

COASTSIDE COUNTY WATER DISTRICT

766 MAIN STREET

HALF MOON BAY, CA 94019

REGULAR TUESDAY, NOVEMBER 13, 2018

MEETING OF THE BOARD OF DIRECTORS

AND

THE ADJOURNED OCTOBER 9, 2018 REGULAR

MEETING OF THE BOARD OF DIRECTORS

(Adjourned due to a lack of quorum)

MEETING TIME: 7:00 P.M.

AGENDA

The Coastside County Water District (CCWD) does not discriminate against persons with disabilities. Upon request, the agenda and agenda packet materials can be provided in a format to accommodate special needs. If you require a copy of the agenda or related materials in an alternative format to accommodate a disability, or if you wish to attend this public meeting and will require special assistance or other special equipment, please call the District at (650) 726-4405 in advance and we will make every reasonable attempt to provide such an accommodation.

All public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the CCWD District Office, located at 766 Main Street, Half Moon Bay, CA at the same time that the public records are distributed or made available to the legislative body.

This agenda and accompanying materials can be viewed on Coastside County Water District's website located at: www.coastsidewater.org.

The Board of the Coastside County Water District reserves the right to take action on any item included on this agenda.

- 1) ROLL CALL**

- 2) PLEDGE OF ALLEGIANCE**

3) PUBLIC COMMENT

At this time members of the public may address the Board of Directors on issues not listed on the agenda which are within the purview of the Coastside County Water District. Comments on matters that are listed on the agenda may be made at the time the Board is considering each item. Each speaker is allowed a maximum of three (3) minutes and must complete and submit a speaker slip. The President of the Board will recognize each speaker, at which time the speaker should proceed to the podium, give their name and address and provide their comments to the Board.

4) CONSENT CALENDAR

The following matters before the Board of Directors are recommended for action as stated by the General Manager. All matters listed hereunder constitute a Consent Calendar, are considered as routine by the Board of Directors, and will be acted upon by a single vote of the Board. There will be no separate discussion of these items unless a member of the Board so requests, in which event the matter shall be removed from the Consent Calendar and considered as a separate item.

- A. Approval of disbursements for the month ending September 30, 2018:
Claims: \$1,063,785.24; Payroll: \$105,906.79 for a total of \$1,169,692.03
([attachment](#))
 - *September Monthly Financial Claims reviewed and approved by President Feldman*
- B. Approval of disbursements for the month ending October 31, 2018:
Claims: \$812,625.27; Payroll: \$106,322.13 for a total of \$918,947.40 ([attachment](#))
 - *October Monthly Financial Claims reviewed and approved by Director Glassberg*
- C. Acceptance of Financial Reports (September and October) ([attachment](#))
- D. Approval of Minutes of September 11, 2018 Regular Board of Directors Meeting ([attachment](#))
- E. Installed Water Connection Capacity and Water Meters Report (September & October) ([attachment](#))
- F. Total CCWD Production Reports (September and October) ([attachment](#))
- G. CCWD Monthly Sales by Category Report (September and October) ([attachment](#))
- H. Monthly Planned Plant or Tank Discharge and New Water Line Flushing Report (September and October) ([attachment](#))
- I. Monthly Rainfall Reports (September and October) ([attachment](#))
- J. SFPUC Hydrological Reports - August and September, 2018 ([attachment](#))
- K. Notice of Completion - 2-inch Pipeline Downtown Pipeline Replacement Project ([attachment](#))
- L. Notice of Completion - Denniston Reservoir Maintenance Dredging Project - 2018 ([attachment](#))

5) MEETINGS ATTENDED / DIRECTOR COMMENTS

6) GENERAL BUSINESS

- A. Construction of Highway One South 2-Inch Main Emergency Replacement ([attachment](#))

- B. Agreement with Pakpour Consulting Group to Provide Plans and Specifications for the Alves Tank Improvements ([attachment](#))
- C. Approval to Purchase PAX Water Technologies Tank Mixers ([attachment](#))
- D. Resolution Adopting A Surplus Property Policy for the Coastside County Water District ([attachment](#))
- E. Quarterly Financial Review ([attachment](#))

7) **MONTHLY INFORMATIONAL REPORTS**

- A. Assistant General Manager's Report ([attachment](#))
- B. Superintendent of Operations Report - for months of September and October ([attachment](#))
- C. Water Resources Informational Report ([attachment](#))

8) **DIRECTOR AGENDA ITEMS - FUTURE BOARD AND COMMITTEE MEETINGS AND REQUESTS FOR FUTURE BOARD MEETINGS AGENDA ITEMS**

9) **ADJOURNMENT**

**COASTSIDE COUNTY WATER DISTRICT
CLAIMS FOR SEPTEMBER 2018**

CHECKS				
<u>CHECK DATE</u>	<u>CHECK NO.</u>	<u>VENDOR</u>		<u>AMOUNT</u>
09/07/2018	25826	AEGIS ENTERPRISES, INC.	\$	1,587.00
09/07/2018	25827	HEALTH BENEFITS ACWA-JPIA	\$	45,009.60
09/07/2018	25828	CALIFORNIA C.A.D. SOLUTIONS, INC	\$	3,600.00
09/07/2018	25829	GLADYS ANN CALLAN, TRUSTEE	\$	181.58
09/07/2018	25830	GLADYS ANN CALLAN, TRUSTEE	\$	181.58
09/07/2018	25831	HELEN J. CAREY	\$	290.62
09/07/2018	25832	BRYON & ADELE CIBART	\$	230.93
09/07/2018	25833	CLARK PEST CONTROL OF STOCKTON, INC.	\$	128.00
09/07/2018	25834	COMCAST	\$	200.30
09/07/2018	25835	RECORDER'S OFFICE	\$	101.00
09/07/2018	25836	JAMES COZZOLINO, TRUSTEE	\$	200.00
09/07/2018	25837	JAMES DERBIN	\$	2,600.00
09/07/2018	25838	ROBERT ENYEDI	\$	279.95
09/07/2018	25839	FEDAK & BROWN LLP	\$	1,100.00
09/07/2018	25840	FIRST NATIONAL BANK	\$	3,798.95
09/07/2018	25841	HASSETT HARDWARE	\$	9,772.16
09/07/2018	25842	HUE & CRY, INC.	\$	24.00
09/07/2018	25843	WAYNE & JILL IMPINK	\$	279.95
09/07/2018	25844	MASS MUTUAL FINANCIAL GROUP	\$	1,974.65
09/07/2018	25845	DENIS PARNOVSKIY	\$	279.95
09/07/2018	25846	REPUBLIC SERVICES	\$	523.81
09/07/2018	25847	RICOH USA INC	\$	503.07
09/07/2018	25848	STANDARD INSURANCE COMPANY	\$	567.77
09/07/2018	25849	NANCY D. MASSA	\$	28,013.00
09/07/2018	25850	RYAN H. STOLL	\$	146.72
09/07/2018	25851	UNITED STATES POSTAL SERV.	\$	600.00
09/07/2018	25852	VALIC	\$	4,105.00
09/07/2018	25853	VERIZON WIRELESS	\$	1,466.20
09/07/2018	25854	DAVID D. WELCH	\$	287.62
09/07/2018	25855	RAYMOND WINCH	\$	80.05
09/11/2018	25856	CANYON SPRINGS ENTERPRISES	\$	20,000.00
09/11/2018	25857	PACIFIC GAS & ELECTRIC CO.	\$	51,305.03
09/11/2018	25858	SAN FRANCISCO WATER DEPT.	\$	369,249.58
09/11/2018	25859	LISA SULZINGER	\$	209.94
09/11/2018	25860	WATER QUALITY INC.	\$	700.00
09/11/2018	25861	WATER QUALITY INC.	\$	700.00
09/11/2018	25862	JUAN CARLOS SALAZAR	\$	1,120.00
09/17/2018	25863	ANDREINI BROS. INC.	\$	5,336.81
09/19/2018	25864	CHASE	\$	318,974.12
09/26/2018	25865	ADP, INC.	\$	984.15
09/26/2018	25866	FRANK YAMELLO	\$	235.00
09/26/2018	25867	ANALYTICAL ENVIRONMENTAL SERVICES	\$	6,422.42
09/26/2018	25868	ANDREINI BROS. INC.	\$	4,645.23
09/26/2018	25869	AT&T	\$	3,986.97
09/26/2018	25870	AT&T LONG DISTANCE	\$	552.02
09/26/2018	25871	AZTEC GARDENS, INC.	\$	218.00
09/26/2018	25872	BADGER METER, INC.	\$	27.00

09/26/2018	25873	BALANCE HYDROLOGICS, INC	\$	3,324.86
09/26/2018	25874	BARTKIEWICZ, KRONICK & SHANAHAN	\$	82.50
09/26/2018	25875	BAY ALARM COMPANY	\$	382.50
09/26/2018	25876	BFI OF CALIFORNIA, INC.	\$	2,265.27
09/26/2018	25877	BIG CREEK LUMBER	\$	72.48
09/26/2018	25878	BIG ED'S CRANE SERVICE, INC	\$	1,485.00
09/26/2018	25879	INSTITUTE FOR ENVIRONMENTAL HEALTH, INC.	\$	760.00
09/26/2018	25880	CATHLEEN BRENNAN	\$	193.19
09/26/2018	25881	BSK ASSOCIATES	\$	1,220.00
09/26/2018	25882	CALCON SYSTEMS, INC.	\$	6,136.78
09/26/2018	25883	CHEVRON/TEXACO UNIVERSAL CARD	\$	2,171.80
09/26/2018	25884	CHEMTRADE CHEMICALS US LLC	\$	6,780.40
09/26/2018	25885	CLARK PEST CONTROL OF STOCKTON, INC.	\$	128.00
09/26/2018	25886	PETTY CASH	\$	62.29
09/26/2018	25887	DAVEY'S SMOG SHOP, INC.	\$	267.00
09/26/2018	25888	GREG LANGFORD	\$	550.00
09/26/2018	25889	ELECSYS INTERNATIONAL CORP	\$	250.00
09/26/2018	25890	GRAINGER, INC.	\$	1,776.31
09/26/2018	25891	GRISWOLD INDUSTRIES	\$	156.60
09/26/2018	25892	HMB BLDG. & GARDEN INC.	\$	1,331.76
09/26/2018	25893	HALF MOON BAY REVIEW	\$	35.75
09/26/2018	25894	HANSONBRIDGETT. LLP	\$	4,965.00
09/26/2018	25895	MICHELLE HOGG	\$	200.00
09/26/2018	25896	IRON MOUNTAIN	\$	613.51
09/26/2018	25897	IRVINE CONSULTING SERVICES, INC.	\$	3,287.20
09/26/2018	25898	GLENNA LOMBARDI	\$	118.00
09/26/2018	25899	MASS MUTUAL FINANCIAL GROUP	\$	1,974.65
09/26/2018	25900	MISSION UNIFORM SERVICES INC.	\$	204.67
09/26/2018	25901	MONTEREY COUNTY LAB	\$	1,710.00
09/26/2018	25902	NALCO COMPANY	\$	3,778.32
09/26/2018	25903	NORTHSTAR CHEMICAL	\$	2,319.00
09/26/2018	25904	OCT WATER QUALITY ACADEMY	\$	600.00
09/26/2018	25905	OFFICE DEPOT	\$	1,205.49
09/26/2018	25906	ONTRAC	\$	210.32
09/26/2018	25907	PACIFICA COMMUNITY TV	\$	250.00
09/26/2018	25908	PAKPOUR CONSULTING GROUP	\$	3,366.56
09/26/2018	25909	PAULO'S AUTO CARE	\$	239.38
09/26/2018	25910	PITNEY BOWES	\$	211.91
09/26/2018	25911	FERGUSON ENTERPRISES, INC.	\$	80.19
09/26/2018	25912	PRINCETON WELDING , INC.	\$	1,727.69
09/26/2018	25913	RAY A MORGAN COMPANY INC.	\$	399.16
09/26/2018	25914	RICOH USA INC	\$	503.07
09/26/2018	25915	ROBERTS & BRUNE CO.	\$	10,397.58
09/26/2018	25916	ROGUE WEB WORKS, LLC	\$	275.80
09/26/2018	25917	ERIN ROMER	\$	300.00
09/26/2018	25918	SAN MATEO CTY PUBLIC HEALTH LAB	\$	918.00
09/26/2018	25919	STRAWFLOWER ELECTRONICS	\$	15.12
09/26/2018	25920	TAP PLASTICS, INC	\$	246.67
09/26/2018	25921	TEAMSTERS LOCAL UNION #856	\$	1,145.00
09/26/2018	25922	JAMES TETER	\$	5,677.03
09/26/2018	25923	TPX COMMUNICATIONS	\$	1,821.07
09/26/2018	25924	TYLER TECHNOLOGIES, INC	\$	687.50

09/26/2018	25925	UGSI CHEMICAL FEED, INC.	\$	354.85
09/26/2018	25926	UNIVAR USA INC	\$	2,256.13
09/26/2018	25927	UPS STORE	\$	758.26
09/26/2018	25928	VALIC	\$	4,105.00
09/26/2018	25929	VERIZON WIRELESS	\$	1,240.72
09/26/2018	25930	WATER QUALITY INC.	\$	500.00
09/26/2018	25931	WATER RESEARCH FOUNDATION	\$	1,117.00
09/26/2018	25932	WEST YOST ASSOCIATES, INC	\$	18,460.50
09/26/2018	25933	SARAH BJORKMAN	\$	14.72
09/26/2018	25934	AXOZEN LLC	\$	23.71
09/26/2018	25935	PACIFIC COAST PLACE	\$	63.16
09/26/2018	25936	MANOLO FERNANDEZ	\$	165.18
				<hr/>
SUBTOTAL CLAIMS FOR MONTH			\$	1,000,719.34

WIRE PAYMENTS

<u>MONTH</u>	<u>VENDOR</u>	<u>AMOUNT</u>
09/04/2018	DFT0000158 CalPERS FISCAL SERVICES DIVISION	\$ 31,045.96
09/04/2018	DFT0000159 CalPERS FISCAL SERVICES DIVISION	\$ 134.84
09/04/2018	DFT0000160 CalPERS FISCAL SERVICES DIVISION	\$ 53.52
09/06/2018	DFT0000161 PUB. EMP. RETIRE SYSTEM	\$ 13,516.21
09/19/2018	DFT0000162 PUB. EMP. RETIRE SYSTEM	\$ 13,261.96
9/30/2018	BANK AND CREDIT CARD FEES	\$ 5,053.41
SUBTOTAL WIRE PAYMENTS FOR MONTH		<hr/> \$ 63,065.90

TOTAL CLAIMS FOR THE MONTH

\$ 1,063,785.24

**COASTSIDE COUNTY WATER DISTRICT
CLAIMS FOR OCTOBER 2018**

CHECKS				
<u>CHECK DATE</u>	<u>CHECK NO.</u>	<u>VENDOR</u>		<u>AMOUNT</u>
10/04/2018	25937	HEALTH BENEFITS ACWA-JPIA	\$	43,444.48
10/04/2018	25938	ACWA/JPIA	\$	59,136.00
10/04/2018	25939	ASSOC. CALIF. WATER AGENCY	\$	12,989.59
10/04/2018	25940	COMCAST	\$	208.64
10/04/2018	25941	DATAPROSE, LLC	\$	3,962.41
10/04/2018	25942	JAMES DERBIN	\$	1,400.00
10/04/2018	25943	DAVID L. SKROMME - DBA FASTSIGNS	\$	524.29
10/04/2018	25944	FIRST NATIONAL BANK	\$	5,528.76
10/04/2018	25945	HALF MOON BAY REVIEW	\$	1,170.00
10/04/2018	25946	HASSETT HARDWARE	\$	2,123.25
10/04/2018	25947	HUE & CRY, INC.	\$	24.00
10/04/2018	25948	MASS MUTUAL FINANCIAL GROUP	\$	1,974.65
10/04/2018	25949	REPUBLIC SERVICES	\$	523.81
10/04/2018	25950	SM CTY ENVIRONMENTAL HEALTH	\$	2,035.00
10/04/2018	25951	STANDARD INSURANCE COMPANY	\$	569.68
10/04/2018	25952	VALIC	\$	4,055.00
10/12/2018	25953	CITY OF HALF MOON BAY	\$	451.00
10/19/2018	25954	ADP, INC.	\$	396.75
10/19/2018	25955	FRANK YAMELLO	\$	235.00
10/19/2018	25956	PATRIOT SENSORS AND CONTROLS CORP	\$	3,220.09
10/19/2018	25957	ANDREINI BROS. INC.	\$	45,382.80
10/19/2018	25958	AT&T	\$	4,024.66
10/19/2018	25959	AT&T LONG DISTANCE	\$	678.05
10/19/2018	25960	AZEVEDO FEED INC.	\$	617.70
10/19/2018	25961	AZTEC GARDENS, INC.	\$	218.00
10/19/2018	25962	BADGER METER, INC.	\$	27.00
10/19/2018	25963	BARTKIEWICZ, KRONICK & SHANAHAN	\$	82.50
10/19/2018	25964	BAY AREA WATER SUPPLY &	\$	7,925.00
10/19/2018	25965	BFI OF CALIFORNIA, INC.	\$	1,952.23
10/19/2018	25966	BIG CREEK LUMBER	\$	40.89
10/19/2018	25967	BSK ASSOCIATES	\$	700.00
10/19/2018	25968	CALCON SYSTEMS, INC.	\$	7,283.13
10/19/2018	25969	CEL ANALYTICAL INC.	\$	2,209.00
10/19/2018	25970	CHEMTRADE CHEMICALS US LLC	\$	2,177.12
10/19/2018	25971	CITY OF HALF MOON BAY	\$	3,750.00
10/19/2018	25972	PETTY CASH	\$	130.56
10/19/2018	25973	COUNTY OF SAN MATEO	\$	1,220.00
10/19/2018	25974	JAMES COZZOLINO, TRUSTEE	\$	200.00
10/19/2018	25975	DAL PORTO ELECTRIC	\$	1,723.27
10/19/2018	25976	THE EDCCO GROUP, INC.	\$	3,175.00
10/19/2018	25977	ELECSYS INTERNATIONAL CORP	\$	250.00
10/19/2018	25978	FIRERESQ, INC	\$	213.16
10/19/2018	25979	GOLDEN STATE FLOW MEASUREMENT	\$	9,970.27
10/19/2018	25980	GRAINGER, INC.	\$	1,002.29

