIMBRA MCCARTHY

AMERICANS WITH DISABILITIES ACT

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

AGENDA

1. CALL TO ORDER

2. ROLL CALL

3. PLEDGE OF ALLEGIANCE

4. PUBLIC COMMENT

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

July 31, 2018

2. Investment Reports

August 30, 2018

D. Engineering Projects Status Update

September 2018

E. Commission Requested Staff-Level Action Items

F. RESCU Program Design-Build Project Status Update

6. MATTERS OF COMMISSION MEMBERS' INTEREST

7. CONSIDERATION OF MOTION APPROVING CONSENT CALENDAR

8. BUSINESS ITEMS

A. PUBLIC HEARING - CONSIDERATION OF RESOLUTION APPROVING ENERGY STORAGE AGREEMENTS WITH ADVANCED MICROGRID SOLUTIONS FOR ENERGY STORAGE PROJECT AT WWTP

Proposed Actions:

- Open Public Hearing and Receive Testimony
- Close Public Hearing
- i. Move adoption of RESOLUTION MAKING NECESSARY FINDINGS AND APPROVING ENGINEERING, PROCUREMENT, AND CONSTRUCTION SERVICES AGREEMENT FOR ENERGY STORAGE PROJECT (CIP #9810), AUTHORIZING EXECUTION OF AGREEMENT AND AUTHORIZING MANAGER TO APPROVE CONTRACT CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT PRICE FOR SAID PROJECT – ADVANCED MICROGRID SOLUTIONS, Inc. – \$1,600,000
- ii. Move adoption of RESOLUTION APPROVING ENERGY MANAGEMENT SERVICES AGREEMENT FOR ENERGY STORAGE PROJECT (CIP #9810) AND AUTHORIZING EXECUTION OF AGREEMENT – ADVANCED MICROGRID SOLUTIONS, Inc.

B. CONSIDERATION OF RESOLUTION APPROVING SALARY ADJUSTMENTS FOR CONFIDENTIAL GENERAL, UNREPRESENTED GENERAL, PROFESSIONAL AND MANAGEMENT EMPLOYEES AND TITLE CHANGES FOR CFO/ADMINISTRATIVE MANAGER TO ASSISTANT MANAGER/CFO AND ASSISTANT MANAGER/CHIEF ENGINEERING OFFICER TO AUTHORITY ENGINEER

Proposed Actions:

- i. RESOLUTION ESTABLISHING RATES OF PAY AND RELATED COMPENSATION PROVISIONS FOR MANAGEMENT EMPLOYEES OF SILICON VALLEY CLEAN WATER AND RESCINDING AND RESTATING CERTAIN PROVISIONS OF RESOLUTION NO. SVCW 18-42 AND RESCINDING ANY AND ALL OTHER RESOLUTIONS OR PORTIONS THEREOF IN CONFLICT HERewith
- ii. RESOLUTION ESTABLISHING RATES OF PAY AND RELATED COMPENSATION PROVISIONS FOR CONFIDENTIAL GENERAL EMPLOYEES OF SILICON VALLEY CLEAN WATER AND RESCINDING RESOLUTION NO. SVCW 18-43 AND ANY AND ALL OTHER RESOLUTIONS OR PROVISIONS THEREOF IN CONFLICT HERewith
- iii. RESOLUTION ESTABLISHING RATES OF PAY AND RELATED COMPENSATION FOR UNREPRESENTED GENERAL EMPLOYEE POSITIONS OF ENGINEERING INTERN, LABORATORY ASSISTANT AND GENERAL INTERN AND RESCINDING RESOLUTION NO. SVCW 18-44 AND ANY AND ALL OTHER RESOLUTIONS OR PORTIONS THEREOF IN CONFLICT HERewith
- iv. RESOLUTION ESTABLISHING RATES OF PAY AND RELATED COMPENSATION PROVISIONS FOR PROFESSIONAL EMPLOYEES OF SILICON VALLEY CLEAN WATER AND RESCINDING RESOLUTION NO. SVCW 18-45 AND RESCINDING ANY AND ALL OTHER RESOLUTIONS OR PORTIONS THEREOF IN CONFLICT HERewith
- v. RESOLUTION AMENDING SECTION 6 OF RESOLUTION NO. SVCW 77-6, THE SVCW PERSONNEL RESOLUTION, RELATING TO CLASSIFICATION OF POSITIONS AND RESCINDING PARAGRAPH 1 OF RESOLUTION NO. SVCW 18-46 AND ANY AND ALL OTHER RESOLUTIONS OR PROVISIONS THEREOF IN CONFLICT HERewith
- vi. RESOLUTION APPROVING AND ADOPTING CONSOLIDATED PAY SCHEDULE FOR ALL REPRESENTED AND UNREPRESENTED EMPLOYEES OF SILICON VALLEY CLEAN WATER FOR FISCAL YEAR 2018-2019

9. CLOSED SESSION

A. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Government Code Section 54956.9 (Two Potential Cases)

B. LABOR NEGOTIATIONS (Govt. Code Section 54957.6(a))

AGENCY NEGOTIATORS: Teresa A. Herrera, SVCW Manager
Matt Anderson, SVCW Chief Financial Officer/Admin. Manager
Jennifer Flick, SVCW Human Resources Director
Monte Hamamoto, SVCW Chief Operating Officer
EMPLOYEE ORGANIZATION: IUOE LOCAL 39

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

11. ADJOURN

CONSENT CALENDAR

NOTICE TO PUBLIC

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

7. A. APPROVAL OF MINUTES – August 23, 2018 Meeting
- B. CONSIDERATION OF MOTION APPROVING CLAIMS AND CHECKS DATED AUGUST 2018 AND SEPTEMBER 2018 AND NECESSARY PAYMENTS THROUGH SEPTEMBER 2018
- C. CONSIDERATION OF MOTION APPROVING AGREEMENT WITH PACIFIC GAS AND ELECTRIC COMPANY FOR INSTALLATION OF NEW 12KV PRIMARY ELECTRICAL SERVICE WHILE MAINTAINING EXISTING PRIMARY ELECTRICAL SERVICE FOR NEW 12KV SWITCHGEAR PROJECT (CIP #9807)

Proposed Action: Move adoption of RESOLUTION APPROVING AGREEMENT WITH P.G.&E. FOR INSTALLATION OF NEW 12KV PRIMARY SERVICE WHILE MAINTAINING EXISTING 12KV PRIMARY SERVICE FOR NEW 12KV SWITCHGEAR PROJECT (CIP #9807), AUTHORIZING EXECUTION OF AGREEMENT AND AUTHORIZING MANAGER TO APPROVE CONTRACT CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT PRICE FOR SAID PROJECT – PACIFIC GAS & ELECTRIC - \$263,588

- D. CONSIDERATION OF MOTION APPROVING TANNER PACIFIC, INC. TASK ORDER SCOPE AND BUDGET FOR PROFESSIONAL CONSTRUCTION MANAGEMENT SERVICES FOR SVCW CIP AND CAPITAL PROJECTS

Proposed Action: Move approval of TASK ORDER SCOPE AND BUDGET FOR CONSTRUCTION MANAGEMENT SERVICES IN AN AMOUNT NOT TO EXCEED \$3,446,000 AND AUTHORIZE MANAGER TO APPROVE UP TO PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS - TANNER PACIFIC INC. - \$3,446,000

- E. CONSIDERATION OF MOTION APPROVING A PURCHASE ORDER AUTHORIZING DHI WATER AND ENVIRONMENT, INC. TO PERFORM A FEASIBIL STUDY ANALYZING SVCW’S TREATMENT PROCESS CAPABILITY TO REMOVE NUTRIENTS FROM THE WASTE-SYSTEM

Proposed Action: Move approval of SCOPE AND BUDGET FOR A FEASIBILITY STUDY AND ANALYSIS REPORT IN AN AMOUNT NOT TO EXCEED \$101,212 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – DHI WATER AND ENVIRONMENT, INC – \$101,212

AGENDA ITEM 5A

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SAFETY MOMENT
Insect Bites



For Mild Reactions

To take care of an insect bite or sting that causes a mild reaction:

- Move to a safe area to avoid more bites or stings.
- If needed, remove the stinger.
- Wash the area with soap and water.
- Apply a cool compress. Use a cloth dampened with cold water or filled with ice. This helps reduce pain and swelling. If the injury is on an arm or leg, elevate it.
- Apply 0.5 or 1 percent hydrocortisone cream, calamine lotion or a baking soda paste to the bite or sting several times daily until your symptoms go away.
- Take an antihistamine (Benadryl, others) to reduce itching.

Usually, the signs and symptoms of a bite or sting disappear in a day or two. If you're concerned — even if your reaction is minor — call your doctor.

When To Seek Emergency Care

Call 911 or your local emergency number if the injured person experiences:

- Difficulty breathing
- Swelling of the lips, eyelids or throat
- Dizziness, faintness or confusion
- Rapid heartbeat
- Hives
- Nausea, cramps or vomiting
- A scorpion sting and is a child

Take these actions immediately while waiting for medical help:

Ask the person if he or she is carrying an epinephrine autoinjector (EpiPen, Auvi-Q, others) to treat an allergic attack.

- If the person says he or she needs to use an autoinjector, ask whether you should help inject the medication. This is usually done by pressing the autoinjector against the person's thigh and holding it in place for several seconds.
- Loosen tight clothing and cover the person with a blanket. Don't give him or her anything to drink.
- If the person is vomiting, position him or her to prevent choking. Begin CPR if the person shows no signs of circulation, such as breathing, coughing or movement.

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AGENDA ITEM 5C1 AND 5C2

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SILICON VALLEY CLEAN WATER

JOINT POWERS AUTHORITY ~ A PUBLIC ENTITY



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

SILICON VALLEY CLEAN WATER INVESTMENT LISTING July 31, 2018

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
Annual OPS and CAP Budget Reserve								
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2020	5.000%	2.91	26,395	26,817	27,847	780
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.63	60,000	59,812	61,111	1,570
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.76	30,000	28,992	30,315	801
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/17/2018	1.950%	2.30	100,000	100,005	100,482	2,302
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.71	50,000	50,877	51,283	1,376
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/13/2019	4.500%	2.57	100,000	102,177	104,952	2,625
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	2.67	30,000	29,355	30,253	784
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.75	100,000	97,200	99,795	2,671
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.78	100,000	96,548	99,730	2,680
FEDERAL NATL MTG ASSN	AA+	11/27/2018	1.625%	2.16	60,000	59,903	60,229	1,296
FEDERAL NATL MTG ASSN GTD REMIC	NR	09/25/2019	2.171%	2.55	133,367	132,293	135,118	3,372
FEDERAL NATL MTG ASSN	AA+	09/25/2020	1.750%	2.89	100,000	97,727	100,591	2,823
FEDERAL HOME LN MTG CORP MULTICLASS	NR	11/25/2019	1.869%	2.98	119,467	117,962	119,299	3,513
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.38	30,000	29,839	30,254	710
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.55	30,000	29,556	30,117	753
FEDERAL HOME LN MTG CORP MULTICLASS	N.A.	04/15/2020	4.000%	2.67	8,427	8,426	8,680	225
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2019	5.500%	2.91	14,355	14,477	15,180	421
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	03/01/2020	5.500%	4.58	406	406	420	19
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2020	5.000%	2.99	12,535	12,751	13,233	381
GNMA II PASSTHRU CTF POOL #003421	N.A.	08/20/2018	4.500%	-	51	51	54	-
GENERAL ELEC CAP CORP MTN	A	08/07/2018	2.633%	4.59	75,000	75,005	74,771	3,444
IOWA FIN AUTH REV ST REVOLVING FD	N.A.	08/01/2018	3.280%	-	50,000	50,000	50,430	-
SMALL BUSINESS ADMIN GTD LN POOL	N.A.	02/25/2019	4.825%	2.92	11,550	11,499	11,985	335
U S BANCORP MTNS BK ENT FR	A+	11/15/2018	1.950%	2.55	50,000	49,922	50,026	1,271
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	2.55	50,000	49,617	49,856	1,267
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	2.23	80,000	79,793	80,000	1,779
MONTGOMERY CNTY MD CTF PARTN COPS	N.A.	11/01/2019	1.200%	2.69	100,000	97,970	100,029	2,637
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.95	100,000	98,706	103,510	2,911
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	3.16	100,000	98,889	103,785	3,122
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.74	110,000	111,700	115,790	3,058
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	2.64	80,000	78,769	80,000	2,080
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.96	60,000	58,397	60,000	1,730
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	3.04	40,000	38,724	40,000	1,178
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.80	80,000	78,303	80,000	2,192
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.78	150,000	147,231	150,000	4,089
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.66	70,000	68,446	69,713	1,819
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.83	70,000	66,921	69,254	1,895
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.87	35,000	34,435	35,870	987
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/29/2020	1.830%	2.76	140,000	137,540	140,769	3,802
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.72	140,000	137,591	140,648	3,745
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.77	90,000	86,427	89,118	2,391
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.81	90,000	85,963	88,878	2,412
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.91	30,000	29,386	30,000	854
ALTRIA GROUP INC SR NT	A-	08/09/2022	2.850%	2.92	30,000	29,307	30,257	856
US TREASURY NOTE	NR	03/15/2020	1.625%	2.63	50,000	49,214	49,751	1,295
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/11/2020	1.620%	2.85	140,000	136,585	137,964	3,898
FEDERAL HOME LN MTG CORP	AA+	03/26/2021	2.700%	2.96	50,000	49,620	49,938	1,471
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/15/2020	2.500%	2.84	100,000	99,609	99,925	2,829
FEDERAL NATL MTG ASSN	AA+	03/26/2021	2.700%	3.02	100,000	99,560	100,000	3,009
FEDERAL NATL MTG ASSN	AA+	10/19/2022	3.000%	3.23	50,000	49,677	50,000	1,603
US TREASURY NOTE	NR	07/31/2020	2.000%	2.68	20,000	19,740	19,797	529
CASH & EQUIVALENTS	-	-	-	1.82	-	98,395	98,395	1,791
Annual OPS and CAP Budget Reserve Total						\$ 3,498,113	\$ 3,569,399	\$ 95,381
Capital Improvement Program Reserve								
APPLE INC SR FLT NT	AA+	02/07/2020	2.610%	2.35	100,000	100,344	99,821	2,361
BERGEN CNTY N J TAXABLE GO BDS 2008	N.A.	11/01/2019	6.000%	2.42	100,000	100,931	102,183	2,444
CALIFORNIA ST GO BDS TAXABLE	AA-	10/01/2019	6.200%	2.57	100,000	104,082	106,099	2,671
CHEVRON CORPORATION SR NT	AA-	03/03/2019	4.950%	2.46	100,000	101,441	102,952	2,494
CISCO SYS INC SR GLBL NT	A+	01/15/2020	4.450%	2.76	125,000	127,924	129,705	3,526
COLGATE PALMOLIVE CO MTNS FR	AA-	11/01/2018	1.500%	2.20	100,000	99,799	100,081	2,192
EXXON MOBIL CORP SR FLT NT	AA+	03/15/2019	2.491%	2.39	100,000	100,109	99,935	2,390
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2019	5.000%	3.62	8,724	8,768	9,198	317
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.63	340,000	338,932	343,278	8,897
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.76	100,000	96,640	101,049	2,670
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/06/2020	5.300%	2.95	450,000	469,566	481,995	13,862
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/03/2019	5.320%	2.83	50,000	51,503	52,774	1,455