10/19/2018	25981	HMB BLDG. & GARDEN INC.	\$	70.84
10/19/2018	25982	JOHN HERNANDEZ	\$	100.00
10/19/2018	25983	HERC RENTALS, INC.	\$	1,920.84
10/19/2018	25984	IRON MOUNTAIN	\$	528.33
10/19/2018	25985	IRVINE CONSULTING SERVICES, INC.	\$	3,038.20
10/19/2018	25986	KINGS MOUNTAIN ARBOR HEALTH & SAFETY	\$	11,700.00
10/19/2018	25987	GLENNA LOMBARDI	\$	118.00
10/19/2018	25988	GLENNA LOMBARDI	\$	118.00
10/19/2018	25989	MASS MUTUAL FINANCIAL GROUP	\$	1,974.65
10/19/2018	25990	MISSION UNIFORM SERVICES INC.	\$	247.84
10/19/2018	25991	MONTEREY COUNTY LAB	\$	4,178.00
10/19/2018	25992	NATIONAL PEN CO. LLC	\$	1,345.88
10/19/2018	25993	NORTHSTAR CHEMICAL	\$	2,570.00
10/19/2018	25994	OFFICE DEPOT	\$	940.21
10/19/2018	25995	ONTRAC	\$	251.70
10/19/2018	25996	PACIFIC GAS & ELECTRIC CO.	\$	47,623.64
10/19/2018	25997	PACIFICA COMMUNITY TV	\$	250.00
10/19/2018	25998	PAKPOUR CONSULTING GROUP	\$	1,044.75
10/19/2018	25999	PAPE MACHINERY EXCHANGE	\$	318.05
10/19/2018	26000	PITNEY BOWES	\$	211.91
10/19/2018	26001	PUMP REPAIR SERVICE CO. INC.	\$	10,753.25
10/19/2018	26002	RAY A MORGAN COMPANY INC.	\$	1,023.98
10/19/2018	26003	MULTI SERVICE TECHNOLOGY SOLUTIONS, INC.	\$	296.31
10/19/2018	26004	ROBERTS & BRUNE CO.	\$	8,049.89
10/19/2018	26005	ROGUE WEB WORKS, LLC	\$	287.00
10/19/2018	26006	SAN FRANCISCO WATER DEPT.	\$	355,352.56
10/19/2018	26007	SAN MATEO CTY TAX COLLECTOR	\$	934.38
10/19/2018	26008	SOUTHERN COUNTIES OIL CO.	\$	1,437.93
10/19/2018	26009	SERVICE PRESS	\$	1,852.98
10/19/2018	26010	STRAWFLOWER ELECTRONICS	\$	11.85
10/19/2018	26011	TEAMSTERS LOCAL UNION #856	\$	1,234.00
10/19/2018	26012	TPX COMMUNICATIONS	\$	1,878.38
10/19/2018	26013	TYLER TECHNOLOGIES, INC	\$	1,492.50
10/19/2018	26014	UNIVAR USA INC	\$	1,926.13
10/19/2018	26015	UNITED PARCEL SERVICE INC.	\$	32.47
10/19/2018	26016	UPS STORE	\$	307.88
10/19/2018	26017	VALIC	\$	4,155.00
10/19/2018	26018	BOSCO OIL COMPANY	\$	2,394.33
10/19/2018	26019	WEST YOST ASSOCIATES, INC	\$	2,280.00
10/19/2018	26020	JUAN CARLOS SALAZAR	\$	1,400.00
10/19/2018	26021	RAYMOND WINCH	\$	80.05
10/25/2018	26022	ACCURATE AIR ENGINEERING, INC	\$	1,918.02
10/25/2018	26023	ADP, INC.	\$	287.80
10/25/2018	26024	ANALYTICAL ENVIRONMENTAL SERVICES	\$	3,681.51
10/25/2018	26025	ANDREINI BROS. INC.	\$	1,635.44
10/25/2018	26026	BAY AREA WATER SUPPLY &	\$	2,500.00
10/25/2018	26027	BAY ALARM COMPANY	\$	559.59
10/25/2018	26028	CATHLEEN BRENNAN	\$	55.00
10/25/2018	26029	BSK ASSOCIATES	\$	350.00

10/25/2018	26030	CEL ANALYTICAL INC.	\$	528.00
10/25/2018	26031	CLARK PEST CONTROL OF STOCKTON, INC.	\$	128.00
10/25/2018	26032	DATAPROSE, LLC	\$	196.44
10/25/2018	26033	FIRERESQ, INC	\$	115.26
10/25/2018	26034	GRAINGER, INC.	\$	60.03
10/25/2018	26035	HMB BLDG. & GARDEN INC.	\$	139.91
10/25/2018	26036	HANSONBRIDGETT. LLP	\$	2,647.50
10/25/2018	26037	TRAVIS MENEZES	\$	101.56
10/25/2018	26038	MISSION UNIFORM SERVICES INC.	\$	123.92
10/25/2018	26039	ONTRAC	\$	80.54
10/25/2018	26040	PAULO'S AUTO CARE	\$	683.02
10/25/2018	26041	RICOH USA INC	\$	503.07
10/25/2018	26042	ROBERTS & BRUNE CO.	\$	9,456.74
10/25/2018	26043	DAVID SCHORR	\$	100.00
10/25/2018	26044	JAMES TETER	\$	3,621.72
10/25/2018	26045	UPS STORE	\$	46.14
10/25/2018	26046	VERIZON WIRELESS	\$	1,590.22
10/25/2018	26047	JOANNE WHELEN	\$	805.85
10/25/2018	26048	WIENHOFF & ASSOCIATES, INC.	\$	140.00
10/25/2018	26049	CHRIS THOMAS	\$	56.15
10/25/2018	26050	WESTON JOHNSON	\$	65.21
10/25/2018	26051	JACK VAN ETEN	\$	42.77
10/25/2018	26052	BRECKEN RIDGE	\$	66.80
10/25/2018	26053	ANDREW DUNLAP	\$	64.07
10/25/2018	26054	JIM GREENWAY	\$	59.52
10/25/2018	26055	JAMIE ALFARO	\$	27.89
10/25/2018	26056	JAMIE ALFARO	\$	211.68
10/25/2018	26057	KRISTI VAN ETEN	\$	11.42
10/25/2018	26058	AVILA ELECTRIC	\$	342.85
10/25/2018	26059	TELFER PAVEMENT TECHNOLOGIES LLC	\$	794.21
10/25/2018	26060	MATTHEW CROUCH	\$	27.26
10/25/2018	26061	JEANNETTE HULL	\$	61.34
			SUBTOTAL CLAIMS FOR MONTH	\$ 748,543.19

WIRE PAYMENTS

<u>MONTH</u>	<u>VENDOR</u>	<u>AMOUNT</u>	
10/01/2018	DFT0000164 CaIPERS FISCAL SERVICES DIVISION	\$ 53.52	
10/01/2018	DFT0000165 CaIPERS FISCAL SERVICES DIVISION	\$ 134.84	
10/01/2018	DFT0000166 CaIPERS FISCAL SERVICES DIVISION	\$ 31,045.96	
10/10/2018	DFT0000168 PUB. EMP. RETIRE SYSTEM	\$ 13,224.19	
10/18/2018	DFT0000171 PUB. EMP. RETIRE SYSTEM	\$ 13,364.61	
10/31/2018	BANK & CREDIT CARD FEES	\$ 6,258.96	
		SUBTOTAL WIRE PAYMENTS FOR MONTH	\$ 64,082.08

TOTAL CLAIMS FOR THE MONTH	\$ 812,625.27
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Coastside County Water District

Monthly Budget Report

Account Summary

For Fiscal: 2018-2019 Period Ending: 09/30/2018

	September Budget	September Activity	Variance Favorable (Unfavorable)	Percent Variance	YTD Budget	YTD Activity	Variance Favorable (Unfavorable)	Percent Variance	Total Budget	
Revenue										
RevType: 1 - Operating										
1-4120-00	Water Revenue	1,032,690.00	1,227,748.25	195,058.25	18.89 %	3,533,534.00	3,834,462.34	300,928.34	8.52 %	11,710,500.00
	Total RevType: 1 - Operating:	1,032,690.00	1,227,748.25	195,058.25	18.89 %	3,533,534.00	3,834,462.34	300,928.34	8.52 %	11,710,500.00
RevType: 2 - Non-Operating										
1-4170-00	Water Taken From Hydrants	4,166.00	8,146.82	3,980.82	95.55 %	12,500.00	22,880.45	10,380.45	83.04 %	50,000.00
1-4180-00	Late Notice - 10% Penalty	5,000.00	4,675.01	-324.99	-6.50 %	15,000.00	9,625.72	-5,374.28	-35.83 %	60,000.00
1-4230-00	Service Connections	833.00	1,031.85	198.85	23.87 %	2,500.00	3,231.16	731.16	29.25 %	10,000.00
1-4920-00	Interest Earned	519.00	1,500.80	981.80	189.17 %	1,559.00	1,501.63	-57.37	-3.68 %	6,236.00
1-4930-00	Tax Apportionments/County Checks	0.00	0.00	0.00	0.00 %	0.00	1,602.90	1,602.90	0.00 %	725,000.00
1-4950-00	Miscellaneous Income	2,084.00	-4,686.20	-6,770.20	-324.87 %	6,250.00	0.00	-6,250.00	-100.00 %	25,000.00
1-4955-00	Cell Site Lease Income	13,750.00	13,425.50	-324.50	-2.36 %	41,250.00	39,894.41	-1,355.59	-3.29 %	165,000.00
1-4965-00	ERAF Refund - County Taxes	0.00	0.00	0.00	0.00 %	0.00	0.00	0.00	0.00 %	325,000.00
	Total RevType: 2 - Non-Operating:	26,352.00	24,093.78	-2,258.22	-8.57 %	79,059.00	78,736.27	-322.73	-0.41 %	1,366,236.00
	Total Revenue:	1,059,042.00	1,251,842.03	192,800.03	18.21 %	3,612,593.00	3,913,198.61	300,605.61	8.32 %	13,076,736.00
Expense										
ExpType: 1 - Operating										
1-5130-00	Water Purchased	175,000.00	362,075.58	-187,075.58	-106.90 %	675,000.00	1,051,879.39	-376,879.39	-55.83 %	1,900,998.00
1-5230-00	Nunes T P Pump Expense	3,558.00	4,756.16	-1,198.16	-33.68 %	10,674.00	13,115.32	-2,441.32	-22.87 %	42,697.00
1-5231-00	CSP Pump Station Pump Expense	31,031.00	57,317.89	-26,286.89	-84.71 %	119,689.00	111,943.52	7,745.48	6.47 %	337,080.00
1-5232-00	Other Trans. & Dist Pump Expense	2,247.00	1,721.33	525.67	23.39 %	6,741.00	6,567.03	173.97	2.58 %	26,965.00
1-5233-00	Pilarcitos Canyon Pump Expense	250.00	286.31	-36.31	-14.52 %	750.00	681.57	68.43	9.12 %	39,248.00
1-5234-00	Denniston T P Pump Expense	10,834.00	3,510.02	7,323.98	67.60 %	32,500.00	18,871.25	13,628.75	41.93 %	130,000.00
1-5242-00	CSP Pump Station Operations	891.00	1,343.20	-452.20	-50.75 %	2,675.00	3,078.28	-403.28	-15.08 %	10,700.00
1-5243-00	CSP Pump Station Maintenance	3,083.00	429.84	2,653.16	86.06 %	9,250.00	3,458.26	5,791.74	62.61 %	37,000.00
1-5246-00	Nunes T P Operations - General	6,488.00	14,806.78	-8,318.78	-128.22 %	19,462.00	29,714.49	-10,252.49	-52.68 %	77,850.00
1-5247-00	Nunes T P Maintenance	10,209.00	-3,035.73	13,244.73	129.74 %	30,625.00	11,244.55	19,380.45	63.28 %	122,500.00
1-5248-00	Denniston T P Operations-General	3,916.00	-1,585.68	5,501.68	140.49 %	11,750.00	5,324.18	6,425.82	54.69 %	47,000.00
1-5249-00	Denniston T.P. Maintenance	8,488.00	8,250.24	237.76	2.80 %	25,463.00	18,523.98	6,939.02	27.25 %	101,850.00
1-5250-00	Laboratory Expenses	5,954.00	6,885.89	-931.89	-15.65 %	17,862.00	16,955.99	906.01	5.07 %	71,450.00
1-5260-00	Maintenance - General	24,308.00	31,501.16	-7,193.16	-29.59 %	72,925.00	71,788.26	1,136.74	1.56 %	291,700.00
1-5261-00	Maintenance - Well Fields	3,334.00	0.00	3,334.00	100.00 %	10,000.00	0.00	10,000.00	100.00 %	40,000.00
1-5263-00	Uniforms	0.00	8,127.76	-8,127.76	0.00 %	8,000.00	8,127.76	-127.76	-1.60 %	12,500.00
1-5318-00	Studies/Surveys/Consulting	10,000.00	15,425.00	-5,425.00	-54.25 %	30,000.00	22,425.00	7,575.00	25.25 %	160,000.00
1-5321-00	Water Resources	2,100.00	1,457.63	642.37	30.59 %	6,300.00	2,397.72	3,902.28	61.94 %	25,200.00

Monthly Budget Report

For Fiscal: 2018-2019 Period Ending: 09/30/2018

	September Budget	September Activity	Variance Favorable (Unfavorable)	Percent Variance	YTD Budget	YTD Activity	Variance Favorable (Unfavorable)	Percent Variance	Total Budget
1-5322-00 Community Outreach	3,000.00	846.27	2,153.73	71.79 %	7,000.00	1,096.27	5,903.73	84.34 %	54,700.00
1-5381-00 Legal	8,334.00	3,498.00	4,836.00	58.03 %	25,000.00	12,335.50	12,664.50	50.66 %	100,000.00
1-5382-00 Engineering	5,000.00	2,480.00	2,520.00	50.40 %	15,000.00	6,440.00	8,560.00	57.07 %	60,000.00
1-5383-00 Financial Services	1,000.00	1,100.00	-100.00	-10.00 %	5,000.00	2,410.00	2,590.00	51.80 %	20,000.00
1-5384-00 Computer Services	13,000.00	9,436.61	3,563.39	27.41 %	39,000.00	43,798.30	-4,798.30	-12.30 %	163,600.00
1-5410-00 Salaries/Wages-Administration	87,221.00	72,238.31	14,982.69	17.18 %	261,665.00	219,340.51	42,324.49	16.18 %	1,133,880.00
1-5411-00 Salaries & Wages - Field	107,734.00	104,000.22	3,733.78	3.47 %	323,200.00	304,040.62	19,159.38	5.93 %	1,400,532.00
1-5420-00 Payroll Tax Expense	13,672.00	12,829.73	842.27	6.16 %	41,016.00	39,009.37	2,006.63	4.89 %	177,734.00
1-5435-00 Employee Medical Insurance	35,539.00	38,450.82	-2,911.82	-8.19 %	106,617.00	108,125.62	-1,508.62	-1.41 %	444,246.00
1-5436-00 Retiree Medical Insurance	4,038.00	3,601.75	436.25	10.80 %	12,114.00	9,883.24	2,230.76	18.41 %	50,659.00
1-5440-00 Employees Retirement Plan	49,905.00	46,532.49	3,372.51	6.76 %	149,715.00	134,822.66	14,892.34	9.95 %	598,859.00
1-5445-00 Supplemental Retirement 401a	0.00	0.00	0.00	0.00 %	0.00	0.00	0.00	0.00 %	35,000.00
1-5510-00 Motor Vehicle Expense	5,000.00	4,740.37	259.63	5.19 %	15,000.00	16,035.96	-1,035.96	-6.91 %	60,000.00
1-5620-00 Office & Billing Expenses	21,800.00	25,900.27	-4,100.27	-18.81 %	65,400.00	61,657.79	3,742.21	5.72 %	261,600.00
1-5625-00 Meetings / Training / Seminars	2,167.00	4,735.79	-2,568.79	-118.54 %	6,500.00	6,550.01	-50.01	-0.77 %	26,000.00
1-5630-00 Insurance	10,750.00	10,439.08	310.92	2.89 %	32,250.00	31,811.24	438.76	1.36 %	129,000.00
1-5687-00 Membership, Dues, Subscript.	2,000.00	9,217.00	-7,217.00	-360.85 %	12,000.00	18,703.40	-6,703.40	-55.86 %	75,970.00
1-5688-00 Election Expenses	5,000.00	0.00	5,000.00	100.00 %	10,000.00	0.00	10,000.00	100.00 %	25,000.00
1-5689-00 Labor Relations	500.00	0.00	500.00	100.00 %	1,500.00	0.00	1,500.00	100.00 %	6,000.00
1-5700-00 San Mateo County Fees	0.00	0.00	0.00	0.00 %	0.00	0.00	0.00	0.00 %	20,000.00
1-5705-00 State Fees	0.00	0.00	0.00	0.00 %	0.00	0.00	0.00	0.00 %	36,500.00
Total ExpType: 1 - Operating:	677,351.00	863,320.09	-185,969.09	-27.46 %	2,217,643.00	2,412,157.04	-194,514.04	-8.77 %	8,354,018.00
ExpType: 4 - Capital Related									
1-5712-00 Debt Service/Existing Bonds 2006B	366,963.00	0.00	366,963.00	100.00 %	366,963.00	-1,812.44	368,775.44	100.49 %	486,383.00
1-5715-00 Debt Service/CIEDB 11-099	0.00	0.00	0.00	0.00 %	264,524.00	264,523.92	0.08	0.00 %	336,126.00
1-5716-00 Debt Service/CIEDB 2016	0.00	0.00	0.00	0.00 %	231,498.00	231,497.84	0.16	0.00 %	324,235.00
1-5717-00 Chase Bank - 2018 Loan	0.00	318,974.12	-318,974.12	0.00 %	0.00	318,974.12	-318,974.12	0.00 %	0.00
Total ExpType: 4 - Capital Related:	366,963.00	318,974.12	47,988.88	13.08 %	862,985.00	813,183.44	49,801.56	5.77 %	1,146,744.00
Total Expense:	1,044,314.00	1,182,294.21	-137,980.21	-13.21 %	3,080,628.00	3,225,340.48	-144,712.48	-4.70 %	9,500,762.00
Report Total:	14,728.00	69,547.82	54,819.82		531,965.00	687,858.13	155,893.13		3,575,974.00

**COASTSIDE COUNTY WATER DISTRICT
MONTHLY INVESTMENT REPORT
September 30, 2018**

<u>RESERVE BALANCES</u>	Current Year as of 9/30/18	Prior Year as of 9/30/17
CAPITAL AND OPERATING RESERVE	\$6,601,236.73	\$4,782,904.69
RATE STABILIZATION RESERVE	\$250,000.00	\$250,000.00
TOTAL DISTRICT RESERVES	\$6,851,236.73	\$5,032,904.69

ACCOUNT DETAIL

ACCOUNTS WITH FIRST NATIONAL BANK (FNB)		
CHECKING ACCOUNT*	\$4,621,566.15	\$3,979,321.46
CSP T & S ACCOUNT	\$160,385.72	\$16,930.17
MONEY MARKET GEN. FUND (Opened 7/20/17)	\$19,432.09	\$2,500.00
LOCAL AGENCY INVESTMENT FUND (LAIF) BALANCE	\$2,049,152.77	\$1,033,453.06
DISTRICT CASH ON HAND	\$700.00	\$700.00
TOTAL ACCOUNT BALANCES	\$6,851,236.73	\$5,032,904.69

This report is in conformity with CCWD's Investment Policy.

**COASTSIDE COUNTY WATER DISTRICT
APPROVED CAPITAL IMPROVEMENT PROJECTS
FISCAL YEAR 2018/2019**

9/30/2018

Approved CIP Budget FY 18/19	Actual To Date FY 18/19	Projected Year-End FY 18/19	Variance vs. Budget	% Completed	Project Status/ Comments
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Equipment Purchases & Replacement

06-03	SCADA/Telemetry/Electrical Controls Replacement	\$ 50,000		\$ 50,000	\$ -	0%	
99-02	Vehicle Replacement	\$ 100,000		\$ 100,000	\$ -	0%	Vehicles approved at August 2018 Board meeting

Facilities & Maintenance

08-08	PRV Valves Replacement Project	\$ 30,000	\$ 1,790	\$ 30,000	\$ -	6%	
09-09	Fire Hydrant Replacement	\$ 140,000	\$ 20,663	\$ 140,000	\$ -	15%	
16-07	Sample Station Replacement Project	\$ 30,000	\$ 28,013	\$ 30,000	\$ -	93%	
17-15	Pilarcitos Canyon Emergency Road Repairs	\$ 100,000		\$ 100,000	\$ -	0%	
18-13	Denniston WTP and Tank Road Repairs and Paving	\$ 100,000		\$ 100,000	\$ -	0%	
99-01	Meter Change Program	\$ 20,000	\$ 11,098	\$ 20,000	\$ -	55%	

Pipeline Projects

06-02	Highway 1 South Pipeline Replacement Project	\$ 750,000	\$ 5,588	\$ 750,000	\$ -	1%	planned for October-November 2018
07-04	Bell Moon Pipeline Replacement Project	\$ 60,000	\$ 1,244	\$ 60,000	\$ -	2%	in design
13-02	Replace 8 Inch Pipeline Under Creek at Pilarcitos Ave	\$ 50,000		\$ 50,000	\$ -	0%	
14-01	Replace 12" Welded Steel Line on Hwy 92 with 8"	\$ 100,000		\$ 100,000	\$ -	0%	
14-27	Grandview 2 Inch Replacement	\$ 50,000	\$ 254	\$ 50,000	\$ -	1%	in design
14-30	Replace Miscellaneous 2 Inch GS El Granada	\$ 60,000	\$ 5,197	\$ 60,000	\$ -	9%	in design/ready for bid
14-31	Ferdinand Avenue - Replace 4" WS Ferdinand Ave. to Columbus	\$ 60,000		\$ 60,000	\$ -	0%	in design

Pump Stations / Tanks / Wells

06-04	Hazen's Tank Removal	\$ 30,000		\$ 30,000	\$ -	0%	
08-14	Alves Tank Recoating & Refurshment	\$ 600,000		\$ 600,000	\$ -	0%	
19-01	EG Tank #1 Recoating & Refurbishment	\$ 100,000	\$ 5,671	\$ 100,000	\$ -	6%	
19-XX	Miramar Tank - Chime	\$ 40,000		\$ 40,000	\$ -	0%	
18-05	Denniston Tank THM Residual Control	\$ 80,000		\$ 80,000	\$ -	0%	
18-06	CSP -- (3) Butterfly Valves	\$ 80,000		\$ 80,000	\$ -	0%	
19-XX	Tanks - THM Control	\$ 120,000		\$ 120,000	\$ -	0%	

Water Supply Development

12-12	San Vicente Diversion and Pipeline	\$ 100,000	\$ -	\$ 100,000	\$ -	0%	
17-12	Recycled Water Project Development	\$ 100,000	\$ -	\$ 100,000	\$ -	0%	

Water Treatment Plants

08-07	Nunes Filter Valve Replacement	\$ 500,000		\$ 500,000	\$ -	0%	
13-05	Denniston WTP Emergency Power	\$ 50,000		\$ 50,000	\$ -	0%	

FY 18/19 TOTALS	\$ 3,500,000	\$ 79,517	\$ 3,500,000	\$ -	0%	
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**COASTSIDE COUNTY WATER DISTRICT
 APPROVED CAPITAL IMPROVEMENT PROJECTS
 FISCAL YEAR 2018/2019**

9/30/2018

Approved CIP Budget FY 18/19	Actual To Date FY 18/19	Projected Year-End FY 18/19	Variance vs. Budget	% Completed	Project Status/ Comments
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FY2017/2018 CIP Projects in process - paid in FY 2018/2019

18-09	Denniston Heater	\$ 4,800	\$ 4,800	\$ (4,800)		completed
13-08	Crystal Springs Spare 350 HP Motor	\$ 59,803	\$ 65,000	\$ (65,000)		
18-03	CSP Spare 500 Pump Rehabilitation	\$ 41,450	\$ 50,000	\$ (50,000)		
07-03	Pilarcitos Canyon Pipeline Replacement	\$ 13,702	\$ 13,702	\$ (13,702)		Work is budgeted for FY2019/20
12-12	Denniston/San Vicente Water Supply Development	\$ 11,433	\$ 75,000	\$ (75,000)		ongoing
14-26	Replace 2" Pipe in Downtown Half Moon Bay	\$ 145,754	\$ 150,000	\$ (150,000)		near completion
17-16	CSP P3 Soft Start Pump/Shafting Replacement & Motor refurbishment	\$ 3,370	\$ 3,370	\$ (3,370)		
10-02 & 12-04	Denniston Booster Pump Station - Transformer Installation		\$ 40,000	\$ (40,000)		work is in process
18-07	EG #2 Tank Chlorination System (Residual Control System)		\$ 50,000	\$ (50,000)		
17-04	Denniston Dam Spillway Repairs		\$ 90,000	\$ (90,000)		
18-10	Nunes/Denniston Treat Plants Optimization Study	\$ 14,636	\$ 20,000	\$ (20,000)		
				\$ -		

PREVIOUS YEAR TOTALS \$ - \$ 294,947 \$ 561,872 \$ (561,872)

UNSCHEDULED ITEMS (CAPITAL EXPENDITURES) FOR CURRENT FISCAL YEAR 2018/2019

NN-00	Unscheduled CIP	\$ 100,000		\$ 100,000	0%	

NON-BUDGETED TOTALS \$ 100,000 \$ - \$ - \$ 100,000

CIP TOTALS \$ 3,600,000 \$ 374,464 \$ 4,061,872 \$ (461,872)

**Legal Cost Tracking Report
12 Months At-A-Glance**

**Acct. No.5681
Patrick Miyaki - HansonBridgett, LLP
Legal**

Month	Admin (General Legal Fees)	Water Supply Develpmnt	Recycled Water	Transfer Program	CIP	Personnel	Water Shortage	Litigation	Infrastructure Project Review (Reimbursable)	TOTAL
Oct-17	975			222	130	1,268				2,595
Nov-17	2,418			226	2,340	525				5,509
Dec-17	4,934			138	1,300	130				6,502
Jan-18	878			412	260				2,178	3,727
Feb-18	4,485			1,052	260	1,040				6,837
Mar-18	1,268			454	962	1,203				3,886
Apr-18	2,503				8,301					10,803
May-18	6,754					1,404				8,158
Jun-18	4,225			406	1,333	358				6,321
Jul-18	7,430			1,680	488	65				9,662
Aug-18	3,230			647		1,608			216	5,701
Sep-18	3,246			757	963					4,965

TOTAL	42,343	0	0	5,993	16,335	7,600	0	0	2,394	74,664
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**Engineer Cost Tracking Report
12 Months At-A-Glance**

**Acct. No. 5682
JAMES TETER
Engineer**

Month	Admin & Retainer	CIP	Studies & Projects	TOTAL	Reimbursable from Projects
Oct-17	480		930	1,410	930
Nov-17	480		3,007	3,487	3,007
Dec-17	480		338	818	338
Jan-18	480	1,935	1,683	4,098	1,683
Feb-18	480	1,014	7,788	9,282	7,788
Mar-18	1,021	4,270	1,905	7,196	1,905
Apr-18	480	2,197	338	3,015	338
May-18	1,115	1,188		2,303	
Jun-18	480	1,099	169	1,748	169
Jul-18	480	4,989	2,958	8,427	2,958
Aug-18	480	2,380	2,138	4,998	2,138
Sep-18	480	5,197		5,677	
TOTAL	6,936	24,268	21,253	52,457	21,253

Calcon T&M Projects Tracking

9/30/2018

Project No.	Name	Status	Proposal Date	Approved Date	Project Budget	Project Actual thru 6/30/18	Project Billings FY2018-19
Closed Projects:							
CAL-13-01	EG Tank 2 Recoating Project	Closed	9/30/13	10/8/13	\$8,220.00	\$ 8,837.50	
CAL-13-02	Nunes Control System Upgrades	Closed	9/30/13	10/8/13	\$46,141.00	\$ 55,363.60	
CAL-13-03	Win 911 and PLC Software	Closed	9/30/13	10/8/13	\$9,717.00	\$ 12,231.74	
CAL-13-04	Crystal Springs Surge Tank Retrofit	Closed	11/26/13	11/27/13	\$31,912.21	\$ 66,572.54	
CAL-13-06	Nunes Legacy Backwash System Removal	Closed	11/25/13	11/26/13	\$6,516.75	\$ 6,455.00	
CAL-13-07	Denniston Backwash FTW Valves	Closed	11/26/13	11/27/13	\$6,914.21	\$ 9,518.28	
CAL-14-01	Denniston Wash Water Return Retrofit	Closed	1/28/14	2/14/14	\$13,607.00	\$ 13,591.60	
CAL-14-02	Denniston Calrifier SCADA Data	Closed	4/2/14	4/7/14	\$4,125.00	\$ 4,077.50	
CAL-14-03	Nunes Surface Scatter Turbidimeter	Closed	4/2/14	4/7/14	\$2,009.50	\$ -	
CAL-14-04	Phase I Control System Upgrade	Closed	4/2/14	4/7/14	\$75,905.56	\$ 44,459.14	
CAL-14-06	Miramar Control Panel	Closed	8/28/14	8/28/14	\$37,953.00	\$ 27,980.71	
CAL-14-08	SFWater Flow & Data Logger/Cahill Tank	Closed	8/20/2014	8/20/2014	\$1,370.00	\$ 1,372.00	
CAL-15-01	Main Street Monitors	Closed				\$ 6,779.42	
CAL-15-02	Denniston To Do List	Closed				\$ 2,930.00	
CAL-15-03	Nunes & Denniston Turbidity Meters	Closed			\$6,612.50	\$ 12,536.12	
CAL-15-04	Phase II Control System Upgrade	Closed	6/23/2015	8/11/2015	\$195,000.00	\$ 202,227.50	
CAL-15-05	Permanganate Water Flow	Closed				\$ 1,567.15	
CAL-16-04	Radio Network	Closed	12/9/2016	1/10/2017	\$126,246.11	\$ 139,200.68	
CAL-16-05	EI Granada Tank No. 3 Recoating	Closed	12/16/2016		\$6,904.50	\$ 6,845.00	
CAL-17-03	Nunes Valve Control	Closed	6/29/2017	7/11/2017	\$73,281.80	\$ 79,034.35	
CAL-17-04	Denniston Booster Pump Station	Closed	7/27/2017	8/8/2017	\$21,643.75	\$ 29,760.00	
CAL-17-05	Crystal Springs Pump Station #3 Soft Start	Closed	7/27/2017	8/8/2017	\$12,213.53	\$ 12,178.13	
CAL-18-04	Tank Levels Calibration Special	Closed	3/5/2018	3/5/2018	\$8,388.75	\$ 10,700.00	
CAL-18-05	Pilarcitos Stream Flow Gauge -Well 1 120 Service Power	Closed	3/22/2018	3/22/2018	\$3,558.13	\$ 3,997.40	
CAL-17-06	Nunes Flocculartor & Rapid Mix VFD Panels	Closed	12/6/2017	12/12/2017	\$29,250.75	\$ 30,695.66	
Closed Projects - Subtotal (pre FY2018-19)					\$727,491.05	\$ 788,911.02	
Open Projects:							
CAL-17-01	Crystal Springs Leak Valve Control		2/8/2017	2/14/2017	\$8,701.29	\$ 18,055.88	
CAL-17-02	Crystal Springs Requirements & Addtl Controls		2/8/2017	2/14/2017	\$38,839.50	\$ 41,172.06	
CAL-18-03	CSP Breakers & Handles		3/7/2018	3/7/2018	\$25,471.47	\$ 29,167.79	
Open Projects - Subtotal					\$73,012.26	\$88,395.73	\$0.00
Other: Maintenance							
Tanks							
Crystal Springs Maintenance							\$ 326.26
Nunes Maintenance							
Denniston Maintenance							\$ 4,085.00
Distribution System							\$ 8,306.78
TOTAL FY 2018/19							\$12,718.04