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Estimated Annual \$ Yield	
							Cost	Earnings
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	2.78	60,000	60,158	62,096	1,669
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	2.61	250,000	247,888	250,000	6,470
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	2.56	60,000	61,650	63,205	1,577
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	4.625%	2.79	200,000	207,004	211,110	5,771
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/14/2018	3.750%	2.45	250,000	251,473	253,048	6,151
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.71	25,000	25,439	25,641	688
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	4.125%	2.61	125,000	127,593	130,679	3,330
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	2.69	700,000	715,484	734,076	19,218
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	2.61	100,000	98,574	101,010	2,574
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	2.67	50,000	48,926	50,422	1,307
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.75	170,000	165,240	169,637	4,541
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	2.76	325,000	318,347	330,129	8,786
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.78	240,000	231,715	239,785	6,432
FEDERAL NATL MTG ASSN	AA+	11/27/2018	1.625%	2.16	150,000	149,757	150,573	3,241
FEDERAL HOME LN MTG CORP MULTICLASS	NR	06/25/2020	3.531%	3.02	100,000	100,895	106,188	3,051
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	2.34	500,000	504,665	511,418	11,794
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.38	50,000	49,732	50,423	1,184
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.55	50,000	49,260	50,195	1,255
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	2.680%	2.87	460,581	460,199	479,724	13,208
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	5.000%	2.71	10,000	10,173	10,541	276
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	3.64	201,083	203,916	223,077	7,423
IOWA FIN AUTH REV ST REVOLVING FD	N.A.	08/01/2018	3.280%	-	25,000	25,000	25,215	-
MICROSOFT CORP NT	AAA	06/01/2019	4.200%	2.43	100,000	101,425	102,344	2,468
MONONA WIS TAXABLE PROM NTS 2015B	N.A.	06/01/2020	3.250%	3.14	100,000	100,105	100,618	3,144
NEW YORK N Y GOBDS 2011 C TAXABLE	AA	10/01/2018	3.480%	3.44	100,000	100,073	100,759	3,443
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	2.23	100,000	99,741	100,000	2,223
MONTGOMERY CNTY MD CTF5 PARTN COPS	N.A.	11/01/2019	1.200%	2.69	100,000	97,970	100,029	2,637
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.95	100,000	98,706	103,510	2,911
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	3.20	100,000	98,305	102,146	3,145
GILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	3.07	100,000	98,954	102,683	3,040
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	3.14	100,000	96,074	100,096	3,017
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	3.16	225,000	222,500	233,516	7,024
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.74	165,000	167,549	173,686	4,587
FEDERAL NATL MTG ASSN	AA+	05/26/2021	1.800%	2.99	260,000	251,748	260,000	7,537
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	2.64	260,000	255,999	260,000	6,761
FEDERAL HOME LN MTG CORP	AA+	12/30/2020	1.750%	2.86	340,000	331,772	340,000	9,492
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.96	80,000	77,862	80,000	2,307
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	3.04	120,000	116,172	120,000	3,533
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.80	80,000	78,303	80,000	2,192
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.78	220,000	215,939	220,000	5,997
FEDERAL HOME LN MTG CORP	AA+	10/26/2021	2.000%	2.97	220,000	212,782	220,000	6,320
FEDERAL HOME LOAN BKS CONS BDS	AA+	04/27/2022	2.300%	2.97	220,000	215,862	219,505	6,409
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.66	290,000	283,562	288,837	7,537
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.83	140,000	133,841	138,508	3,789
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.87	310,000	304,994	316,073	8,738
FEDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.87	610,000	592,517	608,182	16,993
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.72	170,000	167,074	170,787	4,548
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.77	170,000	163,251	168,334	4,517
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.81	170,000	162,374	167,882	4,556
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2022	1.900%	3.01	165,000	158,456	165,634	4,774
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/03/2022	1.900%	3.01	165,000	158,393	165,389	4,761
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.89	170,000	164,081	170,568	4,734
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2022	1.850%	2.98	130,000	125,128	130,936	3,730
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.91	120,000	117,542	120,000	3,415
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	3.06	220,000	213,310	220,000	6,519
FEDERAL HOME LN MTG CORP	AA+	10/12/2021	2.000%	2.94	120,000	116,549	120,000	3,423
BANK AMER CORP FR	A-	05/13/2021	5.000%	3.34	75,000	78,453	80,486	2,622
CONSTELLATION BRANDS INC SR GLBL NT	BBB-	11/06/2020	2.250%	3.33	25,000	24,397	24,942	813
HOME DEPOT INC SR GLBL NT	A	04/01/2021	2.000%	2.98	80,000	78,048	79,838	2,323
LORILLARD TOB CO SR NT	BBB	05/01/2020	6.875%	3.29	25,000	26,513	27,166	872
MORGAN STANLEY SR NT	A-	01/27/2020	2.650%	3.04	80,000	79,504	80,571	2,414
ORACLE CORP SR GLBL	A+	05/15/2022	2.500%	3.18	80,000	78,092	80,078	2,484
PHILIP MORRIS INTL INC SR NT	A	03/26/2020	4.500%	2.97	25,000	25,612	26,218	762
STARBUCKS CORP SR GLBL	BBB+	02/04/2021	2.100%	3.23	80,000	77,778	79,979	2,511
3M CO FR	A+	06/26/2022	2.000%	3.05	100,000	96,364	98,956	2,935
FEDERAL HOME LN MTG CORP	AA+	12/29/2021	2.250%	2.96	120,000	117,222	120,000	3,470
FEDERAL HOME LOAN BKS CONS BDS	AA+	10/26/2022	2.280%	3.00	100,000	97,124	99,600	2,911
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/11/2020	1.620%	2.85	400,000	390,244	394,184	11,138
FEDERAL HOME LOAN BKS CONS BDS	AA+	11/29/2021	1.875%	2.83	300,000	290,985	295,904	8,229
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/15/2021	2.200%	2.95	300,000	293,967	298,050	8,666
FEDERAL NATL MTG ASSN	AA+	11/26/2019	1.750%	2.57	300,000	296,904	298,817	7,622
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	05/17/2021	1.970%	2.97	100,000	97,414	98,338	2,892
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/15/2020	2.500%	2.84	160,000	159,374	159,880	4,526
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	11/22/2021	2.740%	3.09	100,000	99,019	99,975	3,063
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/01/2021	2.750%	3.07	60,000	59,687	59,970	1,835
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/01/2020	2.450%	2.90	90,000	89,356	89,978	2,587
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	03/07/2022	2.850%	3.13	100,000	99,558	100,000	3,113
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/20/2021	2.840%	3.10	100,000	99,442	100,000	3,081
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	03/29/2021	2.710%	3.01	80,000	79,436	80,000	2,390
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/29/2022	3.000%	3.20	100,000	99,858	100,000	3,195
FEDERAL HOME LN MTG CORP	AA+	12/14/2022	2.000%	3.05	25,000	24,726	24,619	755
FEDERAL HOME LN MTG CORP	AA+	11/24/2021	2.650%	2.91	100,000	99,199	99,750	2,887
FEDERAL HOME LN MTG CORP	AA+	02/24/2023	3.000%	3.20	80,000	79,364	79,984	2,540
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/29/2022	2.250%	3.61	200,000	199,894	200,000	7,220
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2022	2.130%	3.09	129,630	124,552	125,993	3,842
FEDERAL NATL MTG ASSN	AA+	03/26/2021	2.700%	3.02	100,000	99,560	100,000	3,009
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/16/2021	1.680%	2.94	100,000	96,539	96,664	2,842
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/18/2022	2.830%	3.05	150,000	149,048	150,000	4,552
FEDERAL HOME LN MTG CORP	AA+	03/15/2023	3.000%	3.08	150,000	148,557	149,850	4,571
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/27/2023	3.000%	3.11	150,000	149,066	150,000	4,640
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/27/2022	1.700%	3.00	150,000	143,604	143,580	4,305
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/14/2021	2.810%	3.06	100,000	99,514	100,000	3,045

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Estimated Annual \$ Yield	
							Cost	Earnings
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/20/2022	3.090%	3.24	200,000	198,916	199,850	6,443
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/28/2022	3.060%	3.18	100,000	99,796	100,000	3,176
FEDERAL HOME LOAN BKS CONS BDS	AA+	05/02/2023	3.150%	3.22	200,000	199,356	199,650	6,413
CASH & EQUIVALENTS	-	-	-	1.82	-	627,078	627,078	11,413
Capital Improvement Program Reserve Total						\$ 17,185,155	\$ 17,547,231	\$ 483,551
Stage 2 Capacity Reserve								
CEDAR PARK TEX CTF5 OBLIG TAXABLE	AA	08/15/2018	5.280%	2.36	50,000	50,051	50,831	1,181
CISCO SYS INC SR GLBL NT	A+	01/15/2020	4.450%	2.76	75,000	76,754	77,823	2,115
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2019	5.000%	3.62	8,724	8,768	9,198	317
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	11/01/2020	4.500%	2.99	13,120	13,242	13,678	396
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.63	100,000	99,686	101,852	2,617
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.76	100,000	96,640	101,049	2,670
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/28/2018	4.780%	2.37	55,000	55,253	55,910	1,310
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	2.78	60,000	60,158	62,096	1,669
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	2.61	200,000	198,310	200,000	5,176
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	2.56	50,000	51,375	52,671	1,314
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.71	100,000	101,754	102,565	2,752
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	2.69	125,000	127,765	131,004	3,432
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	2.61	100,000	98,574	101,010	2,574
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	2.67	100,000	97,851	100,844	2,615
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.75	100,000	97,200	100,746	2,671
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	2.76	175,000	171,418	177,762	4,731
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.78	180,000	173,786	180,225	4,824
FEDERAL NATL MTG ASSN	AA+	01/14/2019	3.275%	2.40	100,000	100,470	100,860	2,415
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	2.34	250,000	252,333	255,679	5,897
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.38	100,000	99,463	100,846	2,368
FEDERAL HOME LN MTG CORP	AA+	08/01/2019	1.250%	2.47	100,000	98,813	100,662	2,439
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.55	100,000	98,520	100,389	2,510
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2020	4.000%	3.02	41,417	42,419	43,397	1,281
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	3.64	168,187	170,557	186,583	6,208
GENERAL ELEC CAP CORP MTN	A	08/07/2018	2.633%	4.59	100,000	100,007	99,695	4,592
IOWA FIN AUTH REV ST REVOLVING FD	N.A.	08/01/2018	3.280%	-	100,000	100,000	100,859	-
JPMORGAN CHASE & CO SR NT	A	03/01/2021	2.550%	3.30	50,000	49,094	50,813	1,619
LANCASTER CNTY NEB SCH DIST NO SCH	AA+	01/15/2021	4.550%	2.81	50,000	51,706	52,994	1,450
NORFOLK VA GO CAP IMPT BDS 2010 B	AA	03/01/2019	4.650%	2.77	100,000	101,310	102,647	2,804
U S BANCORP MTNS BK ENT FR	A+	11/15/2018	1.950%	2.55	100,000	99,843	100,051	2,541
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	2.55	50,000	49,617	49,856	1,267
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	2.23	200,000	199,482	200,000	4,446
MONTGOMERY CNTY MD CTF5 PARTN COPS	N.A.	11/01/2019	1.200%	2.69	100,000	97,970	100,029	2,637
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	3.20	150,000	147,458	153,219	4,717
GILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	3.07	150,000	148,431	154,025	4,560
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	3.14	100,000	96,074	100,096	3,017
FEDERAL HOME LN MTG CORP	AA+	08/25/2021	1.375%	2.93	90,000	86,980	90,000	2,544
METRO WASTEWTR RECLAMATION DIS REV	AA+	04/01/2019	4.718%	2.45	100,000	101,325	103,608	2,483
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.74	55,000	55,850	57,895	1,529
FEDERAL HOME LN MTG CORP	AA+	03/30/2021	1.500%	2.89	60,000	57,986	60,000	1,674
FEDERAL HOME LN MTG CORP	AA+	09/30/2021	1.050%	3.51	100,000	96,950	99,900	3,404
FEDERAL NATL MTG ASSN	AA+	09/30/2019	1.250%	2.74	60,000	59,101	59,985	1,622
FEDERAL NATL MTG ASSN	AA+	05/26/2021	1.800%	2.99	60,000	58,096	60,000	1,739
FEDERAL HOME LN MTG CORP	AA+	12/30/2020	1.750%	2.86	100,000	97,580	100,000	2,792
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.96	80,000	77,862	80,000	2,307
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	3.04	60,000	58,086	60,000	1,766
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.80	40,000	39,152	40,000	1,096
FEDERAL HOME LN MTG CORP	AA+	10/26/2021	2.000%	2.97	150,000	145,079	150,000	4,309
FEDERAL HOME LOAN BKS CONS BDS	AA+	04/27/2022	2.300%	2.97	150,000	147,179	149,663	4,370
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.66	260,000	254,228	258,975	6,757
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.83	80,000	76,481	79,148	2,165
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.87	120,000	118,062	122,351	3,382
FEDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.87	220,000	213,695	219,462	6,129
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.72	260,000	255,525	261,204	6,955
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.77	260,000	249,678	257,453	6,909
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.81	260,000	248,336	256,760	6,968
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2022	1.900%	3.01	290,000	278,499	291,114	8,391
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/03/2022	1.900%	3.01	290,000	278,388	290,684	8,368
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.89	300,000	289,554	301,002	8,354
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2022	1.850%	2.98	85,000	81,814	85,612	2,439
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.91	180,000	176,314	180,000	5,122
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	3.06	280,000	271,485	280,000	8,297
FEDERAL HOME LN MTG CORP	AA+	10/12/2021	2.000%	2.94	180,000	174,823	180,000	5,135
HOME DEPOT INC SR GLBL NT	A	04/01/2021	2.000%	2.98	60,000	58,536	59,879	1,742
ORACLE CORP SR GLBL	A+	05/15/2022	2.500%	3.18	120,000	117,138	120,118	3,726
PHILIP MORRIS INTL INC SR NT	A	03/26/2020	4.500%	2.97	55,000	56,347	57,680	1,676
STARBUCKS CORP SR GLBL	BBB+	02/04/2021	2.100%	3.23	60,000	58,333	59,984	1,884
FEDERAL HOME LN MTG CORP	AA+	12/29/2021	2.250%	2.96	80,000	78,148	80,000	2,313
FEDERAL HOME LOAN BKS CONS BDS	AA+	11/29/2021	1.875%	2.83	120,000	116,394	118,362	3,292
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	11/22/2021	2.740%	3.09	100,000	99,019	99,975	3,063
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	03/07/2022	2.850%	3.13	80,000	79,646	80,000	2,491
FEDERAL HOME LN MTG CORP	AA+	02/24/2023	3.000%	3.20	60,000	59,523	59,988	1,905
FEDERAL NATL MTG ASSN	AA+	03/26/2021	2.700%	3.02	140,000	139,384	140,000	4,212
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/18/2022	2.830%	3.05	150,000	149,048	150,000	4,552
FEDERAL HOME LN MTG CORP	AA+	03/15/2023	3.000%	3.08	150,000	148,557	149,850	4,571
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/14/2021	2.810%	3.06	100,000	99,514	100,000	3,045
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/20/2022	3.090%	3.24	100,000	99,458	99,925	3,221
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/28/2022	3.060%	3.18	100,000	99,796	100,000	3,176
FEDERAL HOME LOAN BKS CONS BDS	AA+	05/02/2023	3.150%	3.22	150,000	149,517	149,738	4,810
CASH & EQUIVALENTS	-	-	-	1.82	-	400,258	400,258	7,285
Stage 2 Capacity Reserve Total						\$ 9,738,872	\$ 9,972,531	\$ 273,104
Subtotal, Bank of the West						\$ 30,422,140	\$ 31,089,161	\$ 852,036

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
California Local Agency Investment Fund		LAIF	-	1.944	\$	704,714	\$ 704,714	13,700
TOTAL UNRESTRICTED INVESTMENTS						\$ 31,126,854	\$ 31,793,876	\$ 865,736
Bank of New York (Trustee)								
2009 Reserve Account - Federal National Mortgage Assn 3136G3Q73	Aaa	7/26/2019	1.150%	1.17		4,715,374	4,780,000	55,170
2009 Reserve Account - BMW BK North Amer Salt Lake 05580ACK8	Aa	7/24/2019	2.000%	2.02		148,716	150,000	3,004
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS			0.000%	1.75		160,415	160,415	2,807
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS		-	0.000%	1.75		62,656	62,656	1,096
2009 Revenue FD Account - Morgan Stanley Treas Sec Portfolio X9USDMORS		-	0.000%	1.75		2,127	2,127	37
2009 Revenue FD Account - Morgan Stanley Treas Sec INST X9USDMORS		-	0.000%	1.75		3,099,072	3,099,072	54,234
2014 Revenue Account - Goldman FS Money MKT INST 474 X9USDGLD4		-	0.000%	2.17		11	11	0
2014 Revenue Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	2.13		414	414	9
2014 Revenue Account - Cash		-	0.000%	-		1,373,984	1,373,984	-
2014 Interest Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	2.12		13	13	0
2014 Principal Account - Goldman Sachs Fin Sq Instl X9USDGLD4		-	0.000%	2.09		7	7	0
2014 COI Account - Cash		-	0.000%	-		2	2	-
2015 Project Account - Cash		-	0.000%	-		2	2	-
2015 Revenue Account - JP Morgan Prime MMTK Instl X9USDJPMP		-	0.000%	2.05		163	163	3
2015 Revenue Account - Cash		-	0.000%	-		1,555,667	1,555,667	-
2009 Escrow - Resolution Funding Corp Interest Strip 76116EFS4	Aaa	7/15/2018	0.000%	-		337,757	329,183	-
2009 Escrow - United States Treasury 912828VQ0	Aaa	7/31/2018	1.375%	1.38		262,905	265,978	3,628
2009 Escrow - United States Treasury 912828B33	Aaa	1/31/2019	1.500%	1.51		600,835	610,349	9,073
2009 Escrow - Tunisia Government Aid Bonds 066716AG6	Aaa	7/16/2019	1.686%	1.70		40,008,248	40,944,692	680,140
2009 Escrow - Cash		-	0.000%	-		3,816	3,816	-
Subtotal, Bank of New York (Trustee)						\$ 52,332,185	\$ 53,338,551	\$ 809,202
Less Amounts held in Escrow for 2009 Bond Defeasance						\$ (41,213,561)	\$ (42,154,018)	\$ (692,841)
Net Total, Bank of New York (Trustee)						\$ 11,118,623	\$ 11,184,533	\$ 116,361
Zions Bank (Trustee)								
US Treasury N/B 9128282C3	Aaa	8/31/2018	0.750%	1.88	4,265,000	4,260,918	4,261,109	80,105
US Treasury Notes 912828RH5	Aaa	9/30/2018	1.375%	1.91	4,900,000	4,895,002	4,895,713	93,495
US Treasury N/B 912828U99	Aaa	12/31/2018	1.250%	2.04	3,370,000	3,356,968	3,359,169	68,482
US Treasury Notes 912828B33	Aaa	1/31/2019	1.500%	2.06	1,500,000	11,558,310	11,567,783	238,101
US Treasury Notes 912828B33	Aaa	1/31/2019	1.500%	2.07	1,500,000	1,494,609	1,495,763	30,938
US Treasury Notes 912828C24	Aaa	2/28/2019	1.500%	2.09	15,500,000	15,432,188	15,447,132	322,533
US Treasury Notes 912828P95	Aaa	3/15/2019	1.000%	2.11	10,300,000	10,219,938	10,229,999	215,641
US Treasury Notes 912828ST8	Aaa	4/30/2019	1.250%	2.12	16,430,000	16,295,225	16,324,718	345,459
US Treasury Notes 912828SX9	Aaa	5/31/2019	1.125%	2.14	13,550,000	13,409,202	13,437,869	286,957
Dexia Credit Local SA NY Comm Paper 25214PEO2	P-1	3/9/2019	0.000%	2.20	3,900,000	3,883,844	3,883,779	85,445
Toyota Motor Credit Corp Comm Paper 89233HM35	P-1	3/8/2019	0.000%	2.32	3,900,000	3,868,921	3,869,372	89,759
Toyota Motor Credit Corp Comm Paper 89233HM43	P-1	3/8/2019	0.000%	2.33	2,400,000	2,380,714	2,380,917	55,471
Toronto Dominion Bank NY Cert Depos 89113XZJ6	P-1	3/9/2019	2.500%	2.50	6,300,000	6,237,725	6,300,000	155,943
CAMP Pool	NR			2.09		25,136,088	19,148,346	525,344
Total, Zions Bank (Trustee)						\$ 122,429,650	\$ 116,601,668	\$ 2,593,672
Uninvested Operating Cash						3,139,495	3,139,495	-
TOTAL CASH & INVESTMENTS, UNRESTRICTED AND WITH TRUSTEE						\$ 167,814,622	\$ 162,719,572	\$ 3,575,769
						Weighted Average Yield to Maturity % 2.13%		

Summary by Investment Type:	Market Value
US Treasuries	\$ 84,315,584
Agencies	29,159,818
Commercial Paper / Corporate Bonds	12,741,430
Municipal Bonds / Notes	2,323,774
Money Market / Certificates of Deposit	38,569,302
Local Agency Investment Fund	704,714
TOTAL	\$ 167,814,622

Summary by Purpose / Restriction Level	Market Value
Working Capital	\$ 3,844,209
Operations & Capital Budget Reserve	3,498,113
Capital Improvement Program Reserve	17,185,155
Stage 2 Capacity Reserve	9,738,872
Debt Reserve	9,562,791
Debt Proceeds	123,985,482
TOTAL	\$ 167,814,622

Summary by Liquidity:	Market Value
0-1 years	\$ 143,402,862
1 years	7,595,364
2 years	6,609,936
3-5 years	10,206,461
TOTAL	\$ 167,814,622

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.