Coastside County Water District

Monthly Budget Report Account Summary

For Fiscal: 2018-2019 Period Ending: 10/31/2018

	October Budget	October Activity	Variance Favorable (Unfavorable)	Percent Variance	YTD Budget	YTD Activity	Variance Favorable (Unfavorable)	Percent Variance	Total Budget	
Revenue										
RevType: 1 - Operating										
1-4120-00	Water Revenue	1,290,118.00	1,094,366.40	-195,751.60	-15.17 %	4,823,652.00	4,928,828.74	105,176.74	2.18 %	11,710,500.00
	Total RevType: 1 - Operating:	1,290,118.00	1,094,366.40	-195,751.60	-15.17 %	4,823,652.00	4,928,828.74	105,176.74	2.18 %	11,710,500.00
RevType: 2 - Non-Operating										
1-4170-00	Water Taken From Hydrants	4,167.00	8,855.36	4,688.36	112.51 %	16,667.00	31,735.81	15,068.81	90.41 %	50,000.00
1-4180-00	Late Notice - 10% Penalty	5,000.00	12,152.68	7,152.68	143.05 %	20,000.00	21,778.40	1,778.40	8.89 %	60,000.00
1-4230-00	Service Connections	833.00	1,842.64	1,009.64	121.21 %	3,333.00	5,073.80	1,740.80	52.23 %	10,000.00
1-4920-00	Interest Earned	520.00	9,637.29	9,117.29	1,753.33 %	2,079.00	11,138.92	9,059.92	435.78 %	6,236.00
1-4930-00	Tax Apportionments/County Checks	0.00	1,362.94	1,362.94	0.00 %	0.00	2,965.84	2,965.84	0.00 %	725,000.00
1-4950-00	Miscellaneous Income	2,083.00	0.00	-2,083.00	-100.00 %	8,333.00	0.00	-8,333.00	-100.00 %	25,000.00
1-4955-00	Cell Site Lease Income	13,750.00	16,080.20	2,330.20	16.95 %	55,000.00	55,974.61	974.61	1.77 %	165,000.00
1-4965-00	ERAF Refund - County Taxes	0.00	0.00	0.00	0.00 %	0.00	0.00	0.00	0.00 %	325,000.00
	Total RevType: 2 - Non-Operating:	26,353.00	49,931.11	23,578.11	89.47 %	105,412.00	128,667.38	23,255.38	22.06 %	1,366,236.00
	Total Revenue:	1,316,471.00	1,144,297.51	-172,173.49	-13.08 %	4,929,064.00	5,057,496.12	128,432.12	2.61 %	13,076,736.00
Expense										
ExpType: 1 - Operating										
1-5130-00	Water Purchased	225,000.00	316,395.56	-91,395.56	-40.62 %	900,000.00	1,368,274.95	-468,274.95	-52.03 %	1,900,998.00
1-5230-00	Nunes T P Pump Expense	3,558.00	3,240.97	317.03	8.91 %	14,232.00	16,356.29	-2,124.29	-14.93 %	42,697.00
1-5231-00	CSP Pump Station Pump Expense	39,897.00	40,460.32	-563.32	-1.41 %	159,586.00	152,403.84	7,182.16	4.50 %	337,080.00
1-5232-00	Other Trans. & Dist Pump Expense	2,247.00	2,218.28	28.72	1.28 %	8,988.00	8,785.31	202.69	2.26 %	26,965.00
1-5233-00	Pilarcitos Canyon Pump Expense	250.00	222.30	27.70	11.08 %	1,000.00	903.87	96.13	9.61 %	39,248.00
1-5234-00	Denniston T P Pump Expense	10,833.00	178.98	10,654.02	98.35 %	43,333.00	19,050.23	24,282.77	56.04 %	130,000.00
1-5242-00	CSP Pump Station Operations	892.00	620.74	271.26	30.41 %	3,567.00	3,699.02	-132.02	-3.70 %	10,700.00
1-5243-00	CSP Pump Station Maintenance	3,083.00	686.04	2,396.96	77.75 %	12,333.00	4,144.30	8,188.70	66.40 %	37,000.00
1-5246-00	Nunes T P Operations - General	6,488.00	7,980.55	-1,492.55	-23.00 %	25,950.00	37,695.04	-11,745.04	-45.26 %	77,850.00
1-5247-00	Nunes T P Maintenance	10,208.00	11,992.70	-1,784.70	-17.48 %	40,833.00	23,237.25	17,595.75	43.09 %	122,500.00
1-5248-00	Denniston T P Operations-General	3,917.00	704.26	3,212.74	82.02 %	15,667.00	6,028.44	9,638.56	61.52 %	47,000.00
1-5249-00	Denniston T.P. Maintenance	8,487.00	52,607.26	-44,120.26	-519.86 %	33,950.00	71,131.24	-37,181.24	-109.52 %	101,850.00
1-5250-00	Laboratory Expenses	5,954.00	8,536.62	-2,582.62	-43.38 %	23,816.00	25,492.61	-1,676.61	-7.04 %	71,450.00
1-5260-00	Maintenance - General	24,309.00	39,397.44	-15,088.44	-62.07 %	97,234.00	111,185.70	-13,951.70	-14.35 %	291,700.00
1-5261-00	Maintenance - Well Fields	3,333.00	0.00	3,333.00	100.00 %	13,333.00	0.00	13,333.00	100.00 %	40,000.00
1-5263-00	Uniforms	0.00	0.00	0.00	0.00 %	8,000.00	8,127.76	-127.76	-1.60 %	12,500.00
1-5318-00	Studies/Surveys/Consulting	10,000.00	-7,500.00	17,500.00	175.00 %	40,000.00	14,925.00	25,075.00	62.69 %	160,000.00
1-5321-00	Water Resources	2,100.00	521.92	1,578.08	75.15 %	8,400.00	2,919.64	5,480.36	65.24 %	25,200.00

Monthly Budget Report

For Fiscal: 2018-2019 Period Ending: 10/31/2018

		October Budget	October Activity	Variance Favorable (Unfavorable)	Percent Variance	YTD Budget	YTD Activity	Variance Favorable (Unfavorable)	Percent Variance	Total Budget
1-5322-00	Community Outreach	3,000.00	5,383.68	-2,383.68	-79.46 %	10,000.00	6,479.95	3,520.05	35.20 %	54,700.00
1-5381-00	Legal	8,333.00	3,525.00	4,808.00	57.70 %	33,333.00	15,860.50	17,472.50	52.42 %	100,000.00
1-5382-00	Engineering	5,000.00	480.00	4,520.00	90.40 %	20,000.00	6,920.00	13,080.00	65.40 %	60,000.00
1-5383-00	Financial Services	3,000.00	3,620.00	-620.00	-20.67 %	8,000.00	6,030.00	1,970.00	24.63 %	20,000.00
1-5384-00	Computer Services	13,000.00	14,302.05	-1,302.05	-10.02 %	52,000.00	58,100.35	-6,100.35	-11.73 %	163,600.00
1-5410-00	Salaries/Wages-Administration	87,222.00	74,550.70	12,671.30	14.53 %	348,887.00	293,891.21	54,995.79	15.76 %	1,133,880.00
1-5411-00	Salaries & Wages - Field	107,733.00	102,919.66	4,813.34	4.47 %	430,933.00	406,960.28	23,972.72	5.56 %	1,400,532.00
1-5420-00	Payroll Tax Expense	13,672.00	12,323.20	1,348.80	9.87 %	54,688.00	51,332.57	3,355.43	6.14 %	177,734.00
1-5435-00	Employee Medical Insurance	35,539.00	36,887.61	-1,348.61	-3.79 %	142,156.00	145,013.23	-2,857.23	-2.01 %	444,246.00
1-5436-00	Retiree Medical Insurance	4,038.00	4,263.18	-225.18	-5.58 %	16,152.00	14,146.42	2,005.58	12.42 %	50,659.00
1-5440-00	Employees Retirement Plan	49,905.00	46,432.85	3,472.15	6.96 %	199,620.00	181,255.51	18,364.49	9.20 %	598,859.00
1-5445-00	Supplemental Retirement 401a	0.00	0.00	0.00	0.00 %	0.00	0.00	0.00	0.00 %	35,000.00
1-5510-00	Motor Vehicle Expense	5,000.00	9,362.33	-4,362.33	-87.25 %	20,000.00	25,398.29	-5,398.29	-26.99 %	60,000.00
1-5620-00	Office & Billing Expenses	21,800.00	12,690.09	9,109.91	41.79 %	87,200.00	74,347.90	12,852.10	14.74 %	261,600.00
1-5625-00	Meetings / Training / Seminars	2,166.00	5,731.33	-3,565.33	-164.60 %	8,666.00	12,281.34	-3,615.34	-41.72 %	26,000.00
1-5630-00	Insurance	10,750.00	11,160.92	-410.92	-3.82 %	43,000.00	42,972.16	27.84	0.06 %	129,000.00
1-5687-00	Membership, Dues, Subscript.	23,000.00	315.00	22,685.00	98.63 %	35,000.00	19,018.40	15,981.60	45.66 %	75,970.00
1-5688-00	Election Expenses	5,000.00	0.00	5,000.00	100.00 %	15,000.00	0.00	15,000.00	100.00 %	25,000.00
1-5689-00	Labor Relations	500.00	0.00	500.00	100.00 %	2,000.00	0.00	2,000.00	100.00 %	6,000.00
1-5700-00	San Mateo County Fees	4,000.00	4,189.38	-189.38	-4.73 %	4,000.00	4,189.38	-189.38	-4.73 %	20,000.00
1-5705-00	State Fees	1,500.00	0.00	1,500.00	100.00 %	1,500.00	0.00	1,500.00	100.00 %	36,500.00
	Total ExpType: 1 - Operating:	764,714.00	826,400.92	-61,686.92	-8.07 %	2,982,357.00	3,238,557.98	-256,200.98	-8.59 %	8,354,018.00
	ExpType: 4 - Capital Related									
1-5712-00	Debt Service/Existing Bonds 2006B	0.00	0.00	0.00	0.00 %	366,963.00	-1,812.44	368,775.44	100.49 %	486,383.00
1-5715-00	Debt Service/CIEDB 11-099	0.00	0.00	0.00	0.00 %	264,524.00	264,523.92	0.08	0.00 %	336,126.00
1-5716-00	Debt Service/CIEDB 2016	0.00	0.00	0.00	0.00 %	231,498.00	231,497.84	0.16	0.00 %	324,235.00
1-5717-00	Chase Bank - 2018 Loan	0.00	0.00	0.00	0.00 %	0.00	318,974.12	-318,974.12	0.00 %	0.00
	Total ExpType: 4 - Capital Related:	0.00	0.00	0.00	0.00 %	862,985.00	813,183.44	49,801.56	5.77 %	1,146,744.00
	Total Expense:	764,714.00	826,400.92	-61,686.92	-8.07 %	3,845,342.00	4,051,741.42	-206,399.42	-5.37 %	9,500,762.00
	Report Total:	551,757.00	317,896.59	-233,860.41		1,083,722.00	1,005,754.70	-77,967.30		3,575,974.00

**COASTSIDE COUNTY WATER DISTRICT
MONTHLY INVESTMENT REPORT
October 31, 2018**

<u>RESERVE BALANCES</u>	Current Year as of 10/31/18	Prior Year as of 10/31/17
CAPITAL AND OPERATING RESERVE	\$6,830,491.49	\$3,630,958.87
RATE STABILIZATION RESERVE	\$250,000.00	\$250,000.00
TOTAL DISTRICT RESERVES	\$7,080,491.49	\$3,880,958.87

ACCOUNT DETAIL

ACCOUNTS WITH FIRST NATIONAL BANK (FNB)		
CHECKING ACCOUNT*	\$4,843,490.49	\$2,824,578.54
CSP T & S ACCOUNT	\$160,406.15	\$16,930.17
MONEY MARKET GEN. FUND (Opened 7/20/17)	\$19,432.92	\$2,500.00
LOCAL AGENCY INVESTMENT FUND (LAIF) BALANCE	\$2,056,461.93	\$1,036,250.16
DISTRICT CASH ON HAND	\$700.00	\$700.00
TOTAL ACCOUNT BALANCES	\$7,080,491.49	\$3,880,958.87

This report is in conformity with CCWD's Investment Policy.

**COASTSIDE COUNTY WATER DISTRICT
APPROVED CAPITAL IMPROVEMENT PROJECTS
FISCAL YEAR 2018/2019**

10/31/2018

Approved CIP Budget FY 18/19	Actual To Date FY 18/19	Projected Year-End FY 18/19	Variance vs. Budget	% Completed	Project Status/ Comments
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Equipment Purchases & Replacement

06-03	SCADA/Telemetry/Electrical Controls Replacement	\$ 50,000		\$ 50,000	\$ -	0%	
99-02	Vehicle Replacement	\$ 100,000		\$ 100,000	\$ -	0%	Vehicles approved at August 2018 Board meeting

Facilities & Maintenance

08-08	PRV Valves Replacement Project	\$ 30,000	\$ 3,701	\$ 30,000	\$ -	12%	
09-09	Fire Hydrant Replacement	\$ 140,000	\$ 50,963	\$ 140,000	\$ -	36%	
16-07	Sample Station Replacement Project	\$ 30,000	\$ 28,013	\$ 30,000	\$ -	93%	
17-15	Pilarcitos Canyon Emergency Road Repairs	\$ 100,000		\$ 100,000	\$ -	0%	
18-13	Denniston WTP and Tank Road Repairs and Paving	\$ 100,000		\$ 100,000	\$ -	0%	
99-01	Meter Change Program	\$ 20,000	\$ 17,999	\$ 20,000	\$ -	90%	

Pipeline Projects

06-02	Highway 1 South Pipeline Replacement Project	\$ 750,000	\$ 18,144	\$ 750,000	\$ -	2%	work started in November 2018
07-04	Bell Moon Pipeline Replacement Project	\$ 60,000	\$ 1,244	\$ 60,000	\$ -	2%	in design
13-02	Replace 8 Inch Pipeline Under Creek at Pilarcitos Ave	\$ 50,000		\$ 50,000	\$ -	0%	
14-01	Replace 12" Welded Steel Line on Hwy 92 with 8"	\$ 100,000		\$ 100,000	\$ -	0%	
14-27	Grandview 2 Inch Replacement	\$ 50,000	\$ 2,381	\$ 50,000	\$ -	5%	in design
14-30	Replace Miscellaneous 2 Inch GS El Granada	\$ 60,000	\$ 5,301	\$ 60,000	\$ -	9%	in design/ready for bid
14-31	Ferdinand Avenue - Replace 4" WS Ferdinand Ave. to Columbus	\$ 60,000		\$ 60,000	\$ -	0%	in design

Pump Stations / Tanks / Wells

06-04	Hazen's Tank Removal	\$ 30,000		\$ 30,000	\$ -	0%	
08-14	Alves Tank Recoating & Refurshment	\$ 600,000	\$ 742	\$ 600,000	\$ -	0%	
19-01	EG Tank #1 Recoating & Refurbishment	\$ 100,000	\$ 5,671	\$ 100,000	\$ -	6%	
19-XX	Miramar Tank - Chime	\$ 40,000		\$ 40,000	\$ -	0%	
18-05	Denniston Tank THM Residual Control	\$ 80,000		\$ 80,000	\$ -	0%	
18-06	CSP -- (3) Butterfly Valves	\$ 80,000	\$ 7,319	\$ 80,000	\$ -	9%	
19-XX	Tanks - THM Control	\$ 120,000		\$ 120,000	\$ -	0%	

Water Supply Development

12-12	San Vicente Diversion and Pipeline	\$ 100,000	\$ -	\$ 100,000	\$ -	0%	
17-12	Recycled Water Project Development	\$ 100,000	\$ -	\$ 100,000	\$ -	0%	

Water Treatment Plants

08-07	Nunes Filter Valve Replacement	\$ 500,000		\$ 500,000	\$ -	0%	
13-05	Denniston WTP Emergency Power	\$ 50,000		\$ 50,000	\$ -	0%	

FY 18/19 TOTALS	\$ 3,500,000	\$ 141,480	\$ 3,500,000	\$ -			
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COASTSIDE COUNTY WATER DISTRICT
 APPROVED CAPITAL IMPROVEMENT PROJECTS
 FISCAL YEAR 2018/2019

10/31/2018

Approved CIP Budget FY 18/19	Actual To Date FY 18/19	Projected Year-End FY 18/19	Variance vs. Budget	% Completed	Project Status/ Comments
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FY2017/2018 CIP Projects in process - paid in FY 2018/2019

18-09	Denniston Heater		\$ 4,800	\$ 4,800	\$ (4,800)		completed
13-08	Crystal Springs Spare 350 HP Motor		\$ 70,556	\$ 70,556	\$ (70,556)		
18-03	CSP Spare 500 Pump Rehabilitation		\$ 41,450	\$ 50,000	\$ (50,000)		
07-03	Pilarcitos Canyon Pipeline Replacement		\$ 17,384	\$ 17,384	\$ (17,384)		Work is budgeted for FY2019/20
12-12	Denniston/San Vicente Water Supply Development		\$ 11,433	\$ 75,000	\$ (75,000)		ongoing
14-26	Replace 2" Pipe in Downtown Half Moon Bay		\$ 145,754	\$ 150,000	\$ (150,000)		
17-16	CSP P3 Soft Start Pump/Shafting Replacement & Motor refurbishment		\$ 1,885	\$ 1,885	\$ (1,885)		
10-02 & 12-04	Denniston Booster Pump Station - Transformer Installation		\$ 21,924	\$ 40,000	\$ (40,000)		work is in process
18-07	EG #2 Tank Chlorination System (Residual Control System)			\$ 50,000	\$ (50,000)		
17-04	Denniston Dam Spillway Repairs		\$ 23,331	\$ 90,000	\$ (90,000)		
18-10	Nunes/Denniston Treat Plants Optimization Study		\$ 16,916	\$ 20,000	\$ (20,000)		
					\$ -		

PREVIOUS YEAR TOTALS \$ - \$ 355,432 \$ 569,625 \$ (569,625)

UNSCHEDULED ITEMS (CAPITAL EXPENDITURES) FOR CURRENT FISCAL YEAR 2018/2019

NN-00	Unscheduled CIP	\$ 100,000			\$ 100,000	0%	

NON-BUDGETED TOTALS \$ 100,000 \$ - \$ - \$ 100,000

CIP TOTALS \$ 3,600,000 \$ 496,911 \$ 4,069,625 \$ (469,625)

**Legal Cost Tracking Report
12 Months At-A-Glance**

**Acct. No.5681
Patrick Miyaki - HansonBridgett, LLP
Legal**

Month	Admin (General Legal Fees)	Water Supply Develpmnt	Recycled Water	Transfer Program	CIP	Personnel	Water Shortage	Litigation	Infrastructure Project Review (Reimbursable)	TOTAL
Nov-17	2,418			226	2,340	525				5,509
Dec-17	4,934			138	1,300	130				6,502
Jan-18	878			412	260				2,178	3,727
Feb-18	4,485			1,052	260	1,040				6,837
Mar-18	1,268			454	962	1,203				3,886
Apr-18	2,503				8,301					10,803
May-18	6,754					1,404				8,158
Jun-18	4,225			406	1,333	358				6,321
Jul-18	7,430			1,680	488	65				9,662
Aug-18	3,230			647		1,608			216	5,701
Sep-18	3,246			757	963					4,965
Oct-18	2,211				437					2,648

TOTAL	43,579	0	0	5,771	16,642	6,332	0	0	2,394	74,717
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**Engineer Cost Tracking Report
12 Months At-A-Glance**

**Acct. No. 5682
JAMES TETER
Engineer**

Month	Admin & Retainer	CIP	Studies & Projects	TOTAL	Reimbursable from Projects
Nov-17	480		3,007	3,487	3,007
Dec-17	480		338	818	338
Jan-18	480	1,935	1,683	4,098	1,683
Feb-18	480	1,014	7,788	9,282	7,788
Mar-18	1,021	4,270	1,905	7,196	1,905
Apr-18	480	2,197	338	3,015	338
May-18	1,115	1,188		2,303	
Jun-18	480	1,099	169	1,748	169
Jul-18	480	4,989	2,958	8,427	2,958
Aug-18	480	2,380	2,138	4,998	2,138
Sep-18	480	5,197		5,677	
Oct-18	480		3,142	3,622	3,143
TOTAL	6,936	24,268	23,466	54,670	23,466

Calcon T&M Projects Tracking

10/31/2018

Project No.	Name	Status	Proposal Date	Approved Date	Project Budget	Project Actual thru 6/30/18	Project Billings FY2018-19
Closed Projects:							
CAL-13-01	EG Tank 2 Recoating Project	Closed	9/30/13	10/8/13	\$8,220.00	\$ 8,837.50	
CAL-13-02	Nunes Control System Upgrades	Closed	9/30/13	10/8/13	\$46,141.00	\$ 55,363.60	
CAL-13-03	Win 911 and PLC Software	Closed	9/30/13	10/8/13	\$9,717.00	\$ 12,231.74	
CAL-13-04	Crystal Springs Surge Tank Retrofit	Closed	11/26/13	11/27/13	\$31,912.21	\$ 66,572.54	
CAL-13-06	Nunes Legacy Backwash System Removal	Closed	11/25/13	11/26/13	\$6,516.75	\$ 6,455.00	
CAL-13-07	Denniston Backwash FTW Valves	Closed	11/26/13	11/27/13	\$6,914.21	\$ 9,518.28	
CAL-14-01	Denniston Wash Water Return Retrofit	Closed	1/28/14	2/14/14	\$13,607.00	\$ 13,591.60	
CAL-14-02	Denniston Calrifier SCADA Data	Closed	4/2/14	4/7/14	\$4,125.00	\$ 4,077.50	
CAL-14-03	Nunes Surface Scatter Turbidimeter	Closed	4/2/14	4/7/14	\$2,009.50	\$ -	
CAL-14-04	Phase I Control System Upgrade	Closed	4/2/14	4/7/14	\$75,905.56	\$ 44,459.14	
CAL-14-06	Miramar Control Panel	Closed	8/28/14	8/28/14	\$37,953.00	\$ 27,980.71	
CAL-14-08	SFWater Flow & Data Logger/Cahill Tank	Closed	8/20/2014	8/20/2014	\$1,370.00	\$ 1,372.00	
CAL-15-01	Main Street Monitors	Closed				\$ 6,779.42	
CAL-15-02	Denniston To Do List	Closed				\$ 2,930.00	
CAL-15-03	Nunes & Denniston Turbidity Meters	Closed			\$6,612.50	\$ 12,536.12	
CAL-15-04	Phase II Control System Upgrade	Closed	6/23/2015	8/11/2015	\$195,000.00	\$ 202,227.50	
CAL-15-05	Permanganate Water Flow	Closed				\$ 1,567.15	
CAL-16-04	Radio Network	Closed	12/9/2016	1/10/2017	\$126,246.11	\$ 139,200.68	
CAL-16-05	EI Granada Tank No. 3 Recoating	Closed	12/16/2016		\$6,904.50	\$ 6,845.00	
CAL-17-03	Nunes Valve Control	Closed	6/29/2017	7/11/2017	\$73,281.80	\$ 79,034.35	
CAL-17-04	Denniston Booster Pump Station	Closed	7/27/2017	8/8/2017	\$21,643.75	\$ 29,760.00	
CAL-17-05	Crystal Springs Pump Station #3 Soft Start	Closed	7/27/2017	8/8/2017	\$12,213.53	\$ 12,178.13	
CAL-18-04	Tank Levels Calibration Special	Closed	3/5/2018	3/5/2018	\$8,388.75	\$ 10,700.00	
CAL-18-05	Pilarcitos Stream Flow Gauge -Well 1 120 Service Power	Closed	3/22/2018	3/22/2018	\$3,558.13	\$ 3,997.40	
CAL-17-06	Nunes Flocculartor & Rapid Mix VFD Panels	Closed	12/6/2017	12/12/2017	\$29,250.75	\$ 30,695.66	
Closed Projects - Subtotal (pre FY2018-19)					\$727,491.05	\$ 788,911.02	
Open Projects:							
CAL-17-01	Crystal Springs Leak Valve Control		2/8/2017	2/14/2017	\$8,701.29	\$ 18,055.88	
CAL-17-02	Crystal Springs Requirements & Addtl Controls		2/8/2017	2/14/2017	\$38,839.50	\$ 41,172.06	
CAL-18-03	CSP Breakers & Handles		3/7/2018	3/7/2018	\$25,471.47	\$ 29,167.79	
Open Projects - Subtotal					\$73,012.26	\$88,395.73	\$0.00
Other: Maintenance							
Tanks							
Crystal Springs Maintenance							\$ 489.39
Nunes Maintenance							
Denniston Maintenance							\$ 5,455.00
Distribution System							\$ 14,056.78
TOTAL FY 2018/19							\$20,001.17

COASTSIDE COUNTY WATER DISTRICT

766 MAIN STREET

HALF MOON BAY, CA 94019

MINUTES OF THE REGULAR BOARD OF DIRECTORS MEETING

Tuesday, September 11, 2018

- 1) **ROLL CALL** - President Robert Feldman called the meeting to order at 7:00 p.m. Present at roll call: Directors Chris Mickelsen, Arnie Glassberg, Glenn Reynolds and Vice-President Ken Coverdell.

Also present: David Dickson, General Manager; Mary Rogren, Assistant General Manager; Patrick Miyaki, Legal Counsel; James Derbin, Superintendent of Operations, JoAnne Whelen, Administrative Assistant/Recording Secretary; Cathleen Brennan, Water Resources Analyst and Gina Brazil, Office Manager.

- 2) **PLEDGE OF ALLEGIANCE**

- 3) **PUBLIC COMMENT** - There were no public comments.

- 4) **SPECIAL ORDER OF BUSINESS - PUBLIC HEARING**

Coastside County Water District Ordinance 2018-01 - An Ordinance of Coastside County Water District Updating Water Use Efficiency Regulations

Staff Presentation - Ms. Brennan provided a brief background regarding the purpose of the Indoor Water Use Efficiency Ordinance, a mandatory water efficiency measure that was designed to reduce per capita indoor water consumption for new and expanded water services in the District's service area. She then reviewed the proposed amendments to the ordinance to align the District's requirements with recent state legislation, changes in the California Plumbing Code and Green Building Standards. Ms. Brennan then reviewed the proposed amendments and for the record, stated that this public hearing had been properly noticed in the Half Moon Bay Review newspaper.

Open Public Hearing - President Feldman opened the Public Hearing at 7:16 p.m. to receive public comments and consider adoption of Ordinance 2018-01 Updating Water Use Efficiency Regulations.

There were no public comments stated.

Close Public Hearing - President Feldman closed the Public hearing at 7:16 p.m. and suggested consideration of adoption of Ordinance 2018-01.

ON MOTION BY Vice-President Coverdell and seconded by Director Reynolds, the Board voted by roll call vote to adopt Ordinance 2018-01 Updating Water Use Efficiency Regulations:

Vice-President Coverdell	Aye
Director Glassberg	Aye
Director Mickelsen	Aye
Director Reynolds	Aye
President Feldman	Aye

5) CONSENT CALENDAR

- A.** Approval of disbursements for the month ending August 31, 2018:
Claims: \$903,874.25; Payroll: \$98,198.03 for a total of \$1,002,072.28
- B.** Acceptance of Financial Reports
- C.** Approval of Minutes of August 14, 2018 Regular Board of Directors Meeting
- D.** Monthly Water Service Connection Transfer Report
- E.** Installed Water Connection Capacity and Water Meters Report
- F.** Total CCWD Production Reports
- G.** CCWD Monthly Sales by Category Report –August 2018
- H.** Monthly Planned Plant or Tank Discharge and New Water Line Flushing Report
- I.** Monthly Rainfall Reports

Director Reynolds reported that he had reviewed the monthly financial claims and found all to be in order.

President Feldman suggested that the District’s Facilities Committee members meet soon to discuss the progress of the District’s Capital Improvement Program.

Vice-President Coverdell suggested that the District’s budget be reviewed further in terms of the amount initially budgeted for water purchased.

ON MOTION BY Director Glassberg and seconded by Director Reynolds, the Board voted by roll call vote to approve the Consent Calendar in its entirety:

Vice-President Coverdell	Aye
Director Glassberg	Aye
Director Mickelsen	Aye
Director Reynolds	Aye
President Feldman	Aye

6) MEETINGS ATTENDED / DIRECTOR COMMENTS

Director Mickelsen provided a brief report on a recent meeting with the San Francisco Public Utilities Commission (SFPUC) that he had attended as a representative of the Bay Area Water Supply and Conservation Agency (BAWSCA) and spoke to urge SFPUC to

seek a negotiated settlement with the State Water Resources Control Board over the Bay Delta Plan.

7) **GENERAL BUSINESS**

A. **Comments submitted by Coastside County Water District to the Department of Water Resources on the Draft 2018 SGMA (Sustainable Groundwater Management Act) Basis Prioritization**

Mr. Dickson summarized the background of this matter and shared the comments that staff had recently submitted to the Department of Water Resources regarding the 2018 Basin Prioritization of the Half Moon Bay Terrace Basin. Brief discussion ensued, with Mr. Dickson advising that updates would be provided to the Board on this process and any determinations made by the Department of Water Resources.

8) **MONTHLY INFORMATIONAL REPORTS**

A. **Superintendent of Operations Report**

Mr. Derbin reviewed the monthly projects and source of supply highlights.

9) **DIRECTOR AGENDA ITEMS - REQUESTS FOR FUTURE BOARD MEETINGS**

Director Reynolds referenced a recent article and summarized current issues with the Colorado River and suggested that although not urgent, he proposed that he and Director Mickelsen could meet as members of the Water Resources Committee to discuss the situation at some point in the future.

President Feldman reported that he had recently discussed with Mr. Dickson the interest in scheduling a follow up meeting to the last District Strategic Planning Session and suggested that the Board meet in the early part of 2019 to discuss a water use plan, including water security and availability issues.

There was a brief break provided at 8:12 p.m. to clear the Board room to prepare for discussion of the Closed Session agenda item. The Closed Session discussion began at 8:24 p.m.

10) **CLOSED SESSION**

A. **Public Employee Performance Evaluation
Pursuant to California Government Section 54957
Title: General Manager**

- 11) **RECONVENE TO OPEN SESSION** - The meeting reconvened to open session at 8:33p.m. with David Dickson reporting that no action was taken in the closed session.

- 12) **ADJOURNMENT** - The meeting was adjourned at 8:33 p.m.

Respectfully submitted,

David R. Dickson, General Manager
Secretary to the District

Robert C. Feldman, President
Board of Directors

TOTAL CCWD PRODUCTION (MG) ALL SOURCES- FY 2019

	CCWD Sources			SFPUC Sources		RAW WATER TOTAL	UNMETERED WATER	TREATED TOTAL
	DENNISTON WELLS	DENNISTON RESERVOIR	PILARCITOS WELLS	PILARCITOS LAKE	CRYSTAL SPRINGS RESERVOIR			
JUL	2.36	13.98	0.00	37.74	30.90	84.98	3.98	81.00
AUG	0.62	3.36	0.00	27.20	36.80	67.98	1.94	66.04
SEPT	0.00	0.00	0.00	30.48	39.24	69.72	1.48	68.24
OCT								
NOV								
DEC								
JAN								
FEB								
MAR								
APR								
MAY								
JUN								
TOTAL	2.98	17.34	0.00	95.42	106.94	222.68	7.40	215.28
% MONTHLY TOTAL	0.0%	0.0%	0.0%	43.7%	56.3%	100.0%	2.1%	0.0%
% ANNUAL TO DATE TOTAL	1.3%	7.8%	0.0%	42.9%	48.0%	100.0%	3.3%	96.7%

CCWD vs SFPUC- month 0.0% 100.0%

CCWD vs SFPUC- annual 9.1% 90.9%

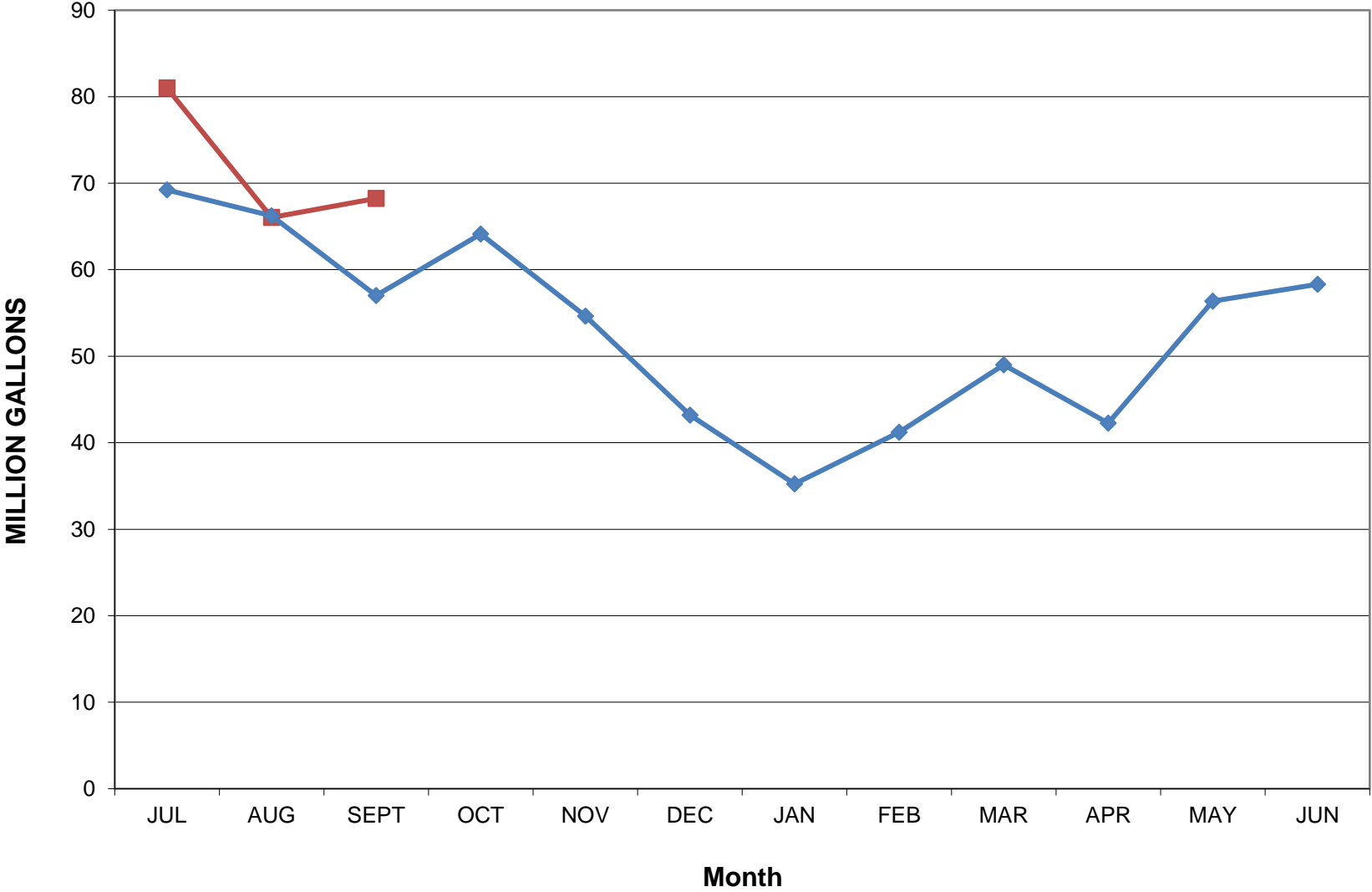
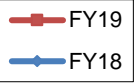
12 Month Running Treated Total

595.97

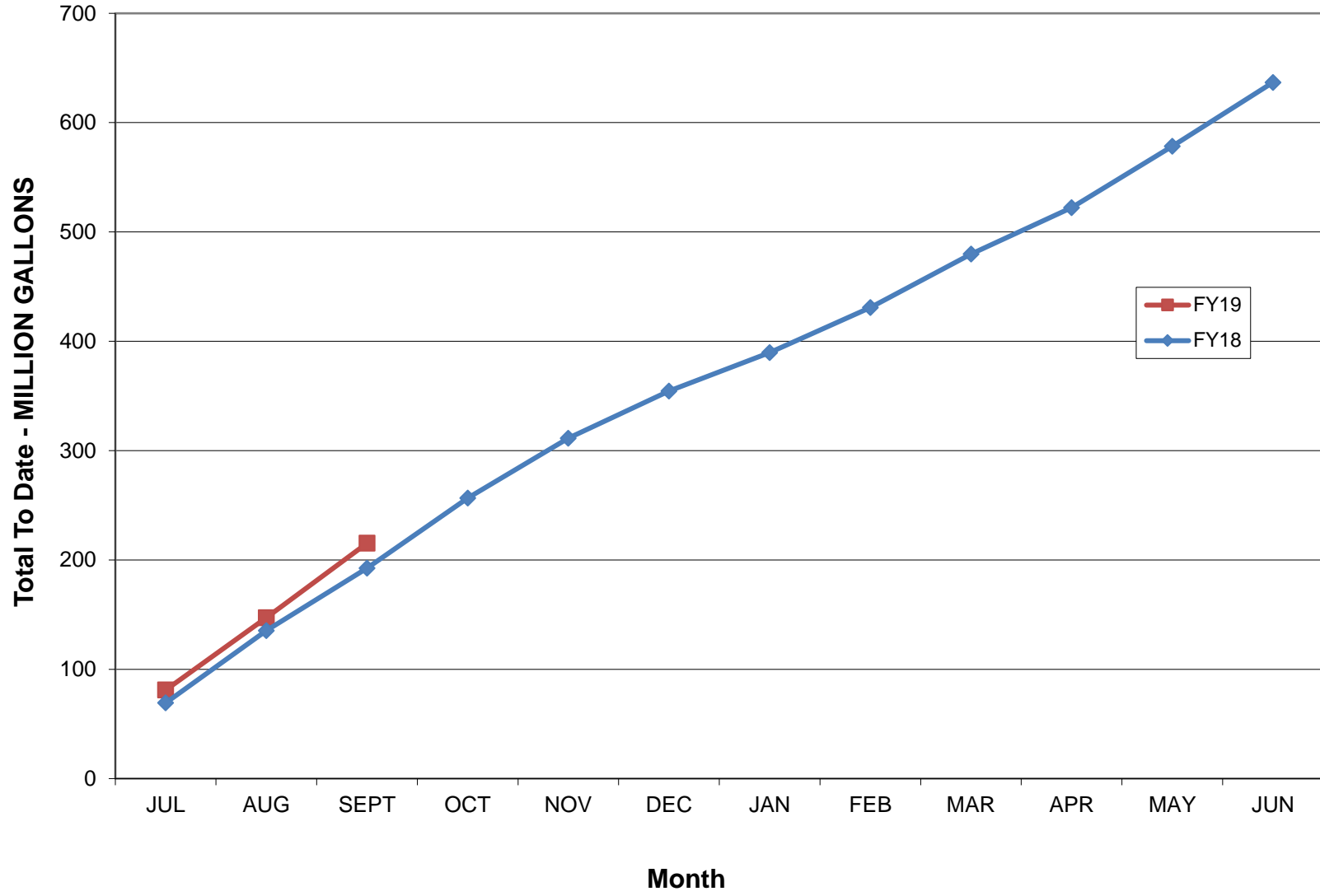
TOTAL CCWD PRODUCTION (MG) ALL SOURCES- FY 2018