8/31/2018

M. Anderson

SILICON VALLEY CLEAN WATER

JOINT POWERS AUTHORITY ~ A PUBLIC ENTITY



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

SILICON VALLEY CLEAN WATER INVESTMENT LISTING August 30, 2018

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
Annual OPS and CAP Budget Reserve								
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2020	5.000%	2.87	23,921	24,223	25,236	695
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.57	60,000	59,882	61,111	1,538
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.68	30,000	29,056	30,263	779
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/17/2018	1.950%	2.29	100,000	100,001	100,482	2,288
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.63	50,000	50,799	51,283	1,336
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/13/2019	4.500%	2.57	100,000	102,022	104,952	2,626
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	2.62	30,000	29,419	30,253	771
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.68	100,000	97,479	99,795	2,611
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.68	100,000	96,848	99,707	2,594
FEDERAL NATL MTG ASSN	AA+	11/27/2018	1.625%	2.13	60,000	59,925	60,229	1,277
FEDERAL NATL MTG ASSN GTD REMIC	NR	09/25/2019	2.171%	2.44	133,101	132,219	134,848	3,227
FEDERAL NATL MTG ASSN	AA+	09/25/2020	1.750%	2.83	100,000	97,950	100,591	2,772
FEDERAL HOME LN MTG CORP MULTICLASS	NR	11/25/2019	1.869%	2.88	112,532	111,247	112,374	3,204
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.42	30,000	29,854	30,254	723
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.51	30,000	29,600	30,117	744
FEDERAL HOME LN MTG CORP MULTICLASS	N.A.	04/15/2020	4.000%	3.20	4,317	4,316	4,446	138
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2019	5.500%	2.85	12,648	12,742	13,376	363
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	03/01/2020	5.500%	4.59	348	349	361	16
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2020	5.000%	2.94	11,778	12,073	12,434	355
GNMA II PASSTHRU CTF POOL #003421	N.A.	08/20/2018	4.500%	-	-	-	-	-
SMALL BUSINESS ADMIN GTD LN POOL	N.A.	02/25/2019	4.825%	2.93	9,919	9,872	10,292	290
U S BANCORP MTNS BK ENT FR	A+	11/15/2018	1.950%	2.31	50,000	49,968	50,026	1,156
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	2.55	50,000	49,663	49,856	1,266
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	2.44	80,000	79,864	80,000	1,947
MONTGOMERY CNTY MD CTF PARTN COPS	N.A.	11/01/2019	1.200%	2.66	100,000	98,126	100,029	2,611
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.90	100,000	99,043	103,510	2,871
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	3.07	100,000	99,129	103,785	3,046
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.73	110,000	111,636	114,357	3,049
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	2.71	80,000	78,862	80,000	2,133
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.91	60,000	58,576	60,000	1,704
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	2.97	40,000	38,889	40,000	1,156
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.74	80,000	78,500	80,000	2,148
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.72	150,000	147,554	150,000	4,018
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.61	70,000	68,615	69,727	1,792
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.74	70,000	67,233	69,274	1,839
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.78	35,000	34,569	35,870	961
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/29/2020	1.830%	2.70	140,000	137,666	140,769	3,718
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.63	140,000	137,767	140,648	3,621
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.68	90,000	86,716	89,145	2,322
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.72	90,000	86,305	88,909	2,351
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.85	30,000	29,450	30,000	838
ALTRIA GROUP INC SR NT	A-	08/09/2022	2.850%	3.35	30,000	29,453	30,230	986
US TREASURY NOTE	NR	03/15/2020	1.625%	2.58	50,000	49,286	49,751	1,273
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/11/2020	1.620%	2.92	140,000	136,998	137,964	4,000
FEDERAL HOME LN MTG CORP	AA+	03/26/2021	2.700%	2.91	50,000	49,733	49,938	1,449
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/15/2020	2.500%	2.84	100,000	99,704	99,925	2,834
FEDERAL NATL MTG ASSN	AA+	03/26/2021	2.700%	2.97	100,000	99,777	100,000	2,958
FEDERAL NATL MTG ASSN	AA+	10/19/2022	3.000%	3.18	50,000	49,888	50,000	1,586
US TREASURY NOTE	NR	07/31/2020	2.000%	2.62	20,000	19,772	19,797	517
CASH & EQUIVALENTS	-	-	-	1.86	-	247,180	247,180	4,598
Annual OPS and CAP Budget Reserve Total						\$ 3,509,797	\$ 3,573,090	\$ 93,097

Capital Improvement Program Reserve

DESCRIPTION LINE 1	Bloomberg Composite	Maturity	Coupon Rate	Yield-to- Maturity	Units	Market Value	Carrying Value	Estimated Annual \$ Yield Earnings
APPLE INC SR FLT NT	AA+	02/07/2020	2.591%	2.38	100,000	100,311	99,821	2,388
BERGEN CNTY N J TAXABLE GO BDS 2008	N.A.	11/01/2019	6.000%	2.46	100,000	100,574	102,183	2,475
CALIFORNIA ST GO BDS TAXABLE	AA-	10/01/2019	6.200%	2.81	100,000	103,706	106,099	2,915
CHEVRON CORPORATION SR NT	AA-	03/03/2019	4.950%	2.46	100,000	101,250	102,952	2,487
CISCO SYS INC SR GLBL NT	A+	01/15/2020	4.450%	2.72	125,000	127,841	129,705	3,471
COLGATE PALMOLIVE CO MTNS FR	AA-	11/01/2018	1.500%	2.44	100,000	99,873	100,081	2,441
EXXON MOBIL CORP SR FLT NT	AA+	03/15/2019	2.491%	2.36	100,000	100,084	99,935	2,364
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2019	5.000%	3.64	6,763	6,802	7,131	248
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.57	340,000	339,334	343,278	8,717
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.68	100,000	96,853	100,876	2,598
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/06/2020	5.300%	2.92	450,000	468,545	481,995	13,663
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/03/2019	5.320%	2.78	50,000	51,381	52,774	1,428
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	2.68	60,000	60,213	62,096	1,615
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	2.54	250,000	248,185	250,000	6,314

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Estimated Annual \$ Yield Earnings	
							Cost	
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	2.46	60,000	61,490	62,144	1,514
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	4.625%	2.79	200,000	206,888	211,110	5,774
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/14/2018	3.750%	2.37	250,000	251,053	253,048	5,955
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.63	25,000	25,400	25,641	668
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	4.125%	2.60	125,000	127,439	130,679	3,308
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	2.64	700,000	715,904	734,076	18,914
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	2.58	100,000	98,697	101,010	2,548
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	2.62	50,000	49,032	50,422	1,285
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.68	170,000	165,714	169,637	4,439
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	2.69	325,000	319,202	330,129	8,580
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.68	240,000	232,435	239,685	6,225
FEDERAL NATL MTG ASSN	AA+	11/27/2018	1.625%	2.13	150,000	149,813	150,573	3,193
FEDERAL HOME LN MTG CORP MULTICLASS	NR	06/25/2020	3.531%	2.96	100,000	100,963	106,188	2,990
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	2.32	500,000	503,950	511,418	11,682
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.42	50,000	49,757	50,423	1,205
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.51	50,000	49,334	50,195	1,239
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	2.680%	2.81	459,768	459,332	478,878	12,907
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	04/01/2019	5.000%	2.62	7,626	7,817	8,038	205
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	3.71	200,728	203,343	222,683	7,544
MICROSOFT CORP NT	AAA	06/01/2019	4.200%	2.23	100,000	101,326	102,344	2,260
MONONA WIS TAXABLE PROM NTS 2015B	N.A.	06/01/2020	3.250%	3.17	100,000	100,083	100,618	3,171
NEW YORK N Y GOBDS 2011 C TAXABLE	AA	10/01/2018	3.480%	2.33	100,000	100,026	100,759	2,327
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	2.44	100,000	99,830	100,000	2,434
MONTGOMERY CNTY MD CTFB PARTN COPS	N.A.	11/01/2019	1.200%	2.66	100,000	98,126	100,029	2,611
RICHMOND VA GO PUB IMPT BDS C	AA	07/15/2021	2.599%	2.90	100,000	99,043	103,510	2,871
BANK NEW YORK MTN BK ENT FR	A-	11/27/2020	2.450%	3.09	100,000	98,705	102,146	3,053
GILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	2.99	100,000	99,113	102,683	2,963
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	3.04	100,000	96,239	100,096	2,924
PORT MORROW ORE TRANSMISSION F REV	AA	09/01/2021	2.737%	3.07	225,000	223,040	233,516	6,854
WACO TEX INDPST SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.73	165,000	167,454	171,536	4,573
FEDERAL NATL MTG ASSN	AA+	05/26/2021	1.800%	2.90	260,000	252,629	260,000	7,329
FEDERAL HOME LN MTG CORP	AA+	12/30/2019	1.500%	2.71	260,000	256,303	260,000	6,933
FEDERAL HOME LN MTG CORP	AA+	12/30/2020	1.750%	2.80	340,000	332,697	340,000	9,306
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.91	80,000	78,102	80,000	2,272
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	2.97	120,000	116,666	120,000	3,468
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.74	80,000	78,500	80,000	2,148
FEDERAL HOME LN MTG CORP	AA+	05/15/2020	1.600%	2.72	220,000	216,412	220,000	5,893
FEDERAL HOME LN MTG CORP	AA+	10/26/2021	2.000%	2.86	220,000	213,501	220,000	6,106
FEDERAL HOME LOAN BKS CONS BDS	AA+	04/27/2022	2.300%	2.88	220,000	216,146	219,505	6,225
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.61	290,000	284,261	288,861	7,422
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.74	140,000	134,466	138,547	3,679
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.78	310,000	306,181	316,073	8,509
FEDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.78	610,000	594,488	608,257	16,527
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.63	170,000	167,289	170,787	4,396
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.68	170,000	163,797	168,385	4,386
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.72	170,000	163,020	167,940	4,441
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2022	1.900%	2.93	165,000	159,431	165,634	4,667
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/03/2022	1.900%	2.92	165,000	159,357	165,348	4,655
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.79	170,000	164,756	170,568	4,592
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2022	1.850%	2.89	130,000	125,700	130,836	3,634
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.85	120,000	117,800	120,000	3,354
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	2.99	220,000	214,243	220,000	6,406
FEDERAL HOME LN MTG CORP	AA+	10/12/2021	2.000%	2.88	120,000	116,797	120,000	3,368
BANK AMER CORP FR	A-	05/13/2021	5.000%	3.22	75,000	78,427	80,486	2,525
CONSTELLATION BRANDS INC SR GLBL NT	BBB-	11/06/2020	2.250%	3.25	25,000	24,493	24,942	797
HOME DEPOT INC SR GLBL NT	A	04/01/2021	2.000%	2.93	80,000	78,055	79,838	2,288
LORILLARD TOB CO SR NT	BBB	05/01/2020	6.875%	3.52	25,000	26,394	27,166	929
MORGAN STANLEY SR NT	A-	01/27/2020	2.650%	3.02	80,000	79,561	80,571	2,402
ORACLE CORP SR GLBL	A+	05/15/2022	2.500%	3.10	80,000	78,364	80,078	2,432
PHILIP MORRIS INTL INC SR NT	A	03/26/2020	4.500%	2.91	25,000	25,597	26,218	744
STARBUCKS CORP SR GLBL	BBB+	02/04/2021	2.100%	3.09	80,000	78,219	79,979	2,415
3M CO FR	A+	06/26/2022	2.000%	2.97	100,000	96,528	98,978	2,870
FEDERAL HOME LN MTG CORP	AA+	12/29/2021	2.250%	2.92	120,000	117,607	120,000	3,428
FEDERAL HOME LOAN BKS CONS BDS	AA+	10/26/2022	2.280%	2.91	100,000	97,585	99,600	2,842
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/11/2020	1.620%	2.84	400,000	391,424	394,184	11,113
FEDERAL HOME LOAN BKS CONS BDS	AA+	11/29/2021	1.875%	2.75	300,000	292,137	295,904	8,025
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/15/2021	2.200%	2.88	300,000	294,879	298,050	8,478
FEDERAL NATL MTG ASSN	AA+	11/26/2019	1.750%	2.54	300,000	297,186	298,892	7,546
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	05/17/2021	1.970%	2.91	100,000	97,703	98,338	2,846
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/15/2020	2.500%	2.84	160,000	159,526	159,880	4,534
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	11/22/2021	2.740%	3.04	100,000	99,294	99,975	3,020
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/01/2021	2.750%	3.04	60,000	59,837	59,970	1,817
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/01/2020	2.450%	2.84	90,000	89,447	89,978	2,539
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	03/07/2022	2.850%	3.09	100,000	99,916	100,000	3,088
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/20/2021	2.840%	2.94	100,000	99,601	100,000	2,924
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	03/29/2021	2.710%	2.96	80,000	79,884	80,000	2,366
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/29/2022	3.000%	3.17	100,000	100,000	100,000	3,166
FEDERAL HOME LN MTG CORP	AA+	12/14/2022	2.000%	2.98	25,000	24,808	24,627	739
FEDERAL HOME LN MTG CORP	AA+	11/24/2021	2.650%	2.91	100,000	99,339	99,750	2,895
FEDERAL HOME LN MTG CORP	AA+	02/24/2023	3.000%	3.15	80,000	79,728	79,984	2,514
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/29/2022	2.250%	3.63	200,000	199,974	200,000	7,255
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2022	2.130%	3.00	129,630	125,194	125,993	3,753
FEDERAL NATL MTG ASSN	AA+	03/26/2021	2.700%	2.97	100,000	99,777	100,000	2,958
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/16/2021	1.680%	2.88	100,000	96,931	97,005	2,790
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/18/2022	2.830%	3.10	150,000	149,613	150,000	4,638
FEDERAL HOME LN MTG CORP	AA+	03/15/2023	3.000%	3.15	150,000	149,241	149,850	4,701
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/27/2023	3.000%	3.17	150,000	149,759	150,000	4,740
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/27/2022	1.700%	2.92	150,000	144,227	143,580	4,211
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/14/2021	2.810%	3.03	100,000	99,754	100,000	3,024
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/20/2022	3.090%	3.22	200,000	199,686	199,850	6,424
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/28/2022	3.060%	3.15	100,000	100,038	100,000	3,150
FEDERAL HOME LOAN BKS CONS BDS	AA+	05/02/2023	0.0315	3.20	200000	199680	199650	6,394
CASH & EQUIVALENTS	-	-	-	1.86	-	756,505	756,505	14,071
Capital Improvement Program Reserve Total						\$ 17,313,951	\$ 17,642,697	\$ 478,441