	CCWD Sources			SFPUC Sources		RAW WATER TOTAL	UNMETERED WATER	TREATED TOTAL
	DENNISTON WELLS	DENNISTON RESERVOIR	PILARCITOS WELLS	PILARCITOS LAKE	CRYSTAL SPRINGS RESERVOIR			
JUL	0.87	25.93	0.00	0.00	45.87	72.67	3.45	69.22
AUG	2.32	24.89	0.00	0.00	42.86	70.07	3.85	66.22
SEPT	2.21	19.72	0.00	0.00	38.88	60.81	3.80	57.01
OCT	1.63	15.79	0.00	0.00	50.08	67.50	3.37	64.13
NOV	4.82	21.54	18.4	0.00	12.45	57.21	2.57	54.64
DEC	0.09	22.00	14.32	0.00	10.04	46.45	3.25	43.20
JAN	0.09	15.70	11.20	0.00	11.40	38.39	3.15	35.24
FEB	0.00	20.02	9.37	0.00	14.41	43.80	2.58	41.22
MAR	6.23	10.02	20.92	0.00	15.43	52.60	3.61	48.99
APR	0.00	12.06	0.00	10.80	21.93	44.79	2.53	42.26
MAY	0.93	26.33	0.00	26.75	5.00	59.01	2.64	56.37
JUN	2.71	17.64	0.00	31.50	9.70	61.55	3.23	58.32
TOTAL	21.90	231.64	74.21	69.05	278.05	674.85	38.03	636.82
% MONTHLY TOTAL	4.40%	28.66%	0.00%	51.18%	15.76%	100.00%	5.25%	0.00%
% ANNUAL TO DATE TOTAL	3.2%	34.3%	11.0%	10.2%	41.2%	100.0%	5.64%	94.4%
% TOTAL	4.4%	28.7%	0.0%	51.2%	15.8%	100.0%	5.25%	0.0%

Monthly Production FY 18 vs FY 19



Cumulative Production FY 18 vs FY19



TOTAL CCWD PRODUCTION (MG) ALL SOURCES- FY 2019

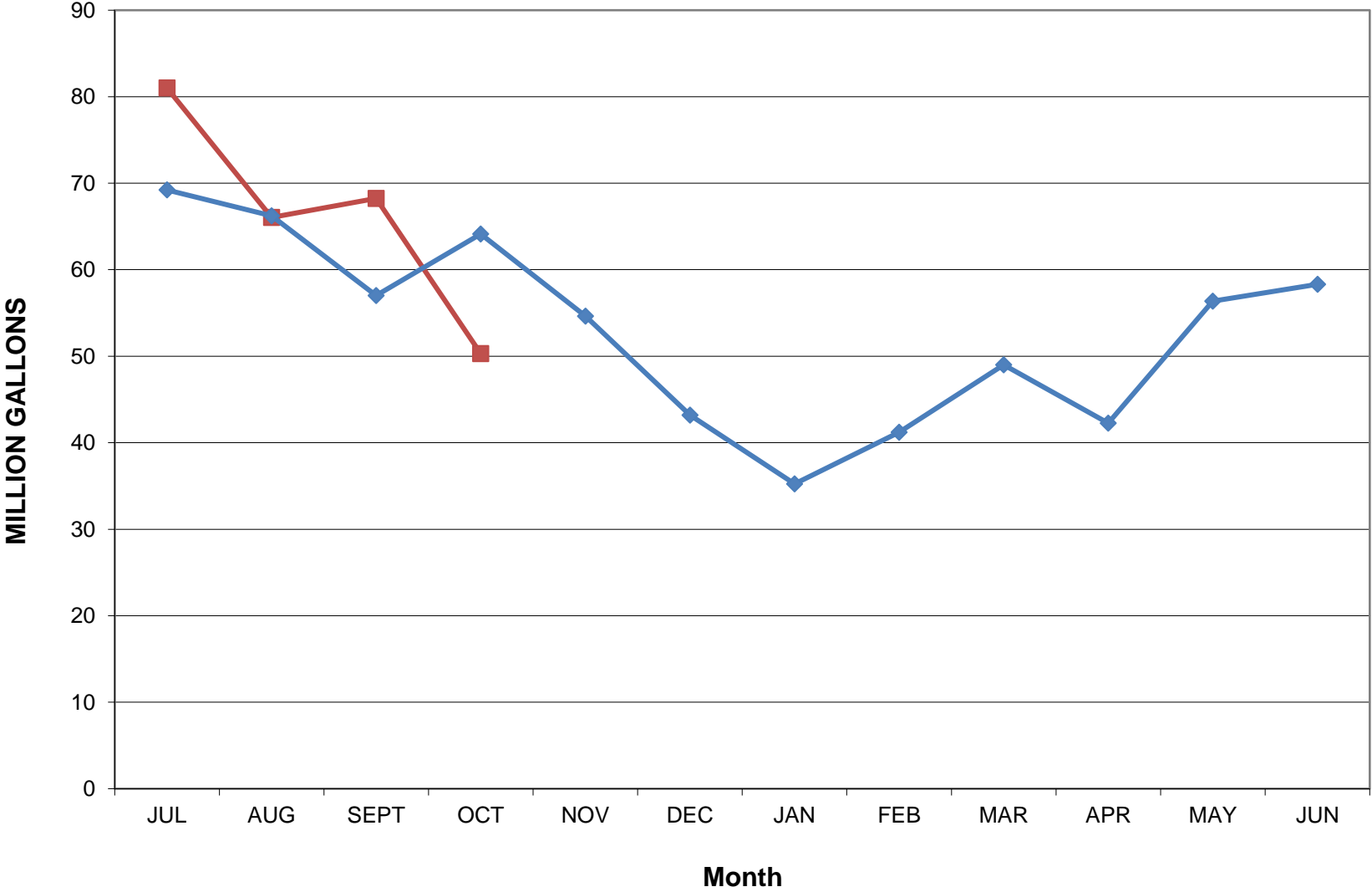
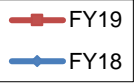
	CCWD Sources			SFPUC Sources		RAW WATER TOTAL	UNMETERED WATER	TREATED TOTAL
	DENNISTON WELLS	DENNISTON RESERVOIR	PILARCITOS WELLS	PILARCITOS LAKE	CRYSTAL SPRINGS RESERVOIR			
JUL	2.36	13.98	0.00	37.74	30.90	84.98	3.98	81.00
AUG	0.62	3.36	0.00	27.20	36.80	67.98	1.94	66.04
SEPT	0.00	0.00	0.00	30.48	39.24	69.72	1.48	68.24
OCT	0.00	0.00	0.00	22.98	37.51	60.49	2.09	50.29
NOV								
DEC								
JAN								
FEB								
MAR								
APR								
MAY								
JUN								
TOTAL	2.98	17.34	0.00	118.40	144.45	283.17	9.49	265.57
% MONTHLY TOTAL	0.0%	0.0%	0.0%	38.0%	62.0%	100.0%	3.5%	83.1%
% ANNUAL TO DATE TOTAL	1.1%	6.1%	0.0%	41.8%	51.0%	100.0%	3.4%	93.8%

CCWD vs SFPUC- month 0.0% 100.0%
 CCWD vs SFPUC- annual 7.2% 92.8%

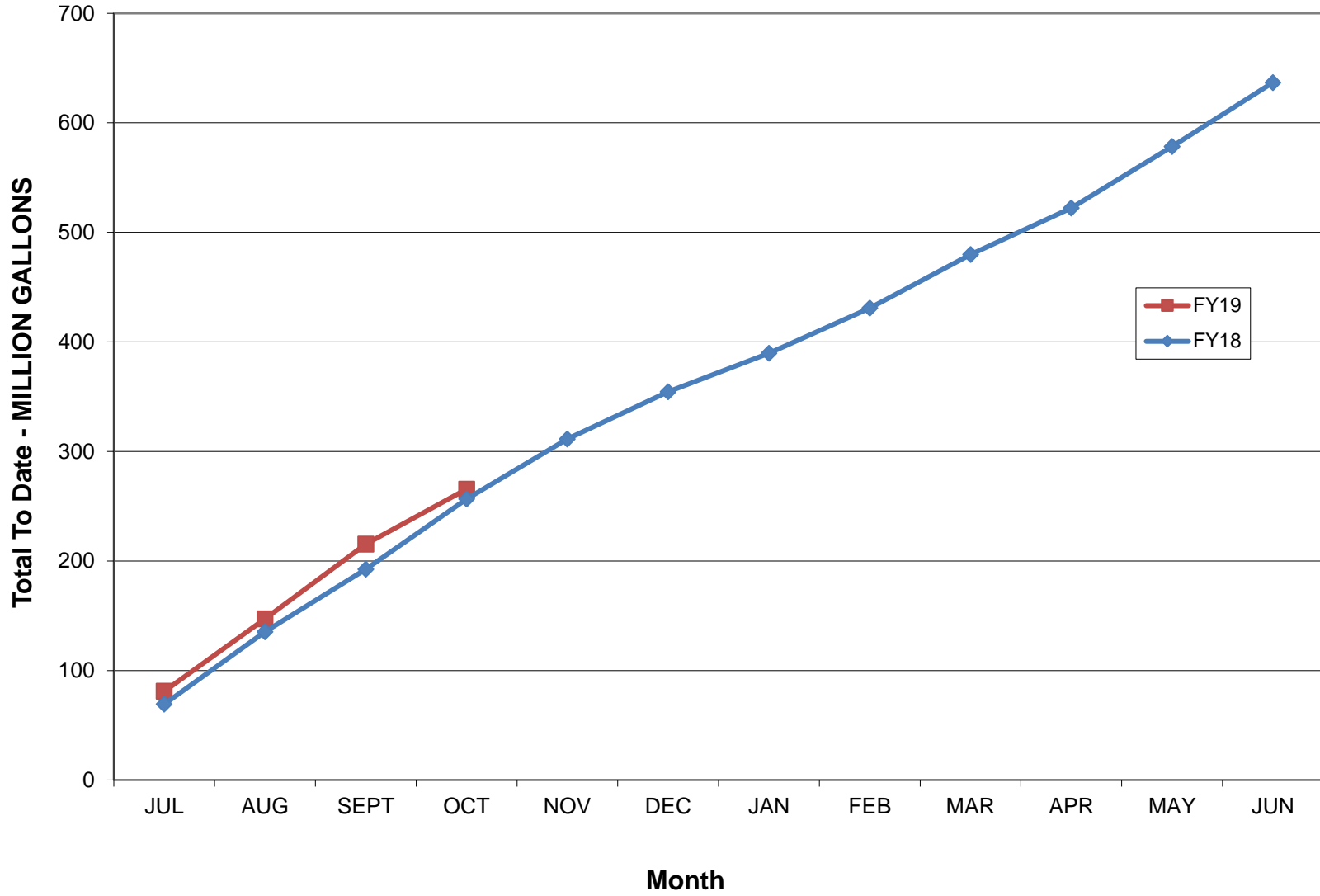
12 Month Running Treated Total **582.13**
TOTAL CCWD PRODUCTION (MG) ALL SOURCES- FY 2018

	CCWD Sources			SFPUC Sources		RAW WATER TOTAL	UNMETERED WATER	TREATED TOTAL
	DENNISTON WELLS	DENNISTON RESERVOIR	PILARCITOS WELLS	PILARCITOS LAKE	CRYSTAL SPRINGS RESERVOIR			
JUL	0.87	25.93	0.00	0.00	45.87	72.67	3.45	69.22
AUG	2.32	24.89	0.00	0.00	42.86	70.07	3.85	66.22
SEPT	2.21	19.72	0.00	0.00	38.88	60.81	3.80	57.01
OCT	1.63	15.79	0.00	0.00	50.08	67.50	3.37	64.13
NOV	4.82	21.54	18.4	0.00	12.45	57.21	2.57	54.64
DEC	0.09	22.00	14.32	0.00	10.04	46.45	3.25	43.20
JAN	0.09	15.70	11.20	0.00	11.40	38.39	3.15	35.24
FEB	0.00	20.02	9.37	0.00	14.41	43.80	2.58	41.22
MAR	6.23	10.02	20.92	0.00	15.43	52.60	3.61	48.99
APR	0.00	12.06	0.00	10.80	21.93	44.79	2.53	42.26
MAY	0.93	26.33	0.00	26.75	5.00	59.01	2.64	56.37
JUN	2.71	17.64	0.00	31.50	9.70	61.55	3.23	58.32
TOTAL	21.90	231.64	74.21	69.05	278.05	674.85	38.03	636.82
% MONTHLY TOTAL	4.40%	28.66%	0.00%	51.18%	15.76%	100.00%	5.25%	94.75%
% ANNUAL TO DATE TOTAL	3.2%	34.3%	11.0%	10.2%	41.2%	100.0%	5.64%	94.4%
% TOTAL	4.4%	28.7%	0.0%	51.2%	15.8%	100.0%	5.25%	94.8%

Monthly Production FY 18 vs FY 19



Cumulative Production FY 18 vs FY19



**Coastside County Water District Monthly Sales By Category (MG)
FY2019**

	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	MG to Date
RESIDENTIAL	21.678	40.757	21.103										83.54
COMMERCIAL	3.609	2.866	3.937										10.41
RESTAURANT	1.749	1.600	1.657										5.01
HOTELS/MOTELS	2.642	2.910	2.723										8.28
SCHOOLS	0.759	0.765	0.982										2.51
MULTI DWELL	2.698	2.669	2.633										8.00
BEACHES/PARKS	0.777	0.522	0.577										1.88
AGRICULTURE	9.217	5.454	8.844										23.52
RECREATIONAL	0.236	0.265	0.237										0.74
MARINE	0.635	0.589	0.637										1.86
IRRIGATION	7.926	8.990	5.611										22.53
DETECTOR CHECKS	0.040	0.066	0.079										0.19
RAW WATER	8.971	6.974	8.488										24.43
PORTABLE METERS	0.109	0.611	0.393										1.11
CONSTRUCTION	0.153	0.194	0.138										0.49
TOTAL - MG	61.20	75.23	58.04										194.47

Non Residential Usage 39.52 34.48 36.94
Running 12 Month Total **621.11**
12 mo Residential **315.55**
12 mo Non Residential **305.56**

FY2018

	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	MG to Date
RESIDENTIAL	20.823	40.192	21.242	40.000	18.734	31.360	17.800	29.710	14.860	26.671	16.854	36.024	314.27
COMMERCIAL	3.369	3.103	3.521	2.770	3.543	2.340	3.032	2.330	2.536	2.398	2.978	2.916	34.84
RESTAURANT	1.783	1.563	1.745	1.450	1.601	1.170	1.572	1.200	1.285	1.320	1.481	1.536	17.71
HOTELS/MOTELS	2.762	2.777	2.388	2.290	2.412	1.650	2.079	2.020	1.774	2.311	2.299	2.501	27.26
SCHOOLS	0.567	0.735	0.934	0.810	0.604	0.420	0.540	0.310	0.285	0.278	0.803	0.910	7.20
MULTI DWELL	2.768	3.107	2.817	3.100	2.660	2.760	2.671	2.780	2.296	2.853	2.518	3.076	33.41
BEACHES/PARKS	0.554	0.589	0.708	0.530	0.340	0.090	0.178	0.140	0.135	0.156	0.316	0.481	4.22
AGRICULTURE	6.107	6.007	8.518	7.420	6.220	6.520	4.656	6.300	5.309	6.417	5.130	7.271	75.87
RECREATIONAL	0.266	0.354	0.215	0.320	0.197	0.290	0.215	0.290	0.169	0.267	0.192	0.245	3.02
MARINE	0.597	0.666	0.640	0.440	0.653	0.590	0.446	0.330	0.323	0.305	0.419	0.383	5.79
IRRIGATION	6.166	5.258	1.570	2.250	0.986	0.880	0.767	0.850	0.536	0.500	1.113	5.620	26.50
RAW WATER	8.783	10.435	7.389	8.250	4.969	0.010	0.013	1.700	0.011	3.064	2.520	0.064	47.21
DETECTOR CHECKS	0.019	0.044	0.022	0.030	0.002	0.030	0.016	0.050	0.021	0.037	0.034	6.858	7.16
PORTABLE METERS	0.267	0.248	0.323	0.290	0.203	0.190	0.041	0.150	0.090	0.306	0.197	0.403	2.71
CONSTRUCTION	NA	NA	NA	NA	0.108	0.270	0.188	0.150	0.142	0.202	0.144	0.218	1.42
TOTAL - MG	54.83	75.08	52.03	69.95	43.23	48.57	34.21	48.31	29.77	47.09	37.00	68.51	608.58

**Coastside County Water District Monthly Sales By Category (MG)
FY2019**

	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	MG to Date
RESIDENTIAL	21.678	40.757	21.103	37.146									120.68
COMMERCIAL	3.609	2.866	3.937	2.778									13.19
RESTAURANT	1.749	1.600	1.657	1.277									6.28
HOTELS/MOTELS	2.642	2.910	2.723	2.121									10.40
SCHOOLS	0.759	0.765	0.982	0.869									3.38
MULTI DWELL	2.698	2.669	2.633	2.582									10.58
BEACHES/PARKS	0.777	0.522	0.577	0.378									2.25
AGRICULTURE	9.217	5.454	8.844	5.760									29.28
RECREATIONAL	0.236	0.265	0.237	0.233									0.97
MARINE	0.635	0.589	0.637	0.468									2.33
IRRIGATION	7.926	8.990	5.611	2.210									24.74
DETECTOR CHECKS	0.040	0.066	0.079	0.021									0.21
RAW WATER	8.971	6.974	8.488	8.580									33.01
PORTABLE METERS	0.109	0.611	0.393	0.436									1.55
CONSTRUCTION	0.153	0.194	0.138	0.129									0.61
TOTAL - MG	61.20	75.23	58.04	64.99									259.46

Non Residential Usage 39.52 34.48 36.94 27.84
Running 12 Month Total 616.14
 12 mo Residential **312.70**
 12 mo Non Residential **303.45**

FY2018

	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	MG to Date
RESIDENTIAL	20.823	40.192	21.242	40.000	18.734	31.360	17.800	29.710	14.860	26.671	16.854	36.024	314.27
COMMERCIAL	3.369	3.103	3.521	2.770	3.543	2.340	3.032	2.330	2.536	2.398	2.978	2.916	34.84
RESTAURANT	1.783	1.563	1.745	1.450	1.601	1.170	1.572	1.200	1.285	1.320	1.481	1.536	17.71
HOTELS/MOTELS	2.762	2.777	2.388	2.290	2.412	1.650	2.079	2.020	1.774	2.311	2.299	2.501	27.26
SCHOOLS	0.567	0.735	0.934	0.810	0.604	0.420	0.540	0.310	0.285	0.278	0.803	0.910	7.20
MULTI DWELL	2.768	3.107	2.817	3.100	2.660	2.760	2.671	2.780	2.296	2.853	2.518	3.076	33.41
BEACHES/PARKS	0.554	0.589	0.708	0.530	0.340	0.090	0.178	0.140	0.135	0.156	0.316	0.481	4.22
AGRICULTURE	6.107	6.007	8.518	7.420	6.220	6.520	4.656	6.300	5.309	6.417	5.130	7.271	75.87
RECREATIONAL	0.266	0.354	0.215	0.320	0.197	0.290	0.215	0.290	0.169	0.267	0.192	0.245	3.02
MARINE	0.597	0.666	0.640	0.440	0.653	0.590	0.446	0.330	0.323	0.305	0.419	0.383	5.79
IRRIGATION	6.166	5.258	1.570	2.250	0.986	0.880	0.767	0.850	0.536	0.500	1.113	5.620	26.50
RAW WATER	8.783	10.435	7.389	8.250	4.969	0.010	0.013	1.700	0.011	3.064	2.520	0.064	47.21
DETECTOR CHECKS	0.019	0.044	0.022	0.030	0.002	0.030	0.016	0.050	0.021	0.037	0.034	6.858	7.16
PORTABLE METERS	0.267	0.248	0.323	0.290	0.203	0.190	0.041	0.150	0.090	0.306	0.197	0.403	2.71
CONSTRUCTION	NA	NA	NA	NA	0.108	0.270	0.188	0.150	0.142	0.202	0.144	0.218	1.42
TOTAL - MG	54.83	75.08	52.03	69.95	43.23	48.57	34.21	48.31	29.77	47.09	37.00	68.51	608.58

September 2018 Discharge/Leak Report

	Date Reported Discovered	Date Repaired	Location	Pipe Class	Pipe Size & Type	Estimated Water Loss MG
1	9/5/2018	9/10/18	12490 San Mateo Road HMB			
				M	18" DI	0.003
2	9/11/2018	9/12/2018	200 block of Madrid Ave EG			
				M	2" Galv	0.003
3						
4						
5						
6						
7						
8						
Totals						0.006

OTHER DISCHARGES	
Total Volumes (MG)	
Flushing Program	0.009
Reservoir Cleaning	
Automatic Blowoffs	0.115
Dewatering Operations	0.389
Other (includes flow testing)	0.005
PLANNED DISCHARGES GRAND TOTAL (MG)	
0.518	

CCWD Monthly Leak Report - October 2018

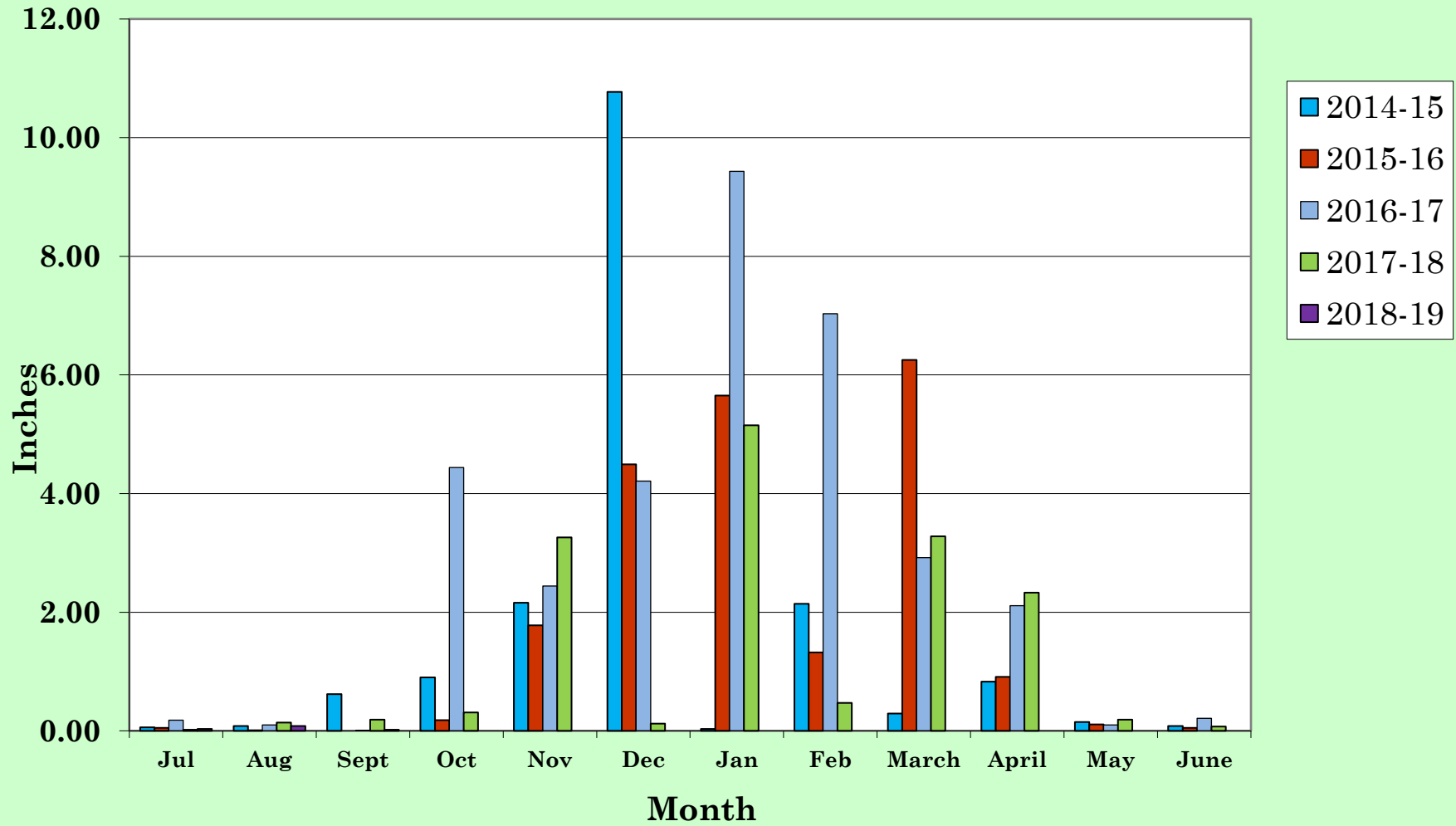
	Date Reported Discovered	Date Repaired	Location	Pipe Class	Pipe Size & Type	Estimated Water Loss MG
1	10/9/2018	10/19/18	11881 San Mateo Rd.	M	WS 12"	0.048
2						
3						
4						
5						
6						
7						
8						
Total						0.048

OTHER DISCHARGES	
Total Volumes (MG)	
Flushing Program	0.030
Reservoir Cleaning	0.014
Automatic Blowoffs	0.119
Dewatering Operations	
Other (includes flow testing)	0.007
PLANNED DISCHARGES GRAND TOTAL (MG)	
0.170	