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
Stage 2 Capacity Reserve								
DESCRIPTION LINE 1	Bloomberg Composite	Maturity	Coupon Rate	Yield-to- Maturity	Units	Market Value	Carrying Value	Estimated Annual \$ Yield Earnings
CISCO SYS INC SR GBLB NT	A+	01/15/2020	4.450%	2.72	75,000	76,705	77,823	2,083
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	02/01/2019	5.000%	3.64	6,763	6,802	7,131	248
FEDERAL HOME LN MTG CORP PARTN GOLD	N.A.	11/01/2020	4.500%	2.98	11,492	11,602	11,981	346
FEDERAL HOME LOAN BKS CONS BDS	AA+	12/13/2019	2.375%	2.57	100,000	99,804	101,852	2,564
FEDERAL HOME LOAN BKS CONS BDS	AA+	02/18/2021	1.375%	2.68	100,000	96,853	100,876	2,598
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	09/28/2018	4.780%	1.93	55,000	55,106	55,910	1,061
FEDERAL HOME LOAN BKS CONS BDS	AA+	09/11/2020	2.875%	2.68	60,000	60,213	62,096	1,615
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/24/2019	1.520%	2.54	200,000	198,548	200,000	5,051
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2019	5.125%	2.46	50,000	51,242	51,787	1,262
FEDERAL HOME LOAN BKS CONS BDS	AA+	07/01/2019	4.375%	2.63	100,000	101,598	102,565	2,672
FEDERAL HOME LOAN BKS CONS BDS	AA+	03/13/2020	4.125%	2.64	125,000	127,840	131,004	3,378
FEDERAL NATL MTG ASSN	AA+	01/21/2020	1.625%	2.58	100,000	98,697	101,010	2,548
FEDERAL NATL MTG ASSN	AA+	06/22/2020	1.500%	2.62	100,000	98,063	100,844	2,569
FEDERAL NATL MTG ASSN	AA+	11/30/2020	1.500%	2.68	100,000	97,479	100,746	2,611
FEDERAL NATL MTG ASSN	AA+	12/28/2020	1.875%	2.69	175,000	171,878	177,762	4,620
FEDERAL NATL MTG ASSN	AA+	02/26/2021	1.375%	2.68	180,000	174,326	180,110	4,668
FEDERAL NATL MTG ASSN	AA+	01/14/2019	3.275%	2.32	100,000	100,361	100,860	2,330
FEDERAL HOME LN MTG CORP	AA+	03/27/2019	3.750%	2.32	250,000	251,975	255,679	5,841
FEDERAL HOME LN MTG CORP	AA+	05/30/2019	1.750%	2.42	100,000	99,514	100,846	2,409
FEDERAL HOME LN MTG CORP	AA+	08/01/2019	1.250%	2.45	100,000	98,897	100,442	2,421
FEDERAL HOME LN MTG CORP	AA+	10/02/2019	1.250%	2.51	100,000	98,668	100,389	2,479
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	12/01/2020	4.000%	2.97	38,699	39,627	40,549	1,177
FEDERAL NATL MTG ASSN GTD PASSTHRU	N.A.	07/01/2019	4.821%	3.71	167,890	170,078	186,253	6,310
JPMORGAN CHASE & CO SR NT	A	03/01/2021	2.550%	3.18	50,000	49,233	50,813	1,567
LANCASTER CNTY NEB SCH DIST NO SCH	AA+	01/15/2021	4.550%	3.26	50,000	51,665	52,994	1,682
NORFOLK VA GO CAP IMPT BDS 2010 B	AA	03/01/2019	4.650%	-	100,000	101,099	102,647	-
U S BANCORP MTNS BK ENT FR	A+	11/15/2018	1.950%	2.31	100,000	99,936	100,051	2,313
UNIVERSITY CALIF REVS FOR PREV GEN	AA	07/01/2019	1.796%	2.55	50,000	49,663	49,856	1,266
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	10/26/2018	1.010%	2.44	200,000	199,660	200,000	4,868
MONTGOMERY CNTY MD CTF5 PARTN COPS	N.A.	11/01/2019	1.200%	2.66	100,000	98,126	100,029	2,611
BANK NEW YORK MTN BK ENT FR	A+	11/27/2020	2.450%	3.09	150,000	148,058	153,219	4,579
GILEAD SCIENCES INC SR NT	A-	09/01/2020	2.550%	2.99	150,000	148,670	154,025	4,445
WISCONSIN ST GEN FD ANNUAL APP REV	AA-	05/01/2021	1.616%	3.04	100,000	96,239	100,096	2,924
FEDERAL HOME LN MTG CORP	AA+	08/25/2021	1.500%	2.87	90,000	87,314	90,000	2,506
METRO WASTEWTR RECLAMATION DIS REV	AA+	04/01/2019	4.718%	3.50	100,000	101,136	103,608	3,539
WACO TEX INDPT SCH DIST REF BDS	N.A.	02/15/2020	4.000%	2.73	55,000	55,818	57,179	1,524
FEDERAL HOME LN MTG CORP	AA+	03/30/2021	1.500%	2.81	60,000	58,194	60,000	1,632
FEDERAL HOME LN MTG CORP	AA+	09/30/2021	1.050%	3.49	100,000	97,276	99,900	3,399
FEDERAL NATL MTG ASSN	AA+	09/30/2019	1.250%	2.76	60,000	59,209	59,985	1,634
FEDERAL NATL MTG ASSN	AA+	05/26/2021	1.800%	2.90	60,000	58,299	60,000	1,691
FEDERAL HOME LN MTG CORP	AA+	12/30/2020	1.750%	2.80	100,000	97,852	100,000	2,737
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2021	2.030%	2.91	80,000	78,102	80,000	2,272
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	01/24/2022	2.050%	2.97	60,000	58,333	60,000	1,734
FEDERAL HOME LN MTG CORP MEDIUM	AA+	07/27/2020	1.625%	2.74	40,000	39,250	40,000	1,074
FEDERAL HOME LN MTG CORP	AA+	10/26/2021	2.000%	2.86	150,000	145,569	150,000	4,163
FEDERAL HOME LOAN BKS CONS BDS	AA+	04/27/2022	2.300%	2.88	150,000	147,372	149,663	4,244
FEDERAL HOME LN MTG CORP	AA+	05/01/2020	1.375%	2.61	260,000	254,855	258,975	6,654
FEDERAL NATL MTG ASSN	AA+	10/07/2021	1.375%	2.74	80,000	76,838	79,170	2,102
FEDERAL HOME LN MTG CORP	AA+	01/13/2022	2.375%	2.78	120,000	118,522	122,351	3,294
FEDERAL NATL MTG ASSN	AA+	01/05/2022	2.000%	2.78	220,000	214,405	219,487	5,960
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/12/2020	1.750%	2.63	260,000	255,853	261,204	6,724
FEDERAL NATL MTG ASSN	AA+	05/06/2021	1.250%	2.68	260,000	250,513	257,529	6,709
FEDERAL NATL MTG ASSN	AA+	08/17/2021	1.250%	2.72	260,000	249,324	256,849	6,792
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	07/19/2022	1.900%	2.93	290,000	280,213	291,114	8,202
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	08/03/2022	1.900%	2.92	290,000	280,082	290,612	8,181
FEDERAL NATL MTG ASSN	AA+	04/05/2022	1.875%	2.79	300,000	290,745	301,002	8,103
FEDERAL HOME LOAN BKS CONS BDS	AA+	08/15/2022	1.850%	2.89	85,000	82,188	85,547	2,376
FEDERAL NATL MTG ASSN	AA+	09/28/2020	1.750%	2.85	180,000	176,701	180,000	5,031
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/04/2022	2.100%	2.99	280,000	272,672	280,000	8,153
FEDERAL HOME LN MTG CORP	AA+	10/12/2021	2.000%	2.88	180,000	175,196	180,000	5,053
HOME DEPOT INC SR GBLB NT	A	04/01/2021	2.000%	2.93	60,000	58,541	59,879	1,716
ORACLE CORP SR GBLB	A+	05/15/2022	2.500%	3.10	120,000	117,546	120,118	3,647
PHILIP MORRIS INTL INC SR NT	A	03/26/2020	4.500%	2.91	55,000	56,312	57,680	1,637
STARBUCKS CORP SR GBLB	BBB+	02/04/2021	2.100%	3.09	60,000	58,664	59,984	1,812
FEDERAL HOME LN MTG CORP	AA+	12/29/2021	2.250%	2.92	80,000	78,405	80,000	2,285
FEDERAL HOME LOAN BKS CONS BDS	AA+	11/29/2021	1.875%	2.75	120,000	116,855	118,362	3,210
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	11/22/2021	2.740%	3.04	100,000	99,294	99,975	3,020
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	03/07/2022	2.850%	3.09	80,000	79,933	80,000	2,471
FEDERAL HOME LN MTG CORP	AA+	02/24/2023	3.000%	3.15	60,000	59,796	59,988	1,885
FEDERAL NATL MTG ASSN	AA+	03/26/2021	2.700%	2.97	140,000	139,688	140,000	4,142
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	04/18/2022	2.830%	3.10	150,000	149,613	150,000	4,638
FEDERAL HOME LN MTG CORP	AA+	03/15/2023	3.000%	3.15	150,000	149,241	149,850	4,701
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/14/2021	2.810%	3.03	100,000	99,754	100,000	3,024
FEDERAL FARM CR BKS CONS SYSTEMWIDE	AA+	06/20/2022	3.090%	3.22	100,000	99,843	99,925	3,212
FEDERAL HOME LOAN BKS CONS BDS	AA+	06/28/2022	3.060%	3.15	100,000	100,038	100,000	3,150
FEDERAL HOME LOAN BKS CONS BDS	AA+	05/02/2023	3.150%	3.20	150,000	149,760	149,738	4,795
CASH & EQUIVALENTS	-	-	-	1.86	-	672,837	672,837	12,515
Stage 2 Capacity Reserve Total						\$ 9,776,173	\$ 9,984,750	\$ 266,458
Subtotal, Bank of the West						\$ 30,599,920	\$ 31,200,537	\$ 837,996

Broker/Dealer Investment Name	Composite Credit	Maturity	Coupon Rate	Yield to Maturity	Par Value	Market Value	Cost	Estimated Annual \$ Yield Earnings
California Local Agency Investment Fund		LAIF	-	1.944	\$	704,714	\$ 704,714	13,700
TOTAL UNRESTRICTED INVESTMENTS					\$	31,304,634	\$ 31,905,251	\$ 851,696
Bank of New York (Trustee)								
2009 Reserve Account - Federal National Mortgage Assn 3136G3Q73	Aaa	7/26/2019	1.150%	1.16		4,721,110	4,780,000	54,765
2009 Reserve Account - BMW BK North Amer Salt Lake 05580ACK8	Aa	7/24/2019	2.000%	2.01		149,069	150,000	2,996
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS			0.000%	1.82		160,709	160,709	2,925
2009 Reserve Account - Morgan Stanley Treas Sec X9USDMORS			0.000%	1.82		62,656	62,656	1,140
2009 Revenue FD Account - Morgan Stanley Treas Sec Portfolio X9USDMORS			0.000%	1.82		3,804	3,804	69
2009 Revenue FD Account - Morgan Stanley Treas Sec INST X9USDMORS			0.000%	1.86		13	13	0
2014 Revenue Account - Goldman FS Money MKT INST 474 X9USDGLD4			0.000%	2.17		11	11	0
2014 Revenue Account - Goldman Sachs Fin Sq Instl X9USDGLD4			0.000%	2.17		414	414	9
2014 Revenue Account - Cash			0.000%	-		9	9	-
2014 Interest Account - Goldman Sachs Fin Sq Instl X9USDGLD4			0.000%	2.19		13	13	0
2014 Principal Account - Goldman Sachs Fin Sq Instl X9USDGLD4			0.000%	2.23		7	7	0
2014 COI Account - Cash			0.000%	-		2	2	-
2015 Project Account - Cash			0.000%	-		2	2	-
2015 Revenue Account - JP Morgan Prime MMKT Instl X9USDJPMP			0.000%	2.04		163	163	3
2015 Revenue Account - Cash			0.000%	-		4	4	-
2009 Escrow - United States Treasury 912828B33	Aaa	1/31/2019	1.500%	1.50		601,161	610,349	9,017
2009 Escrow - Tunisia Government Aid Bonds 066716AG6	Aaa	7/16/2019	1.686%	1.70		40,051,043	40,944,692	680,868
2009 Escrow - Cash			0.000%	-		3,857	3,857	-
Subtotal, Bank of New York (Trustee)					\$	45,754,049	\$ 46,716,707	\$ 751,794
Less Amounts held in Escrow for 2009 Bond Defeasance					\$	(40,656,061)	\$ (41,558,898)	\$ (689,885)
Net Total, Bank of New York (Trustee)					\$	5,097,989	\$ 5,157,809	\$ 61,909
Zions Bank (Trustee)								
US Treasury Notes 912828RH5	Aaa	9/30/2018	1.375%	1.91	4,900,000	4,897,795	4,897,928	93,548
US Treasury N/B 912828U99	Aaa	12/31/2018	1.250%	2.04	3,370,000	3,359,968	3,361,378	68,543
US Treasury Notes 912828B33	Aaa	1/31/2019	1.500%	2.06	1,500,000	11,564,655	11,573,241	238,232
US Treasury Notes 912828B33	Aaa	1/31/2019	1.500%	2.07	1,500,000	1,495,430	1,496,481	30,955
US Treasury Notes 912828C24	Aaa	2/28/2019	1.500%	2.09	15,500,000	15,441,875	15,454,734	322,735
US Treasury Notes 912828P95	Aaa	3/15/2019	1.000%	2.11	10,300,000	10,231,999	10,239,395	215,895
US Treasury Notes 912828ST8	Aaa	4/30/2019	1.250%	2.12	16,430,000	16,312,558	16,336,502	345,826
US Treasury Notes 912828SX9	Aaa	5/31/2019	1.125%	2.14	13,550,000	13,425,611	13,449,230	287,308
Dexia Credit Local SA NY Comm Paper 25214PEO2	P-1	3/9/2019	0.000%	2.20	3,900,000	3,891,572	3,891,067	85,615
Toyota Motor Credit Corp Comm Paper 89233HM35	P-1	3/8/2019	0.000%	2.32	3,900,000	3,877,240	3,877,029	89,952
Toyota Motor Credit Corp Comm Paper 89233HM43	P-1	3/8/2019	0.000%	2.33	2,400,000	2,385,826	2,385,649	55,590
Toronto Dominion Bank NY Cert Depos 89113XZJ6	P-1	3/9/2019	2.500%	2.50	6,300,000	6,224,177	6,300,000	155,604
CAMP Pool	NR			2.11		29,571,223	19,148,346	623,953
Total, Zions Bank (Trustee)					\$	122,679,929	\$ 112,410,980	\$ 2,613,757
Uninvested Operating Cash						2,003,398	2,003,398	-
TOTAL CASH & INVESTMENTS, UNRESTRICTED AND WITH TRUSTEE					\$	161,085,950	\$ 151,477,438	\$ 3,527,361
Weighted Average Yield to Maturity %								2.19%

Summary by Investment Type:	Market Value
US Treasuries	\$ 77,026,130
Agencies	29,188,594
Commercial Paper / Corporate Bonds	12,590,933
Municipal Bonds / Notes	2,099,632
Money Market / Certificates of Deposit	39,475,946
Local Agency Investment Fund	704,714
TOTAL	\$ 161,085,950

Summary by Purpose / Restriction Level	Market Value
Working Capital	\$ 2,708,112
Operations & Capital Budget Reserve	3,509,797
Capital Improvement Program Reserve	17,313,951
Stage 2 Capacity Reserve	9,776,173
Debt Reserve	5,097,820
Debt Proceeds	122,680,098
TOTAL	\$ 161,085,950

Summary by Liquidity:	Market Value
0-1 years	\$ 136,847,440
1 years	7,391,633
2 years	7,286,178
3-5 years	9,560,699
TOTAL	\$ 161,085,950

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



M. Anderson

8/31/2018

AGENDA ITEM 5D

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**ENGINEERING REPORT: SEPTEMBER 2018
CAPITAL IMPROVEMENT PROGRAM IMPLEMENTATION**

Energy Storage Project (9180): Contract with system provider to build and operate a battery system for the plant

In April 2017 the Commission authorized staff to negotiate a contract with a system provider to design, build, and operate a battery storage system for the plant's electrical loads. SVCW has had discussions with AMS to provide these services, including the application for a SGIP grant from PG&E. There are two contracts that have been negotiated for this project. One is for the purchase and installation of the battery, and the other is for monitoring and maintenance.

Planned Commission Actions: Approve Contracts - October 2018

Biological/Secondary Process Optimization (9400): Plan and construct project to remove nitrogen and phosphorus from plant effluent.

SVCW has a placeholder project and budget in the CIP in anticipation of future new regulations that may limit the amount of nitrogen and phosphorus that is discharged into the Bay. The Regional Water Quality Control Board has indicated that these regulations will become part of a future NPDES permit renewal, although the timing is yet to be determined.

SVCW has been in discussions with a firm that implements a technology that is very common in Europe for removal of nutrients and has developed a scope of work for a feasibility study to determine if the technology can be used at SVCW.

Planned Commission Actions: Approve Feasibility Study - October 2018

Pump Stations Rehabilitation and Replacement (7004, 7005, 7008, 7011): Rehabilitate or Replace three pump stations and connect them to new Gravity Pipeline.

The RESCU Program includes rehabilitation or replacement of the Belmont, Redwood City, and Menlo Park Pump Stations, and construction of the Belmont Force Main to connect the Belmont system to the Gravity Pipeline. Preliminary design work has been completed by Brown and Caldwell. SVCW has decided to deliver these projects as a combined Progressive Design Build Project, with Brown and Caldwell acting as Owner's Advisor. SVCW received Statements of Qualifications from 4 qualified Design Builders and has shortlisted 2 of the design-build entities. Requests for Proposal have been sent to each Design Build Entity.

Planned Commission Actions: Make Finding of Project to be Substantially Complex
– November 2018
Award Project – February 2019

Gravity Pipeline (6008) and Front of Plant Projects (6013, 6014, 9160): Deliver these two RESCU projects using a Progressive Design Build delivery method.

On October 5, 2017 the Commission awarded a contract to Barnard/Bessac Joint Venture (BBJV) for the Stage 1 Progressive Design Build contract on the Gravity Pipeline project. On November 9, 2017 the Commission awarded a contract to Shea/Parsons Joint Venture for the Stage 1 Progressive Design Build contract on the Front of Plant project.

The JV teams, SVCW staff, and consultants meet multiple times a week to coordinate and discuss proposed designs, develop O/M options, and organize efforts between the design-build teams. As designs have been developed, early construction packages have been authorized by the Commission to begin preparation work and order large equipment having long lead-times for delivery.

The JV teams are in the process of finalizing the designs and developing costs for Stage 2 amendments which will provide for the completion of the design and construction of the project.

Planned Commission Actions: Approve Stage 2 Design Build Amendments –
November and December 2018

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

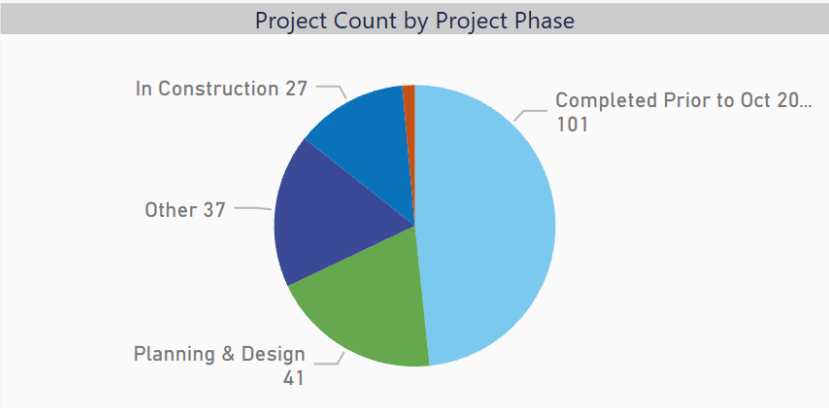
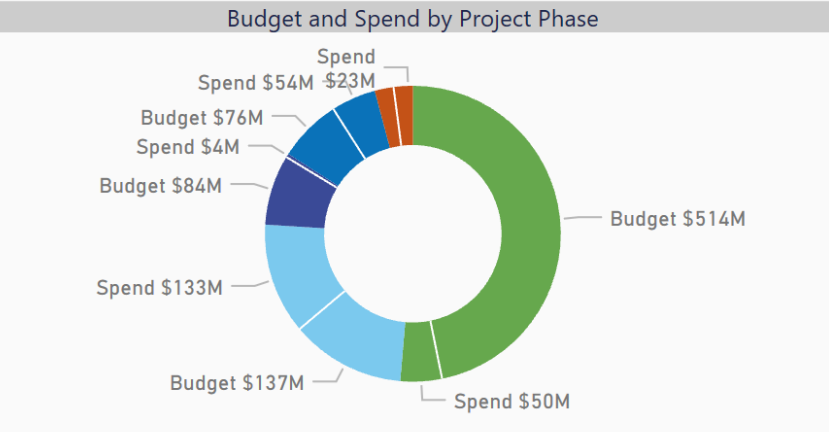
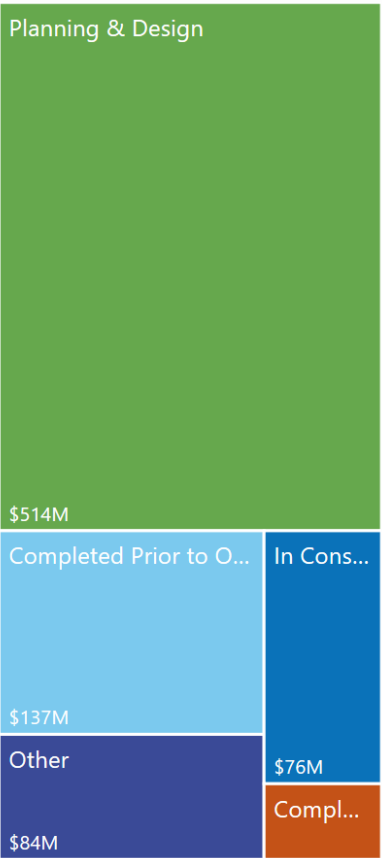
On September 14, 2017 the Commission approved the emergency expenditure of funds for the repair of essential facilities. On November 9, 2017 The Commission later approved a total budget amount of \$2,347,412 to perform work on a time and material basis to resolve the failing 12kV electrical vault. Beecher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

A new concrete vault was placed on the main building side of the tunnel and is incorporated into the tunnel structure. A new conduit run was constructed along the building to the new vault at the tunnel. Power Engineering completed excavation under the SHB and constructed a new duct bank structure to connect the 12kV power lines to the new vault at the tunnel. The underground tunnel is pile supported and will offer the most stable pathway between the structures to ensure the new conduits and vault will not subside in the future.

Planned Commission Actions: Accept Project and File Notice of Completion –
November 2018

CIP Spend Analysis

Project Phase	Project Count	2017 CIP Budget	Actual Spend	Remaining	% Unspent
Completed Prior to Oct 2017 CIP Update	101	\$137,234,509	\$132,923,997	N/A	N/A
Completed Post Oct 2017 CIP Update	3	\$22,629,960	\$22,922,149	\$-292,188	-1.29%
In Construction	27	\$75,587,626	\$53,588,434	\$21,999,192	29.10%
Planning & Design	41	\$513,864,043	\$49,763,992	\$464,100,051	90.32%
Other	37	\$84,349,902	\$4,441,930	\$79,907,972	94.73%
Total	209	\$833,666,040	\$263,640,502	\$565,715,027	67.86%



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

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

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

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

** The data presented in this Report is from June 2018. Due to the migration of our financial system we are still working on extracting this information from Great Plains.

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AGENDA ITEM 5E

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Silicon Valley Clean Water
Commissioners' Requested Action Items
Updated: 10/03/2018

OCTOBER 11, 2018
AGENDA ITEM 5E

Commission Meeting Date	Action Item		Requested or Estimated Date for Completion	Status			Date of Completion	Notes
				Ongoing	In Progress	Complete		
8/23/2018	1	Item 8B error in bid summary sheet; note in minutes	10/11/2018			✓	10/3/2018	
7/12/2018	1	Provide interim financials for end of FY17-18	8/23/2018			✓	8/11/2018	Interim financials provided; audited financials to be presented to Commission in October/November 2018
	2	Reschedule December meeting to late November or early December	8/23/2018			✓	7/15/2018	December Commission meeting scheduled for December 6
	3	Prepare Commission member on-boarding package	first quarter 2019		✓			Ready for new Commissioners to bring up to date/provide background information on SVCW policies and strategy
6/28/2018	1	No new items at this meeting						
6/14/2018	1	8B - Front of Plant project, report back if allowance is used	N/A		✓			Allowance was provided for up to 40 additional piles
	2	8C - Line of Credit; report back if proportion of use changes from JPA apportionment	N/A		✓			Currently use is proportional to JPA apportionment; should use of the LOC proportionally change, report this to Commission.
	3	8E - JPA Amendment; re-initiate "clean up" to JPA	N/A		✓			Make required and requested changes to the JPA a priority.
5/10/2018	1	No new items at this meeting						
4/12/2018	1	Prepare letter in Support of AB1912	N/A			✓	4/17/2018	Prepare for John Seybert signature. Include all Commission names and who they're representing.
	2	FY18-19 Operating Budget	1-2 weeks			✓	5/2/2018	Send e-version, along with Benchmarking Chart of SVCW costs compared to other Bay Area WWTP costs, to Commissioners (Benchmarking Only), Member Agency Finance Directors and Tech Committee members.
3/8/2018	1	Prepare memo for LRFP indicating how many dollars SVCW's procurement process and management strategies are saving	N/A		✓			In response to the fact that SVCW staff is implementing significant projects with relatively little overhead costs.
	2	Recycled Water Workshop in Stanford	April			✓	4/12/2018	Reported highlights from the Recycled Water Workshop held at Stanford on March 9
	3	Operating Budget Benchmarking	April			✓	4/12/2018	Benchmark SVCW's operating budget increase with other agencies in the Bay Area; reported out at April meeting.
1/18/2018	1	RESCU Program and Project Updates	N/A	✓				When available, upload monthly dashboard summary reports onto website and email to Tech Cmte members.
	2	Gravity Pipeline Acquisitions	N/A		✓			Report out on acquisition results when available.

Silicon Valley Clean Water
Commissioners' Requested Action Items
Updated: 10/03/2018

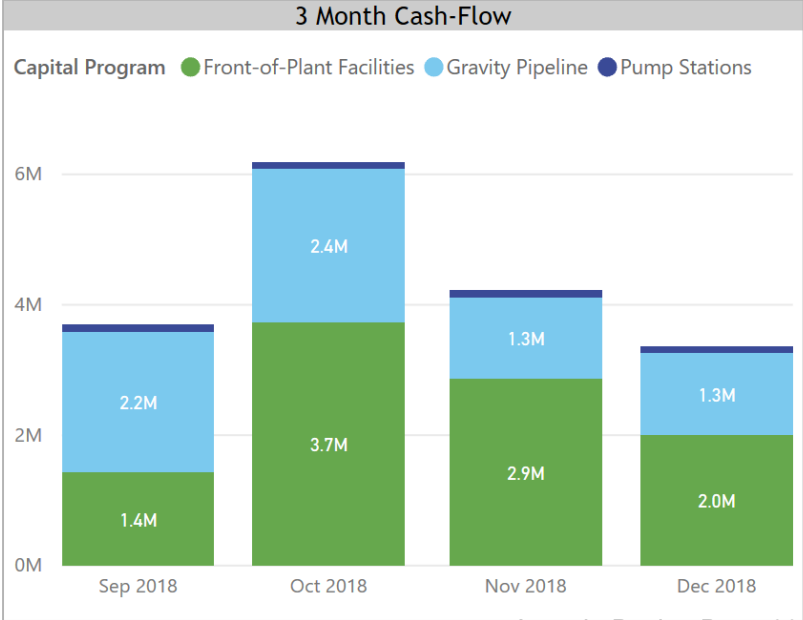
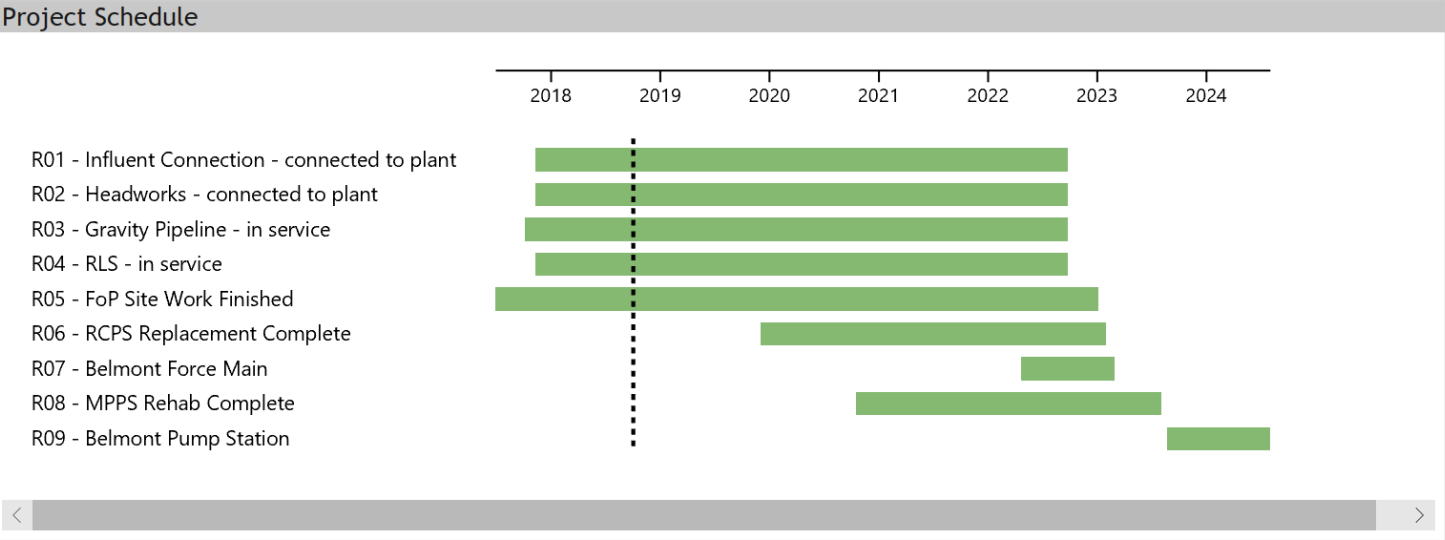
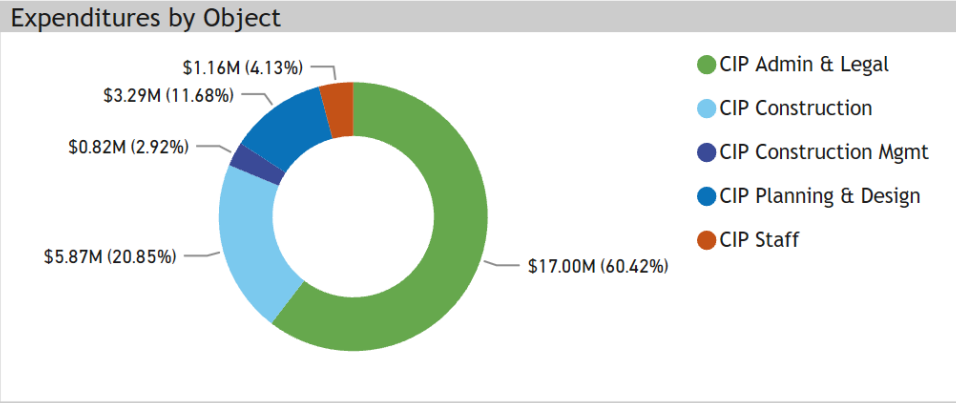
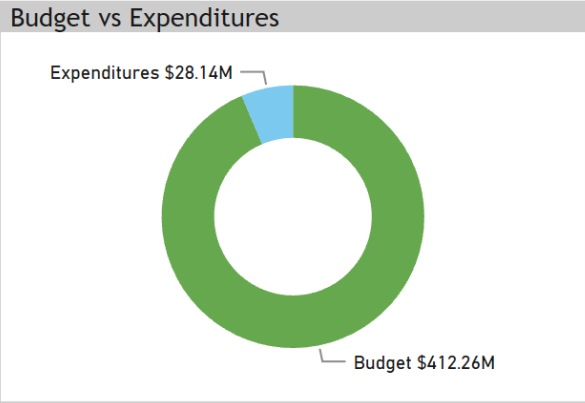
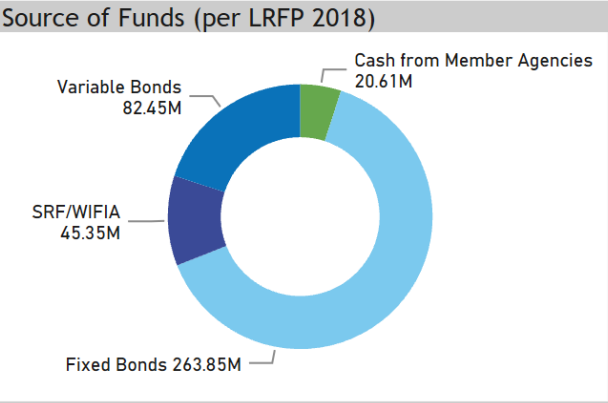
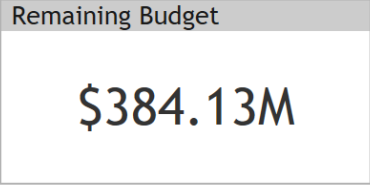
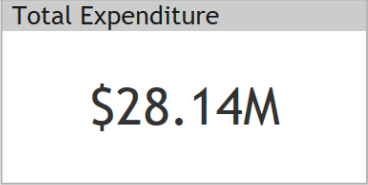
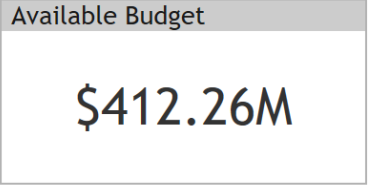
OCTOBER 11, 2018
AGENDA ITEM 5E

Commission Meeting Date	Action Item		Requested or Estimated Date for Completion	Status			Date of Completion	Notes
				Ongoing	In Progress	Complete		
12/14/2017	1	Change Design-Build Policy to reflect a sunset date of December 31, 2024 to current amount of \$300k Manager-authorization level for construction change orders unless extended by the Commission at a later date	12/14/2017			✓		Changes made to Approved Resolution
11/9/2017	1	Prepare and install signage for Front of Plant area describing what's occurring for public	12/1/2017			✓		Sign designed and installed.
10/5/2017	1	When SVCW can begin exporting power to grid, make public for positive public relations standpoint	N/A		✓			While this is a good opportunity for positive public relations, it will take many months and maybe years to reach the point that SVCW is routinely exporting power. Updates will be provided to the Commission until the program is implemented.
	2	Project delay costs	N/A	✓			Ongoing	Inform Commission of any potential delays that could add time and costs to projects they have authorized.
9/14/2017	1	Add Consent Item re: payment to Mobile Modular	10/5/2017			✓	10/5/2017	Payment to Mobile Modular in the amount of \$68k was included in an Action at the November Commission meeting.
	2	Begin process to get onto City's and WBSD's Board meetings' calendars to discuss upcoming bond issuance.	9/20/2017			✓	10/5/2017	Council and Board meeting calendars fill up quickly; to ensure SVCW's bond issuance is considered by each member agency, issue a memo/email to each to get onto December calendars.
	3	Provide recommendation on increased Manager-authority for two Design-Build projects	12/14/2017			✓	12/14/2017	Included in Agenda action on 12/14/2017
> One Year	1	MOU Negotiations	10/11/2018		✓			Tentative agreement has been reached and represented employees voted to ratify the MOU. It will be presented to the Commission at the October meeting for approval.
	2	Greendale property construction progress	11/8/2018		✓			One item of work remains to complete; the Engineering Director is handling coordination with the contractor. A summary of costs will be presented to the Commission at the October or November 2018 meeting.
	4	Connection Fees	NA		✓			Additional plant capacity evaluation is underway to ensure proper flow numbers are used in the calculations. Will be incorporated into upcoming JPA changes.

AGENDA ITEM 5F

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

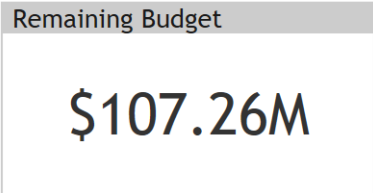
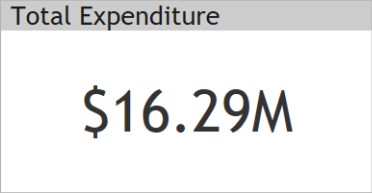
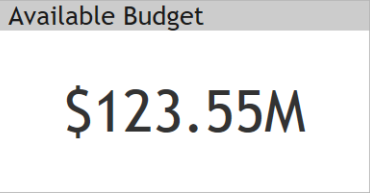


As of : 2018 - 09

Front of Plant Progressive DB Project



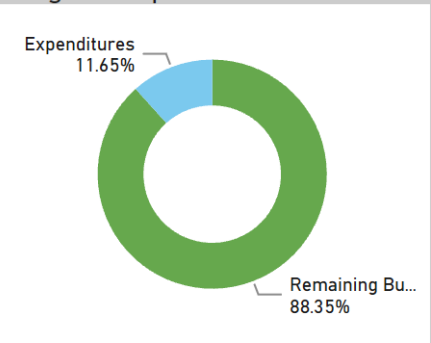
The Front of Plant (FoP) Project consists of the design, construction, permitting, start-up, commissioning, and final acceptance for the Receiving Lift Station (RLS), Surge and Flow Splitter (SFS), Headworks Facility, Odor Control Facilities, Influent Connector Pipe, Chemical Offload Facilities, Civil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



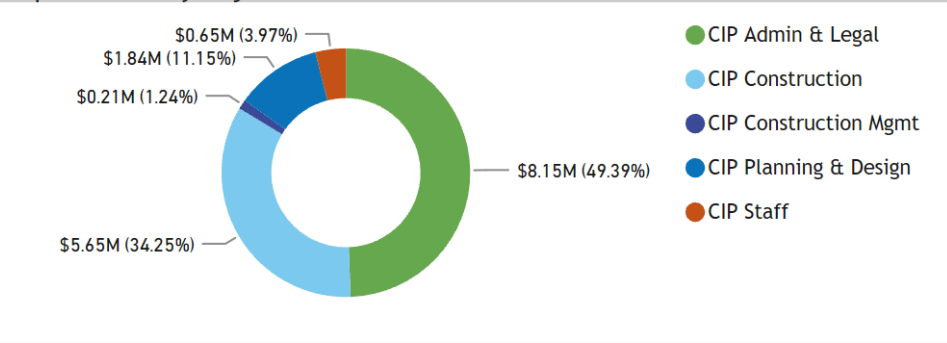
Milestone Schedule

	Start	Finish
Notice to Proceed - Stage 1 Services		11/28/2017
Submission of Basis of Design Report (BODR)		5/23/2018
Submission of 30 Percent (%) Design Documents		7/26/2018
Submission of 60 Percent (%) Design Documents	11/8/2018	
Stage 2A - Piles		6/14/2018
Stage 2B - RLS Shaft Preparation		7/12/2018
Stage 2C - RLS Shaft Construction		8/23/2018
Stage 2D - Balance of Stage 2 Work	12/6/2018	
Stage 1 Services Complete	12/13/2018	

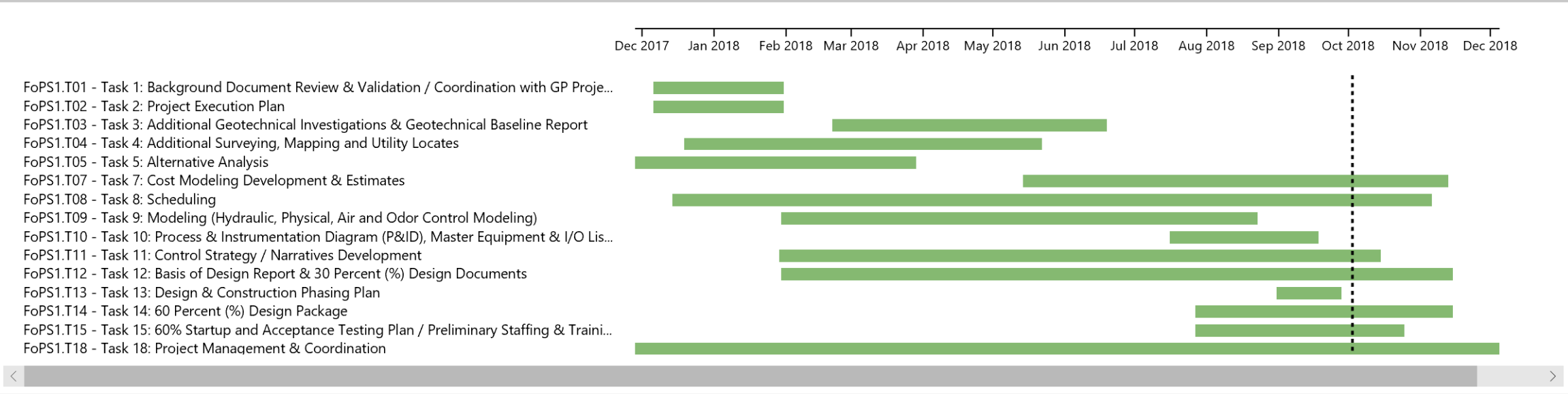
Budget vs Expenditures



Expenditures by Object



Schedule



As of : 2018 - 09

Major Accomplishments this Period

▼	
Design	<ul style="list-style-type: none"> - Finalized the BODR - Finalized the design of the RLS shaft and the Surge and Flow Splitter (SFS) after the scope of work was transferred the GP project to the FoP project - SVCW held multiple design review workshops to review the 30% Design Package - Progressed design of the 60% Design package - Reviewed grit/screening vendors
Procurement of Trade Packages	- Completed an August 2018 early release package for the construction of the RLS and the Surge and Flow Splitter (SFS)
Construction	<ul style="list-style-type: none"> - Indicator piles driven and Pile Driver Analysis complete - Began pile fabrication for the Headworks Facility and the RLS discharge piping

Upcoming Key Activities

Hold Review Meeting with SVCW for final results from physical modeling of RLS (scheduled 10/11/18)
Continue detailing RLS and Headworks facilities
Submit 60% Design Package
Complete pile installation

3 - Month Look Ahead

	Start	End	October	November	December
Stage 2 Negotiations	November 14, 2018	November 26, 2018		X	
Submit/Review/Finalize 60% Design Package	September 24, 2018	November 8, 2018	X	X	

Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0

Gravity Pipeline Progressive DB Project



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

Available Budget

\$221.88M

Total Expenditure

\$10.79M

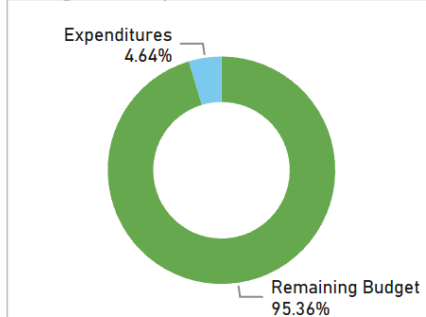
Remaining Budget

\$211.09M

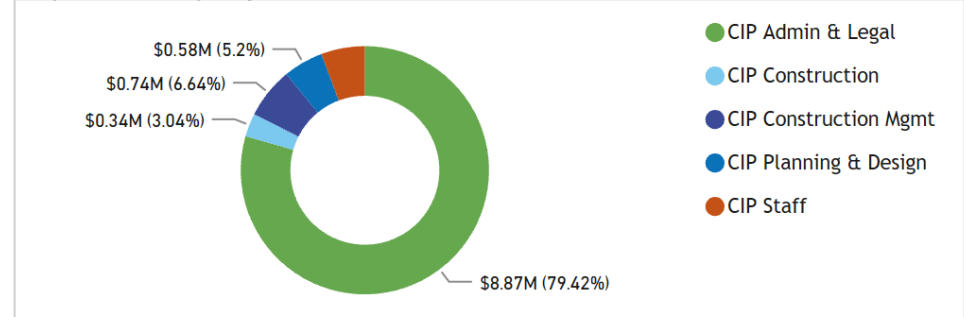
Milestone Schedule

	Start	Finish
Notice to Proceed - Stage 1 Services		10/13/2017
Basis of Design Report (BODR)	10/26/2018	
30 Percent (%) Design Documents	11/2/2018	
60 Percent (%) Design Documents	12/5/2018	
Stage 2A Approval - TBM Purchase, Airport Clear and Grub, Crane purchase		8/23/2018
Stage 2B Approval - Balance of Stage 2 Work	9/17/2018	11/8/2018
Stage 1 Services Complete	10/13/2017	12/21/2018

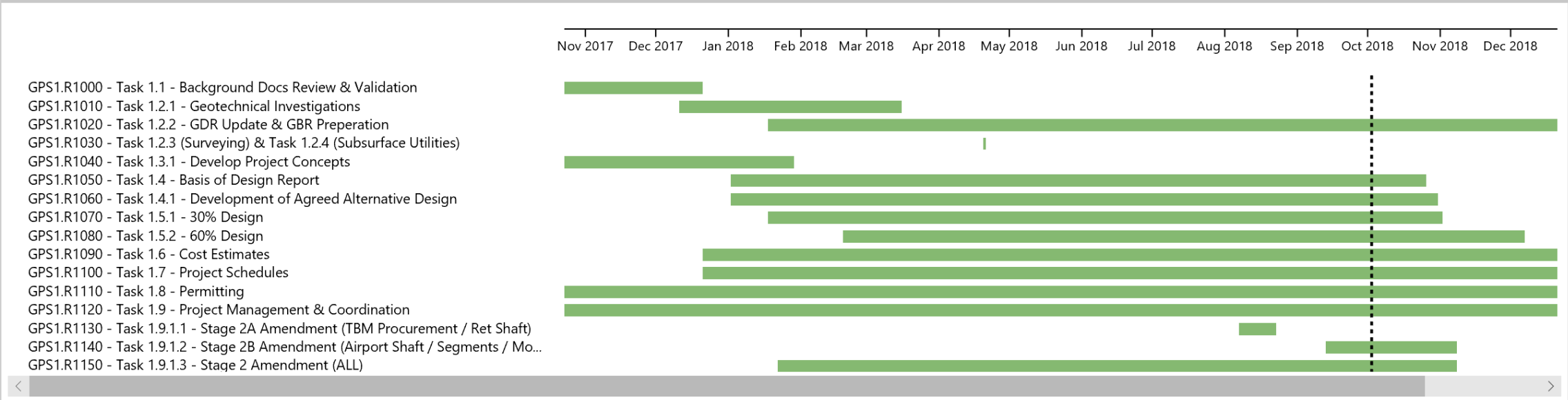
Budget vs Expenditures



Expenditures by Object



Schedule



As of : 2018 - 09

Major Accomplishments this Period

Design	<ul style="list-style-type: none"> - Completed GBR for the TBM manufacturer, continuing efforts on Project GBR - Continued sediment transport modeling - Continued air flow and H2S concentration modeling. Coordinating with FoP DB team - Progressed Airport Access Shaft design to 100% - Continued design of Bair Island and San Carlos shafts to 30% - Continued cost savings initiatives to lower Project cost - Evaluated muck conveyance options due to unforeseen limitations by FAA on crane height.
Procurement of Trade Packages	<ul style="list-style-type: none"> - Continued selection process for SOE Subcontractors - Ongoing discussions with FRP pipe manufacturers - Finalized TBM manufacturer pricing - Outreach in conformance with SRF and WIFIA funding requirements
Construction	<ul style="list-style-type: none"> - Started TBM Launch Site preparation

Upcoming Key Activities

Geotechnical Baseline Report
Airflow and grit transport design
Airport Access shaft coordination with San Carlos Airport
Inner Bair Island retrieval shaft design
Cost Reduction efforts to keep GP under budget
Stage 2B Amendment Negotiation and Approval

3 - Month Look Ahead

	Start	End	October	November	December
Airport Access Shaft Design (100% Design)	August 24, 2018	October 11, 2018	X		
Airport Access Shaft Site Preparation	September 17, 2018	November 8, 2018	X	X	
Bair Island Shaft Design (60% Design)	August 8, 2018	November 2, 2018	X	X	
Geotechnical Baseline Report	January 10, 2018	December 21, 2018	X	X	X
Hydraulic Design (60% Design)	August 15, 2018	November 5, 2018	X	X	
San Carlos Shaft Design (60% Design)	August 15, 2018	November 7, 2018	X	X	
TBM Procurement	January 22, 2018	August 23, 2019	X	X	X
Tunnel Design (60% Design)	April 26, 2018	November 5, 2018	X	X	

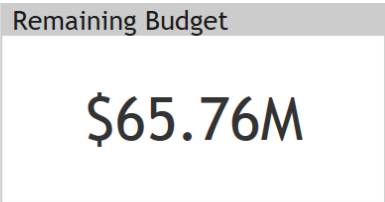
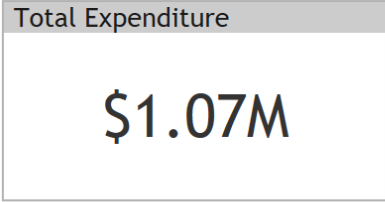
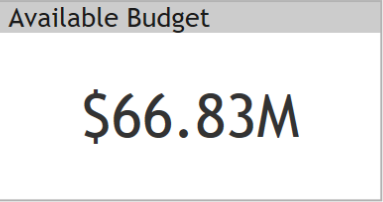
Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0

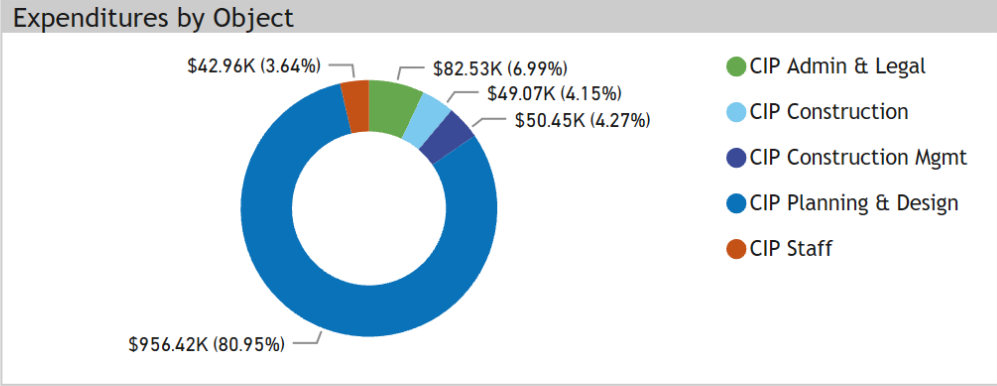
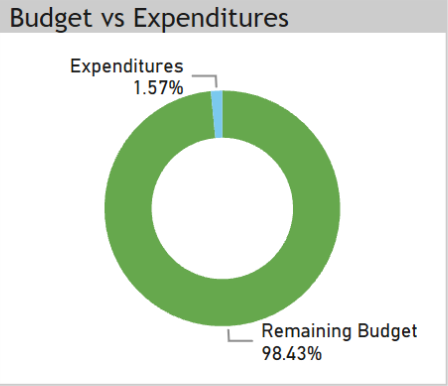
Pump Stations



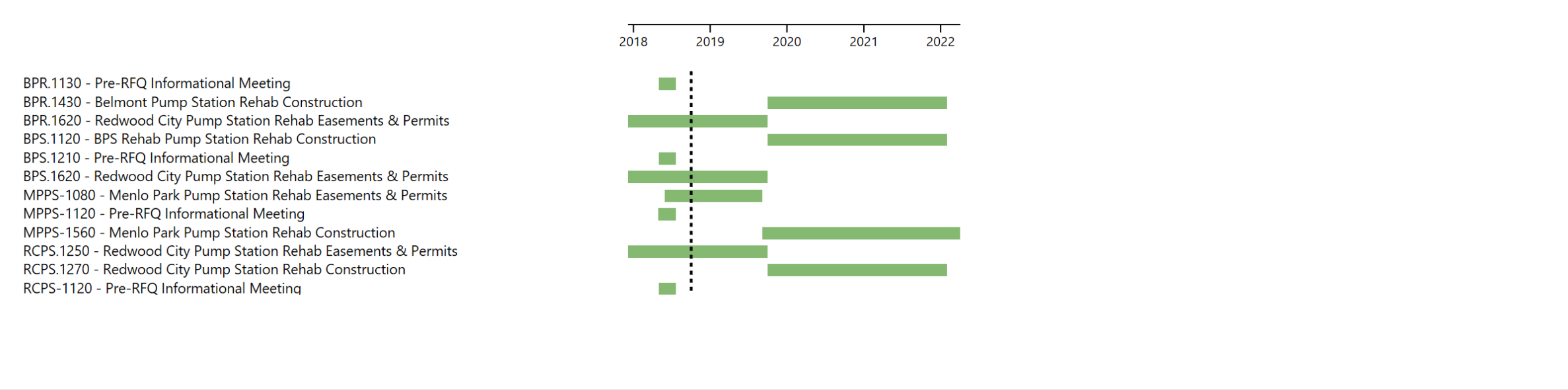
▼
All SVCW pump stations require replacement or rehabilitation. Menlo Park PS will be rehabilitated. Redwood City PS will be replaced. Belmont PS will be rehabilitated. San Carlos PS is no longer needed due to the new gravity pipeline; flows from San Carlos and Belmont will enter into the gravity pipeline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



Milestone Schedule		
	Start	Finish
PSI Project Procurement process approved by commission	7/13/2018	7/13/2018
Issue RFQ	7/16/2018	7/16/2018
D/B Selection Process - short list established	7/16/2018	9/28/2018
RFP issued	10/1/2018	
D/B Selection Process - proposals submitted	12/10/2018	



Schedule



Major Accomplishments this Period

- Design
- Significant interaction with SVCW O&M team and design team
 - Preliminary decisions on MPPS: no bar screens, add trash rack, use chopper pumps; all decisions to be verified
 - Preliminary decisions on RCPS: bar screens
 - Decision: RCPS a wet well/dry well PS
 - Coordinated design build contractor outreach for RFQ process

Upcoming Key Activities

- D/B Short List Established
- RFP Development Underway

3 - Month Look Ahead

	Start	End	October	November	December
Issue RFP and Receive Proposals	October 1, 2018	December 10, 2018	X	X	X

Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0

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AGENDA ITEM 7A

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**MINUTES OF SILICON VALLEY CLEAN WATER
SPECIAL MEETING – August 23, 2018
8:00 a.m.**

ITEM 1

CALL TO ORDER

ITEM 2

ROLL CALL - Commissioners Duly Appointed by Each Agency
Council Member John Seybert, Redwood City – Chair
Council Member Warren Lieberman, PhD., Belmont– Vice Chair
Mayor Robert Grassilli, San Carlos – Secretary
Board Member George B. Otte, P.E., West Bay Sanitary District

Staff, Consultants and Visitors Present

Christine C. Fitzgerald, SVCW Legal Counsel
Teresa A. Herrera, SVCW Manager
Matt Anderson, SVCW Chief Financial Officer/Administration Manager
Monte Hamamoto, SVCW Chief Operating Officer
Kim Hackett, SVCW Engineering Director
Bruce Burnworth, SVCW Senior Engineer
Carol J. Chiovare, SVCW Administrative Assistant
Jessica Mangual, SVCW Temporary Receptionist
Paul Axiaq, SVCW Senior Plant Mechanical
Stacey Cue, IEDA
Derek Rampone, City of Redwood City
Molly Flowerday, City of Redwood City
Bill Tanner, Tanner Pacific, Inc.
Mark Minkowski, Kennedy/Jenks
Aren Hansen, Brown & Caldwell
Charlie Solt, Local 39
Jack Sucilsky, Barnard Bessac JV
Olivier Robert, Barnard Bessac JV

ITEM 3

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was recited by those in attendance.

ITEM 4

PUBLIC COMMENT

Mr. Charles Solt with Local 39 introduced himself and noted that Local 39 and SVCW's MOU negotiating team have been working together for several months to reach a

tentative agreement and are close to coming to agreement. He thanked SVCW's representatives and the Commission for working with the Union.

The Commission thanked represented staff and Local 39 for all the work they do.

ITEM 5A

SAFETY MOMENT AND REPORTS

The safety moment noted precautions to take in and around swimming pools.

As has been past practice, Warrant Registers will be emailed to Commissioners prior to the meetings and will not be included in the Agenda package. The Commission requested that if the Manager thinks there is something specific to inform the Commissioners of, a hard copy be created and presented to the Commissioners for their review.

ITEM 6

MATTERS OF COMMISSION MEMBER'S INTEREST

There were no comments.

ITEM 7

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

Motion/Second: Mr. Grassilli / Mr. Otte

The Motion carried by Unanimous Roll Call Vote.

ITEM 8A

CONSIDERATION OF RESOLUTION AWARDED CONSTRUCTION CONTRACT FOR THE CONTROL BUILDING HVAC IMPROVEMENTS PROJECT (CAPITAL PROJECT #259)

Move adoption of RESOLUTION APPROVING CONTRACT DOCUMENTS AND ACCEPTING BID OF LOWEST RESPONSIBLE BIDDER FOR THE CONTROL BUILDING HVAC IMPROVEMENTS (CIP #259); REJECTING ALL OTHER BIDS, AUTHORIZING EXECUTION OF AGREEMENT FOR SAID WORK, DIRECTING RETURN OF SECURITY DEPOSITS THEREFORE, AND AUTHORIZING MANAGER TO APPROVE CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT PRICE FOR SAID PROJECT – RODAN BUILDERS (\$685,694)

Motion/Second: Mr. Lieberman / Mr. Otte

The Motion carried by Unanimous Roll Call Vote.

ITEM 8B

CONSIDERATION OF RESOLUTION AWARDDING CONSTRUCTION CONTRACT FOR THE PUMP STATION VALVE REPLACEMENT PHASE II PROJECT (CAPITAL PROJECT #286)

The Commission noted a typo on the bid summary sheet; the amount was erroneously noted at \$4,600 and the correct amount is \$334,600. The agenda item recommendation and resolution have the correct value.

Move adoption of RESOLUTION APPROVING CONTRACT DOCUMENTS AND ACCEPTING BID OF LOWEST RESPONSIBLE BIDDER FOR THE PUMP STATION VALVE REPLACEMENT PHASE II PROJECT (CIP #286); REJECTING ALL OTHER BIDS, AUTHORIZING EXECUTION OF AGREEMENT FOR SAID WORK, DIRECTING RETURN OF SECURITY DEPOSITS THEREFORE, AND AUTHORIZING MANAGER TO APPROVE CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT PRICE FOR SAID PROJECT – D.W. NICHOLSON (\$334,600)

Motion/Second: Mr. Otte / Mr. Grassilli

The Motion carried by Unanimous Roll Call Vote.

ITEM 8C

CONSIDERATION OF RESOLUTION AWARDDING STAGE 2A AMENDMENT TO THE GRAVITY PIPELINE DESIGN-BUILD AGREEMENT WITH BARNARD BESSAC JOINT VENTURE (BBJV); RATIFY AMENDMENTS 7, 8 AND 9 AS APPROVED BY THE MANAGER AND APPROVE MPF CONSULTING MASTER SERVICES AGREEMENT AND TASK ORDER FOR PROJECT MANAGEMENT SERVICES

The Commission confirmed that this item has been approved when the Commission approved the RESCU projects and the action being taken is filling in the dollar amounts for the work.

- i. Move adoption of RESOLUTION APPROVING STAGE 2A AMENDMENT TO THE GRAVITY PIPELINE DESIGN-BUILD AGREEMENT (CIP #6008); AUTHORIZING EXECUTION OF AGREEMENT; AND AUTHORIZING MANAGER TO APPROVE CONTRACT CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT PRICE FOR SAID PROJECT – BARNARD BESSAC JOINT VENTURE (\$23,473,683)
- ii. Move approval to RATIFY MANAGER APPROVAL OF AMENDMENTS 7, 8, AND 9 TO THE GRAVITY PIPELINE DESIGN-BUILD AGREEMENT FOR PROJECT CHANGE ORDERS (\$711,785)
- iii. Move adoption of RESOLUTION APPROVING MASTER SERVICES AGREEMENT AND TASK ORDER SCOPE AND BUDGET FOR PROJECT MANAGEMENT

SERVICES IN AN AMOUNT OF \$1,437,300 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – MPF CONSULTING

Motion/Second: Mr. Lieberman / Mr. Grassilli

The Motion carried by Unanimous Roll Call Vote.

ITEM 8D

CONSIDERATION OF RESOLUTION APPROVING AMENDMENT 2C TO THE FRONT OF PLANT (FOP) DESIGN-BUILD AGREEMENT FOR J.F.SHEA/PARSONS JOINT VENTURE (SPJV)

Move adoption of RESOLUTION APPROVING AMENDMENT 2C DESIGN BUILD AGREEMENT DOCUMENTS FOR FRONT OF PLANT PROJECT (CIP #9502); AUTHORIZING EXECUTION OF AGREEMENT; AND AUTHORIZING MANAGER TO APPROVE CONTRACT CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT PRICE FOR SAID STAGE 2C AMENDMENT – SHEA/PARSONS JOINT VENTURE (\$16,745,000)

Motion/Second: Mr. Grassilli / Mr. Lieberman

The Motion carried by Unanimous Roll Call Vote

ITEM 9

CLOSED SESSION

Closed Session was called to order at 8:25 a.m.

A. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Government Code Section 54956.9 (Two Potential Cases)

B. LABOR NEGOTIATIONS (GOVT. CODE Section 54957.6(a))

AGENCY NEGOTIATORS: Teresa A. Herrera, SVCW Manager
Matt Anderson, SVCW Chief Financial Officer/ Admin. Manager
Jennifer Flick, SVCW Human Resources Director
Monte Hamamoto, SVCW Chief Operating Officer
Stacey Cue, IEDA
EMPLOYEE ORGANIZATION: IUOE LOCAL 30

C. CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code Section 54956.8
Property Description: 930 Governor's Bay, Redwood City, CA (APN: 095-380-21)
SVCW Negotiators: Lillian Jewell (Hamner, Jewell & Associates);
SVCW Manager, Teresa A. Herrera
Negotiating Parties: Young/Leung
Under Negotiation: Price and terms

D. CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code Section 54956.8

Property Description: 928 Governor's Bay, Redwood City, CA (APN: 095-380-220)

SVCW Negotiators: Lillian Jewell (Hamner, Jewell & Associates);

SVCW Manager, Teresa A. Herrera

Negotiating Parties: Lau/Chang

Under Negotiation: Price and terms

E. CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code Section 54956.8

Property Description: Lots B F and (Portion) Governor's Bay Drive, Redwood City, CA

SVCW Negotiators: Lillian Jewell (Hamner, Jewell & Associates);

SVCW Manager, Teresa A. Herrera

Negotiating Parties: Greenbriar Partners, a California General Partnership

Under Negotiation: Price and terms

ITEM 10

RECONVENE FROM CLOSED SESSION

Open Session reconvened at 9:00 a.m.

As to Item 9A, no reportable action was taken, and direction was given to staff and counsel. As to Item 9B no reportable action was taken. As to Items 9C, 9D and 9E, no reportable action was taken, and direction was given to staff.

ITEM 11

ADJOURN

There being no further business, the meeting adjourned at 9:10 a.m.

Minutes prepared by Teresa A. Herrera

Robert Grassilli, Secretary

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AGENDA ITEM 7B

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SVCW WARRANT REGISTER

SVCW Warrant Register dated August 2018, was scanned and a copy was emailed to Commissioners and Legal Counsel on October 1, 2018.

SVCW WARRANT REGISTER

SVCW Warrant Register dated September 2018, was scanned and a copy was emailed to Commissioners and Legal Counsel on October 1, 2018.

AGENDA ITEM 7C

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**NEW 12KV SWITCHGEAR PROJECT (CIP #9807)
AGREEMENT WITH PG&E TO INSTALL NEW 12KV PRIMARY SERVICE**

ISSUE

Approve Agreement with Pacific Gas and Electric Company for Installation of New 12kV Primary Electrical Service while Maintaining Existing Primary Electrical Service for New 12kV Switchgear Project (CIP #9807)

BACKGROUND

Since the inception of the Capital Improvement Program, emphasis has been placed on providing a reliable and robust power system at all SVCW facilities. In concert with this, ways to reduce energy demands and create power generation and savings opportunities have been staff's focus. To this end, several projects have been completed to ensure a reliable power system, many projects have lessened electrical utility demand at the treatment plant, and some projects have enabled energy production.

Electrical utility power for SVCW is currently provided from a single 12kV Pacific Gas and Electric Company (P.G.&E.) connection located near the plant entrance. This P.G.&E. power service enters the plant's main 12kV switchgear where it is metered and then distributed to all plant electrical loads. Changes to the current switchgear are needed due to upcoming projects as well as energy reliability and savings opportunities.

Facilities to be constructed under the Front of Plant Project (Receiving Lift Station and Headworks) will increase the Plant's overall electrical demand and require an increase of the plant's power distribution system. Also, the current 12kV feed from P.G.&E. poses a single point of failure for utility power. Finally, staff discussed with P.G.&E. requirements to connect onsite generation facilities (battery systems and cogeneration engines) to the utility's power grid to "export" or sell power back to P.G.&E.

To address the three energy-related issues above, on March 8, 2018, the Commission approved a contract award to Shea/Parsons joint venture (SPJV) to build the new 12kV Switchgear Project (CIP #9807). Construction has been in progress since March and the new switchgear is expected to connect to P.G.&E. primary service by mid- to late- 2019. To accomplish this, P.G.&E. needs to provide a new interconnection structure to replace the structure currently located near the Shore Dogs Park. SVCW staff submitted an application and construction documents to P.G.&E. for its approval for primary service routing and to initiate P.G.&E.'s design of their interconnection structure.

DISCUSSION

After reviewing SVCW's construction documents for the 12kV switchgear project, P.G.&E. has designed the new interconnection facility and provided an agreement to complete the construction of its new facility located at the Shore Dogs Park. Under the agreement, P.G.&E. will be responsible for construction of new 12kV primary service while maintaining the existing 12kV primary service to avoid extended power interruption to the SVCW treatment plant (it should be noted that this is a rare allowance for P.G.&E. as typically they will not provide redundant service to a single customer). The scope of work in the agreement includes engineering and administration, design, and installation of the

interconnection facility, providing cables and conductors up to its connection facility, a new meter, inspection fees and provision to maintain primary service for the facility during construction. SVCW's 12kV switchgear project contractor, SPJV, is responsible for trenching and running conduits and conductors from the new SVCW switchgear to the P.G.&E. interconnection facility located near Shore Dogs Park.

SVCW has received an agreement from P.G.&E. for installation of the new 12kV primary feed service, including a fee for the service of \$263,588.

FINANCIAL IMPACT

Work under this project will be funded from CIP project #9807, New 12kV Primary Switchgear project, which has an allocated capital budget of \$10.6 million. As of the August 2018, \$7.5 million has been encumbered and approximately \$1.7 million has been expended on design, construction and administrative tasks.

RECOMMENDATION

Move adoption of RESOLUTION APPROVING AGREEMENT WITH P.G.&E. FOR INSTALLATION OF NEW 12KV PRIMARY SERVICE WHILE MAINTAINING EXISTING 12KV PRIMARY SERVICE FOR NEW 12KV SWITCHGEAR PROJECT (CIP #9807), AUTHORIZING EXECUTION OF AGREEMENT AND AUTHORIZING MANAGER TO APPROVE CONTRACT CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT PRICE FOR SAID PROJECT – PACIFIC GAS & ELECTRIC – \$263,588

AGENDA ITEM 7D

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**PROFESSIONAL CONSTRUCTION MANAGEMENT CONSULTING SERVICES
ANNUAL GLOBAL TASK ORDER**

ISSUE

Approval of Tanner Pacific, Inc. Task Order Scope and Budget for Professional Construction Management Services for SVCW CIP and Capital Projects

BACKGROUND

In March 2016 the Commission approved a Master Services Agreement and corresponding task order with Tanner Pacific, Inc. (TPI) for construction management and contract advisory services. Subsequent to task order approval in 2016, the Commission approved a corresponding task order with TPI in August 2017. Both task orders were based on services for one-year periods. TPI provides professional services related to preconstruction consulting, construction management and inspection, including: providing input to designers on bid-ability and constructability of the projects during the design phase, providing review of cost estimates by the designers, customizing the standard contract documents for each project, keeping apprised of ongoing changes in legislation and regulations pertaining to construction and, in turn, updating SVCW's standard contract documents, ensuring construction contractors abide by the project requirements, and providing all inspection services required during construction.

DISCUSSION

SVCW has used services of outside construction management firms for its entire existence, beginning with the original treatment plant construction. Construction management is a specialty within itself and to hire staff that could fulfill the functions that TPI fills would require at least fifteen additional engineering and inspection staff. Several staff members of TPI have worked on SVCW projects for over ten years.

The 2017 task order authorization was intended to cover project preconstruction and construction services for a period of one year. The budgeted amount for that time period was \$3,308,106. Because of efficient use of resources on the part of the construction management team, the allocated budget has lasted 15 months.

During this time period, a significant portion of TPI's work efforts have gone towards pre-construction activities including planning and design, bid-ability and constructability reviews, bidding services, and project set up. This past year has been a busy time for pre-construction activities, with relatively few construction dollars spent. Several large projects (including WWTP Plant Reliability Phase 2, 12 kV Switchgear, and Food Waste Pilot) have begun construction over the last two months. TPI has also invested significant time to warranty issues, including the gas conditioning system for the cogeneration engines and other equipment startup issues and failures. Over the history of construction management involvement at SVCW, the average work effort for construction management has been 13% of construction cost; over this past year, the work effort

percentage has been higher as compared to construction dollars spent for the reasons noted above.

Over the next 18 months, it is anticipated that SVCW will complete approximately \$27 million in construction not related to the RESCU projects. SVCW and TPI have negotiated a task order for construction management services in the amount of \$3,446,000. The scope of this contract includes construction management services on all CIP and capital projects except for the RESCU projects, which were the subject of a separate task order at the time SVCW awarded the Progressive Design-Build Stage1 contracts in October and November of 2017 and will be the subject of a separate task order at the time SVCW awards the Progressive Design-Build Stage 2 contracts (anticipated to be November and December of this year).

The amount negotiated for this Task Order is approximately 13% of the estimated construction costs for the upcoming year.

Staff recommends award of Task Order to Tanner Pacific, Inc. in the amount of \$3,446,000. Two future task orders will be forthcoming in the next several months specific to construction management/quality assurance services for two progressive design build RESCU projects.

FINANCIAL IMPACT

Construction Management Services are budgeted as part of all CIP project budgets. The cost associated with TPI task order has been negotiated in the amount of \$3,446,000. This amount is within the amount incorporated for these services in the CIP project budgets and in line with both industry standards and previous SVCW contracts for similar services.

RECOMMENDATION

Move approval of TASK ORDER SCOPE AND BUDGET FOR CONSTRUCTION MANAGEMENT SERVICES IN AN AMOUNT NOT TO EXCEED \$3,446,000 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS - TANNER PACIFIC INC. - \$3,446,000

AGENDA ITEM 7E

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**TREATMENT PROCESS CAPABILITY FOR BIOLOGICAL NUTRIENT REMOVAL
FEASIBILITY STUDY
DHI WATER AND ENVIRONMENT, INC.**

ISSUE

Approval of a Purchase Order authorizing DHI Water and Environment, Inc. to perform a feasibility study analyzing SVCW's treatment process capability to remove nutrients from the waste-stream

BACKGROUND

The California Regional Water Quality Control Board issued a Nutrient Watershed Permit (Permit) in 2014, *Order Number R2-2014-0014 for Waste Discharge Requirements for Nutrients from Municipal Wastewater Discharges To San Francisco Bay*, to begin the process of regulating nitrogen and phosphorus discharges into the bay. The 2014 permit required monitoring of discharges of Ammonia, Nitrate and Phosphate in wastewater treatment plant discharges. The purpose of the data collection is to allow the San Francisco Estuary Institute to study and determine the impact of these nutrient compounds on the San Francisco Bay ecosystem. The Regional Board was on the path of developing discharge limits for nutrients based on the scientific data collected. The process was estimated to take 10-15 years to develop discharge limits.

Recently, the Regional Board changed their direction and will implement guideline nutrient concentrations in the 2019 Permit with the guideline concentrations and final limits in the 2024 Permit. SVCW has been participating in the group efforts of the Bay Area Clean Water Agencies (BACWA) to pool resources and share costs associated with the monitoring and scientific studies.

Through the BACWA efforts and plant evaluations conducted by HDR and Brown and Caldwell Engineering, the estimated cost for SVCW to treat nutrients and meet the potential future limits using conventional treatment technologies is \$100 million. SVCW's 2017 CIP Update reduced this number to \$66 million based upon some possibilities to use existing tankage instead of new construction (CIP #9400, Nutrient Removal). Whether the final cost is the lower of these numbers or somewhere in between the low and high estimates, conventional treatment to remove nutrients from municipal wastewater is extremely expensive.

The Redwood City Recycled Water Program has experienced issues with corrosion in the recycled water piping system and customer equipment. The presence of ammonia in the recycled water has been identified as the cause and Redwood City is working with Kennedy Jenks Engineering to develop a strategy to reduce the corrosivity of their recycled water. Finally, SVCW efforts towards using recycled water for potable reuse will require the removal of ammonia and nitrogen compounds from the treated water in order to meet the stringent requirements for potable reuse.

Facing hard limits for nitrogen and phosphorus in 2024, the current issues with the corrosive nature of the recycled water, and future plans for potable reuse, SVCW staff

has been researching conventional and new technologies to treat nutrients. A potentially attractive and effective technology that SVCW staff have been investigating is a technology developed in Denmark. The technology requires low energy, has been used in Denmark for many years and many installations and is a highly proven technology. It has not yet been introduced to any treatment plants in the United States, however, as staff have researched the technology, it may prove to be compatible with SVCW's current treatment plant infrastructure.

DISCUSSION

DHI Water and Environment, Inc. (DHI) from Denmark has developed this biological technology to remove nutrients in wastewater streams using low energy. DHI have developed the requirements to create the optimal environment that supports the growth of specialized bacteria that can remove ammonia and nitrate compounds simultaneously in the same basin thus requiring smaller tanks and reduced infrastructure.

DHI is based in Hørsholm, Denmark with a U.S. branch headquartered in Lakewood, Colorado. They have offices worldwide and are well known in the water and wastewater industry. SVCW would be working with their engineers in Lockwood, CO with direct support from their home offices in Denmark.

DHI has submitted a proposal to SVCW to evaluate the current treatment plant infrastructure and treatment process operation to determine if this nutrient removal technology will work for SVCW. DHI proposes to divide the work into two work packages.

The scope of work includes the following tasks:

Phase 1 – Plant Process Review

- Data Collection, Processing and Evaluation
- Site Visits and Evaluations
- Establish Baseline Performance Criteria
- Develop Initial Process Optimization Scenario
- Develop a Technical Memo Capturing Their Findings
- Facilitate a Road-Mapping Workshop

Phase 2 – Process Optimization Scenario Evaluations and Process Modelling

- Identify Viable Process Optimization Scenarios Focusing on Nutrient Removal
- Develop Control Strategies for Each Scenario Process
- Test the Scenarios Through Modeling using DHI's Model Software WEST
 - The WEST Modelling Software is designed to Simulate the Growth and Ammonia Uptake of Biological Systems
- Benchmark the Optimum Scenario
- Assess the Infrastructure and Instrumentation Requirements
- Develop the Final Technical Memo

The work product delivered through this scope will provide valuable information on the direction SVCW will take in its efforts to treat nutrients in the current waste-stream. Given

that the technology is well-proven in Europe, staff expects that the results will be positive at SVCW. If this proves true, it is possible that the cost of nutrient removal could be reduced significantly when compared to the cost of conventional treatment. The reduction in cost will derive mostly from the ability to use existing tankage as opposed to constructing new tankage (clarifiers and aeration basins) needed under conventional treatment. Additionally, the treated water from a successful process would provide extremely high-quality feed water to SVCW's recycled water for potable reuse program as well as to Redwood City's recycled water program.

DHI and SVCW staff have negotiated a not-to-exceed fee of \$101,212 for the developed scope described above.

FINANCIAL IMPACT

Work will be covered through funds currently available in SVCW's CIP program for Nutrient Removal, CIP #9400 which contains a \$66 million dollar allocated budget.

RECOMMENDATION

Move approval of SCOPE AND BUDGET FOR A FEASIBILITY STUDY AND ANALYSIS REPORT IN AN AMOUNT NOT TO EXCEED \$101,212 AND AUTHORIZE MANAGER TO APPROVE UP TO TEN PERCENT CONTINGENCY FOR ADDITIONAL WORK ON AN AS-NEEDED BASIS – DHI WATER AND ENVIRONMENT, INC – \$101,212

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AGENDA ITEM 8A

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**ENERGY STORAGE AGREEMENTS
ENGINEERING, PROCUREMENT AND CONSTRUCTION SERVICES
AND
ENERGY MANAGEMENT SERVICES**

ISSUE

Approval of Engineering, Procurement, and Construction Services Agreement and Energy Management Services Agreement with Advanced Microgrid Solutions for Energy Storage Project at WWTP.

BACKGROUND

SVCW staff continuously explores opportunities to improve the treatment plant's energy efficiency and generation, seeking energy savings opportunities to enhance overall smart energy use. One very interesting opportunity is energy storage through lithium-ion batteries. Since early 2017, staff have been in discussions with firms specializing in battery storage, looking at various options for public-private partnerships.

SVCW's electrical use charge is dictated by P.G.&E. under their industrial electric rate schedule E-20; under E-20, there are two seasonal tariffs, winter and summer, each of which is based on time-of-use. Winter season has partial-peak and off-peak periods while summer has peak, partial-peak and off-peak periods. P.G.&E. charges are made up of usage and demand charges. Usage charges are the costs associated with actual energy use in terms of kilowatt-hours. Demand charges are associated with peak and partial peak periods as well as for maximum use, irrespective of the peak periods. Demand charges are costs associated with the highest kilowatt load that occurs within a billing cycle.

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

Energy storage offers a great opportunity for cost savings in wastewater treatment plants that have varying electric demands throughout the day. In an energy storage scenario, lithium-ion batteries will be charged at times when demand is low and cost of electricity is cheaper, then the batteries will be discharged (stored energy will be used by plant equipment) when demand is higher and electricity is more expensive. Using stored energy also prevents high demand charges due to instant spikes in power demand under a scenario of sudden startup of large loads (for example, a large pump startup during peak demand period). These demand spikes typically represent a significant portion of SVCW's electricity bill.

DISCUSSION

SVCW staff worked with three reputable firms involved in energy storage – Advanced Microgrid Solutions (AMS), Green Charge and SunPower. The firms were provided actual SVCW data to analyze and size energy storage systems and provided proposals for SVCW consideration. After analyzing and comparing the proposals, SVCW staff concluded that 1) energy storage offers savings and a significant financial return to SVCW and 2) AMS offers the best value to SVCW. On April 13, 2017, staff recommended, and the Commission approved issuing a letter of intent to further explore an energy storage option with AMS.

Since April 2017, staff has been developing an energy storage project with AMS and negotiating terms. Results of negotiations have led staff to recommend entering into a public-private partnership arrangement where AMS will be responsible for engineering, procurement, construction and maintenance services of the system for a fixed annual fee of \$37,000. SVCW is authorized to enter into such arrangements under California Government Code Section 4217 which allows public entities to authorize energy services contracts without competitive bidding. A requirement under Section 4217 is public advertisement of the agency's intent; such requirement was met by SVCW with publications in the San Mateo County Times on September 26 and October 1 noting the date for the public hearing for this item (October 11, 2018 Commission meeting).

SVCW staff and AMS also identified that the State of California is offering a very attractive incentive for battery storage under the Self-Generation Incentive Program (SGIP). In 2017 SVCW submitted an application for this SGIP incentive and on January 8, 2018, SVCW was notified that an SGIP grant in the amount of \$1,022,000 was awarded for the Energy Storage Project. This grant increases the financial attractiveness of this project and staff's evaluation shows that the energy storage project could have a simple payback of five years or less.

This project also was analyzed for compliance with the California Environmental Quality Act (CEQA) and was noted in the 2017 CIP update to be Categorically Exempt from CEQA. The reason for the exemption was Cogeneration Projects at Existing Facilities pursuant to Section 15329 of Title 14 of the California Code of Regulations. (Reference CCR §15329).

This agenda item recommends approvals for two agreements with AMS; the first is an Engineering, Procurement, and Construction services agreement and the second is an Energy Management Services agreement. The first covers all work required to put the storage system in place at the wastewater treatment plant at a capital cost of \$1.6 million; the SGIP grant of \$1.022 million will be applied to this cost and the balance will be paid from SVCW's CIP project #9810, Energy Storage project. Under the Energy Management Services contract, AMS will utilize complex computer algorithms to continuously monitor and adjust system operation to optimize the savings. AMS specializes in this technology and is best fit to continuously manage the system remotely for a fixed annual fee of \$37,000. The maintenance services agreement covers a period of ten years, matching the warranty period of the batteries. A clause to extend the agreement period beyond ten

years is included. AMS guarantees a minimum annual cost savings of \$99,000 and the expected actual annual savings is \$141,000.

FINANCIAL IMPACT

Funds for this project will derive from CIP project #9810 which has an allocated budget of \$2,041,228. As of August 2018, no money has been spent. The cost of engineering, procurement and construction of the energy storage system is \$1,600,000. The SGIP grant of \$1,022,000 will be applied towards this cost. The Energy Management Services Agreement has an annual cost of \$37,000 with a guaranteed minimum savings of \$99,000 per year.

RECOMMENDATION

- i. Move adoption of RESOLUTION MAKING NECESSARY FINDINGS AND APPROVING ENGINEERING, PROCUREMENT, AND CONSTRUCTION SERVICES AGREEMENT FOR ENERGY STORAGE PROJECT (CIP #9810), AUTHORIZING EXECUTION OF AGREEMENT AND AUTHORIZING MANAGER TO APPROVE CONTRACT CHANGE ORDERS UP TO TEN PERCENT OF THE CONTRACT PRICE FOR SAID PROJECT – ADVANCED MICROGRID SOLUTIONS, Inc. – \$1,600,000
- ii. Move adoption of RESOLUTION APPROVING ENERGY MANAGEMENT SERVICES AGREEMENT FOR ENERGY STORAGE PROJECT (CIP #9810) AND AUTHORIZING EXECUTION OF AGREEMENT – ADVANCED MICROGRID SOLUTIONS, Inc.

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AGENDA ITEM 8B

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**ESTABLISHING RATES OF PAY AND CLASSIFICATIONS FOR
CONFIDENTIAL GENERAL, UNREPRESENTED GENERAL, PROFESSIONAL
AND MANAGEMENT EMPLOYEES, CHANGING TITLES FOR CHIEF FINANCIAL
OFFICER AND ASSISTANT MANAGER/CHIEF ENGINEERING OFFICER AND
APPROVING UPDATED CONSOLIDATED PAY SCHEDULE**

ISSUE

Consideration of salary adjustments for Confidential General, Unrepresented General, Professional and Management Employees and title changes for CFO/Administrative Manager to Assistant Manager/CFO and Assistant Manager/Chief Engineering Officer to Authority Engineer.

BACKGROUND

The Confidential General Employee category includes the positions of Administrative Assistant, Accounting Technician, Information System Analyst, Information System Technician, Administrative Clerk, Office Assistant and Accountant. As these positions work with and have access to personnel, payroll and other confidential documents they are excluded from the bargaining unit. Salaries and benefits are set by resolution.

Professional category employees include the positions of Senior CIP Manager, CIP Manager, Business Analyst, Financial Analyst, Senior Engineer, Associate Engineer and Senior Information System Analyst. Management employees are the SVCW Manager, Assistant Manager/Chief Financial Officer, Chief Operating Officer, Administrative Services Director, Authority Engineer, Engineering Director, Materials Services Supervisor, Operations Director, Maintenance Director, Operations Supervisor, Maintenance Supervisor, Planner/Scheduler Supervisor, Laboratory Director, Environmental Services Director, Information Systems Director, Health & Safety Director, Human Resources Director, Accounting Supervisor, and Executive Assistant to the Manager. These positions are also unrepresented, and salaries and benefits are set by resolution.

DISCUSSION

Historically the Commission has approved the same Cost of Living Adjustment (COLA) for all unrepresented positions based upon the agreement with the International Union of Operating Engineers - Local 39 to increase wages. The proposed and agreed to COLA increase for the bargaining unit is three and a half percent (3.5%) effective July 1, 2018. The SVCW Manager recommends a COLA increase for unrepresented employees of three and a half percent effective retroactively to the first pay period of Fiscal Year 2018-2019.

The position of CFO/Administrative Manager is being changed to Assistant Manager/CFO; this position is currently filled by Matthew Anderson. The Manager has high confidence in Matt to continue to fulfill the responsibilities of this position. The position of Assistant Manager/Chief Engineering Officer is being changed to Authority Engineer and will be filled by Kimberley Hackett, the current Engineering Director. Kim

will take on the roles and responsibilities previously held by Teresa Herrera and is well suited for and deserving of this promotion.

RECOMMENDATION

Move adoption of:

- i. RESOLUTION ESTABLISHING RATES OF PAY AND RELATED COMPENSATION PROVISIONS FOR MANAGEMENT EMPLOYEES OF SILICON VALLEY CLEAN WATER AND RESCINDING AND RESTATING CERTAIN PROVISIONS OF RESOLUTION NO. SVCW 18-42 AND RESCINDING ANY AND ALL OTHER RESOLUTIONS OR PORTIONS THEREOF IN CONFLICT HEREWITH
- ii. RESOLUTION ESTABLISHING RATES OF PAY AND RELATED COMPENSATION PROVISIONS FOR CONFIDENTIAL GENERAL EMPLOYEES OF SILICON VALLEY CLEAN WATER AND RESCINDING RESOLUTION NO. SVCW 18-43 AND ANY AND ALL OTHER RESOLUTIONS OR PROVISIONS THEREOF IN CONFLICT HEREWITH
- iii. RESOLUTION ESTABLISHING RATES OF PAY AND RELATED COMPENSATION FOR UNREPRESENTED GENERAL EMPLOYEE POSITIONS OF ENGINEERING INTERN, LABORATORY ASSISTANT AND GENERAL INTERN AND RESCINDING RESOLUTION NO. SVCW 18- 44 AND ANY AND ALL OTHER RESOLUTIONS OR PORTIONS THEREOF IN CONFLICT HEREWITH
- iv. RESOLUTION ESTABLISHING RATES OF PAY AND RELATED COMPENSATION PROVISIONS FOR PROFESSIONAL EMPLOYEES OF SILICON VALLEY CLEAN WATER AND RESCINDING RESOLUTION NO. SVCW 18-45 AND RESCINDING ANY AND ALL OTHER RESOLUTIONS OR PORTIONS THEREOF IN CONFLICT HEREWITH
- v. RESOLUTION AMENDING SECTION 6 OF RESOLUTION NO. SVCW 77- 6, THE SVCW PERSONNEL RESOLUTION, RELATING TO CLASSIFICATION OF POSITIONS AND RESCINDING PARAGRAPH 1 OF RESOLUTION NO. SVCW 18-46 AND ANY AND ALL OTHER RESOLUTIONS OR PROVISIONS THEREOF IN CONFLICT HEREWITH
- vi. RESOLUTION APPROVING AND ADOPTING CONSOLIDATED PAY SCHEDULE FOR ALL REPRESENTED AND UNREPRESENTED EMPLOYEES OF SILICON VALLEY CLEAN WATER FOR FISCAL YEAR 2018-2019