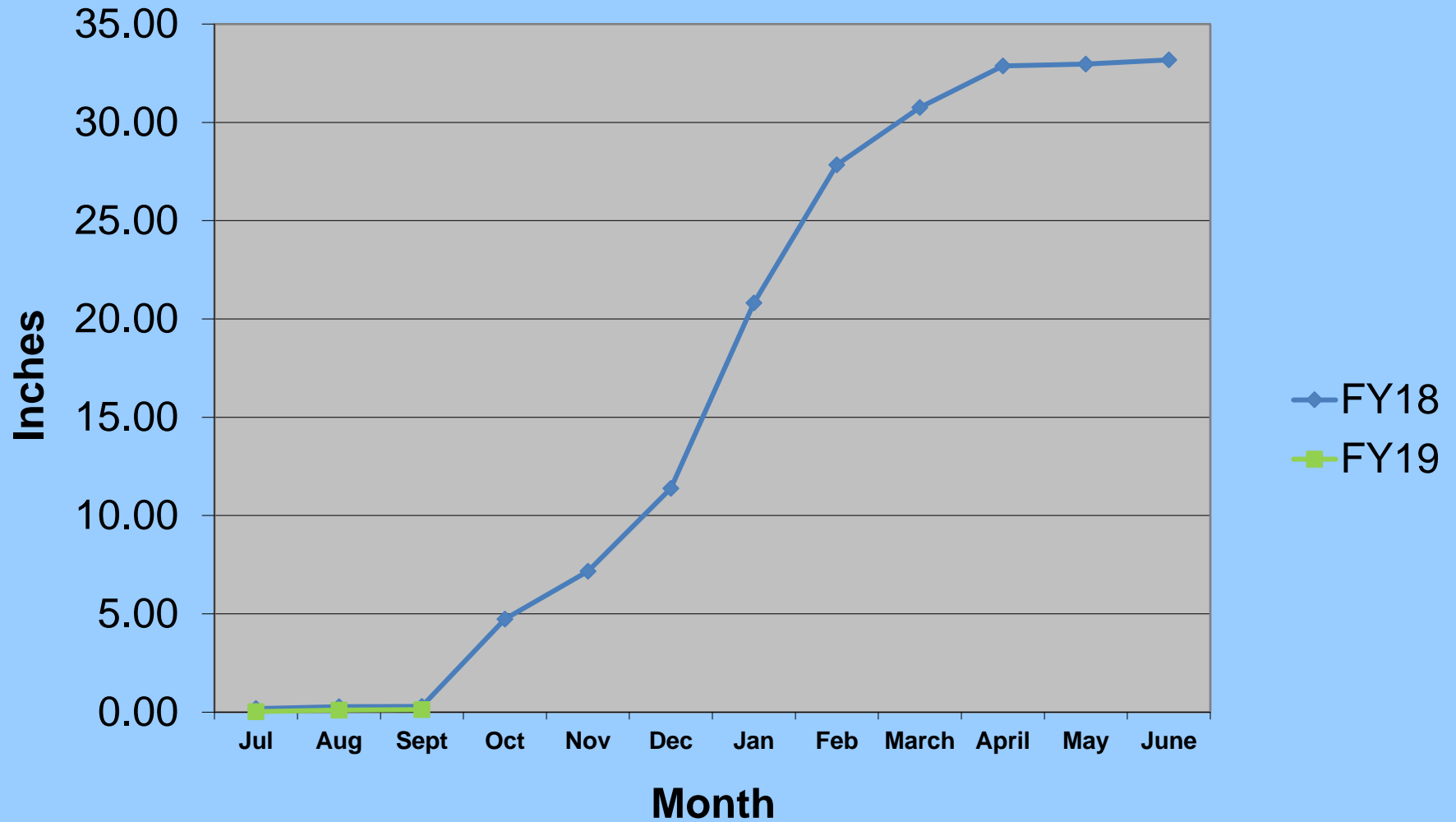
Coastside County Water District

Rainfall by Month

Fiscal Years 14 - 19

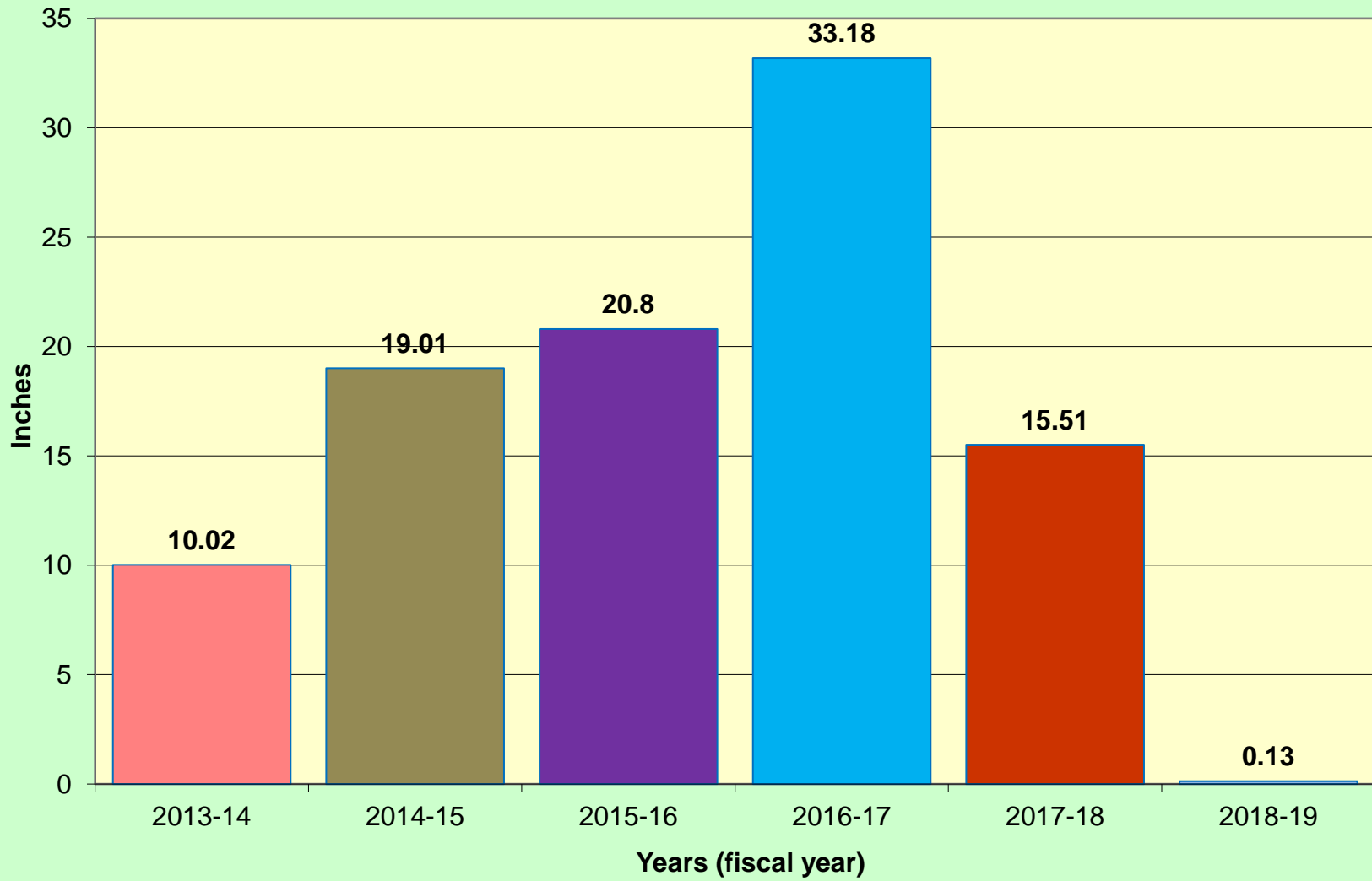


Rainfall Total Comparison Fiscal Years 18-19



Rain Totals

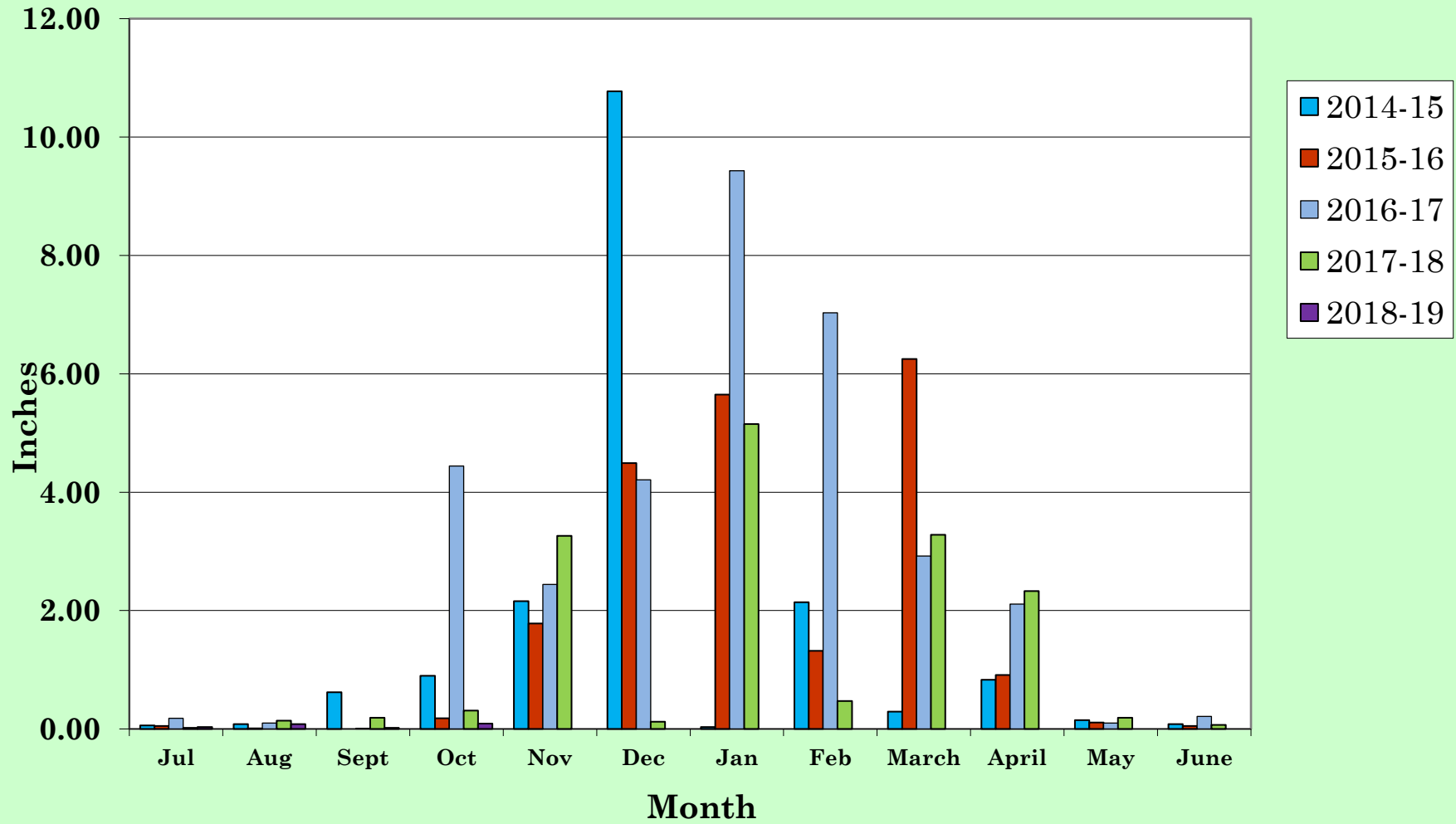
Fiscal Years 13 - 18



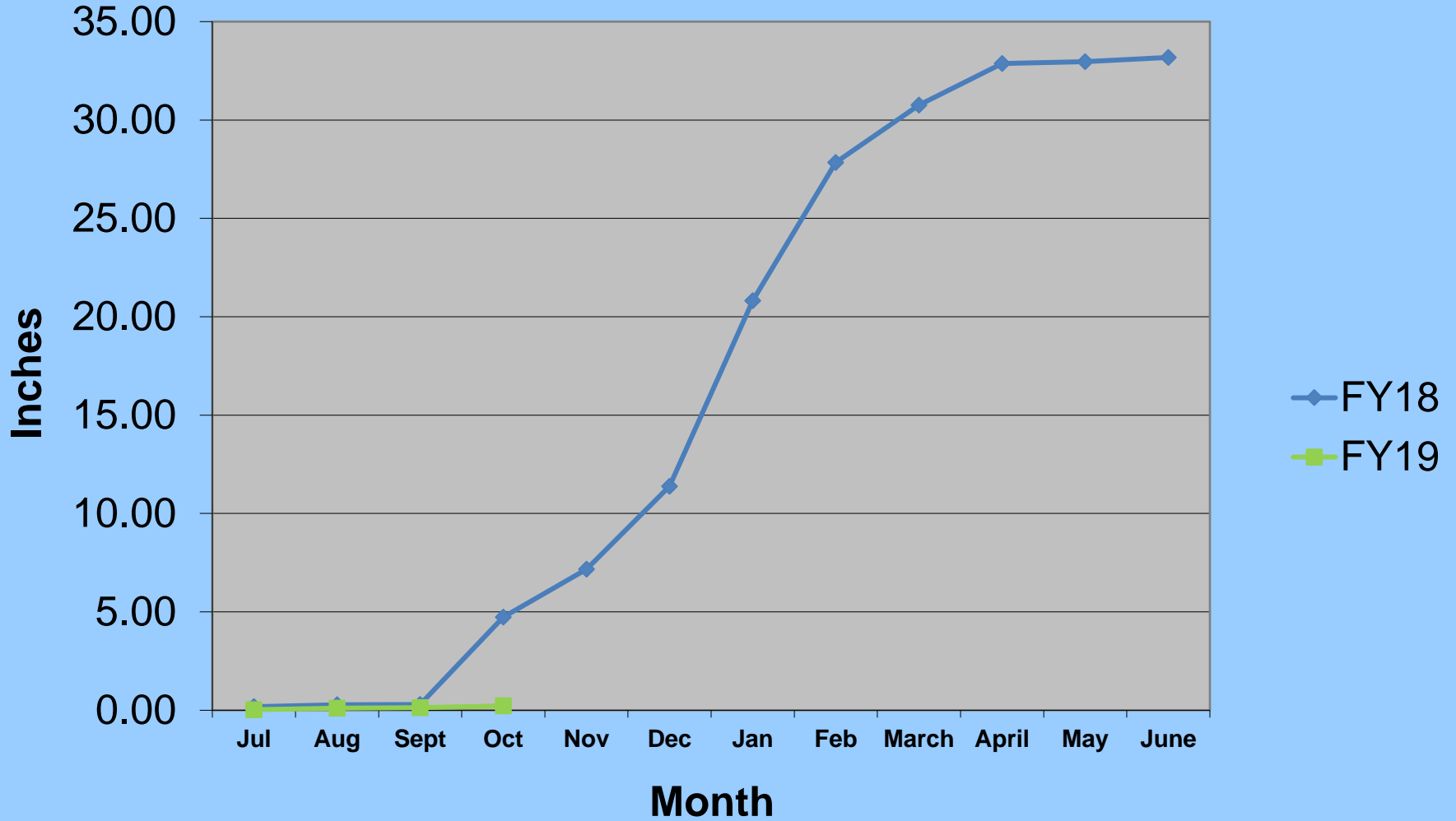
Coastside County Water District

Rainfall by Month

Fiscal Years 14 - 19

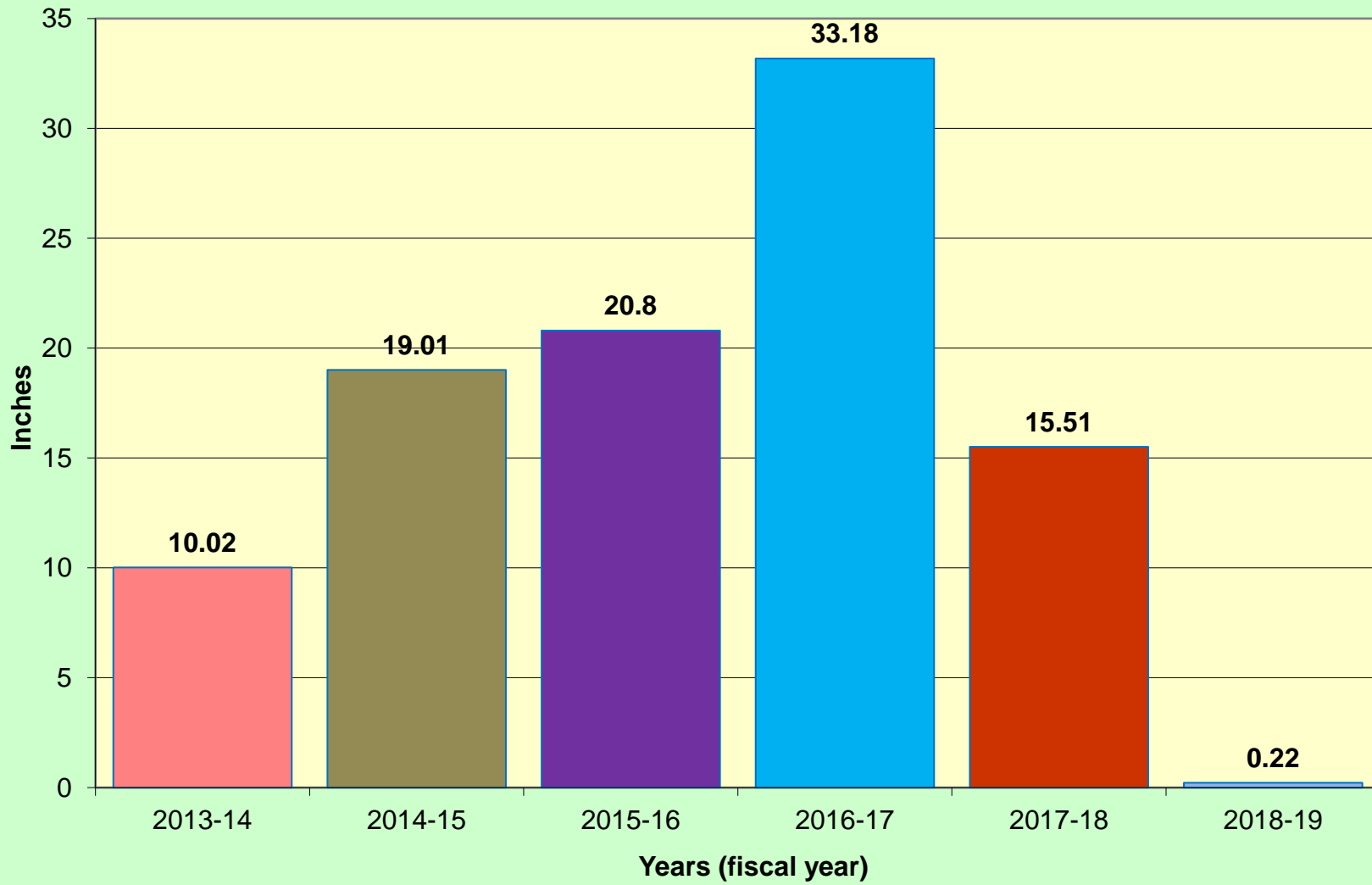


Rainfall Total Comparison Fiscal Years 18-19



Rain Totals

Fiscal Years 13 - 18



San Francisco Public Utilities Commission

Hydrological Conditions Report

August 2018

J. Chester, C. Graham, N. Waelty, & R. Walters, Sept 5, 2018



The Lyell Fork of the Tuolumne River meandering through Lyell Canyon. Fed by the Lyell Glacier, the Lyell Fork is the headwater of the Tuolumne River.

System Storage

Current Tuolumne System and Local Bay Area storage conditions are summarized in Table 1.

Table 1 Current Storage As of September 1, 2018							
Reservoir	Current Storage		Maximum Storage		Available Capacity		Percentage of Maximum Storage
	Acre-Feet	Millions of Gallons	Acre-Feet	Millions of Gallons	Acre-Feet	Millions of Gallons	
Tuolumne System							
Hetch Hetchy ¹	315,822		360,360		44,538		88%
Cherry ²	224,053		268,810		44,757		83%
Eleanor ³	22,425		27,100		4,675		83%
Water Bank	570,000		570,000		0		100%
Tuolumne Storage	1,132,300		1,226,270		93,970		92%
Local Bay Area Storage							
Calaveras ⁵	23,647	7,705	96,824	31,550	73,177	23,845	24%
San Antonio	48,149	15,689	50,496	16,454	2,346	765	95%
Crystal Springs	54,129	17,638	58,377	19,022	4,247	1,384	93%
San Andreas	17,628	5,744	18,996	6,190	1,369	446	93%
Pilarcitos	2,511	818	2,995	976	484	158	84%
Total Local Storage	146,064	47,595	227,688	74,192	81,623	26,597	64%
Total System	1,278,364		1,453,957		175,593		88%

¹ Maximum Hetch Hetchy Reservoir storage with drum gates activated.

² Maximum Cherry Lake storage with flash-boards removed.

³ Maximum Lake Eleanor storage with flash-boards installed.

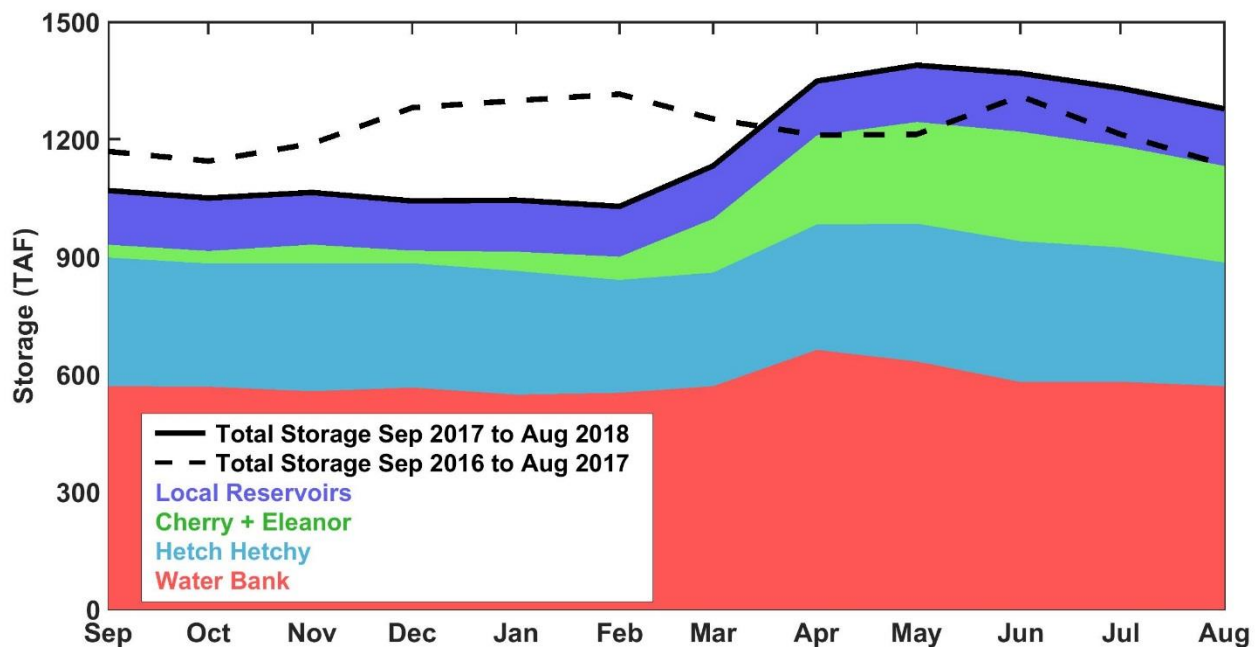


Figure 1: Monthly system storage for past 12 months in thousand acre-feet (TAF). Color bands show relative contributions to total system storage. Solid black line shows total system storage for the past 12 months. Dashed black line shows total system storage the previous 12 months.

Hetch Hetchy System Precipitation Index⁶

Current Month: The August 2018 six-station precipitation index was 0.00 inches, or 0% of the average index for the month.

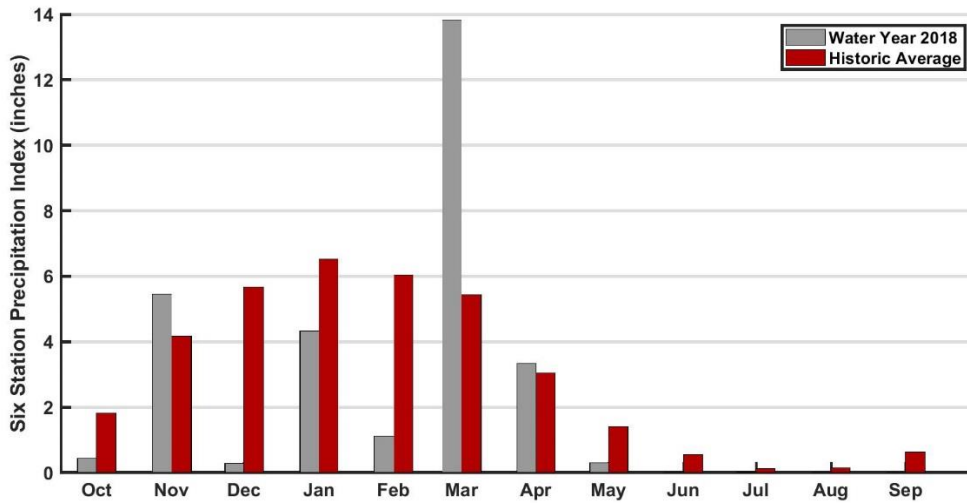


Figure 2: Monthly distribution of the Hetch Hetchy six-station precipitation index as percent of the annual average precipitation, as of September 1, 2018.

Cumulative Precipitation to Date: As of September 1st, the six-station precipitation index for Water Year 2018 was 29.11 inches, which is 82% of the average annual water year total, or 83% of the average season-to-date precipitation. Hetch Hetchy received 0.00 inches of precipitation in August, for a total of 32.25 inches for Water Year 2018. The cumulative Hetch Hetchy precipitation is shown in Figure 3 in red.

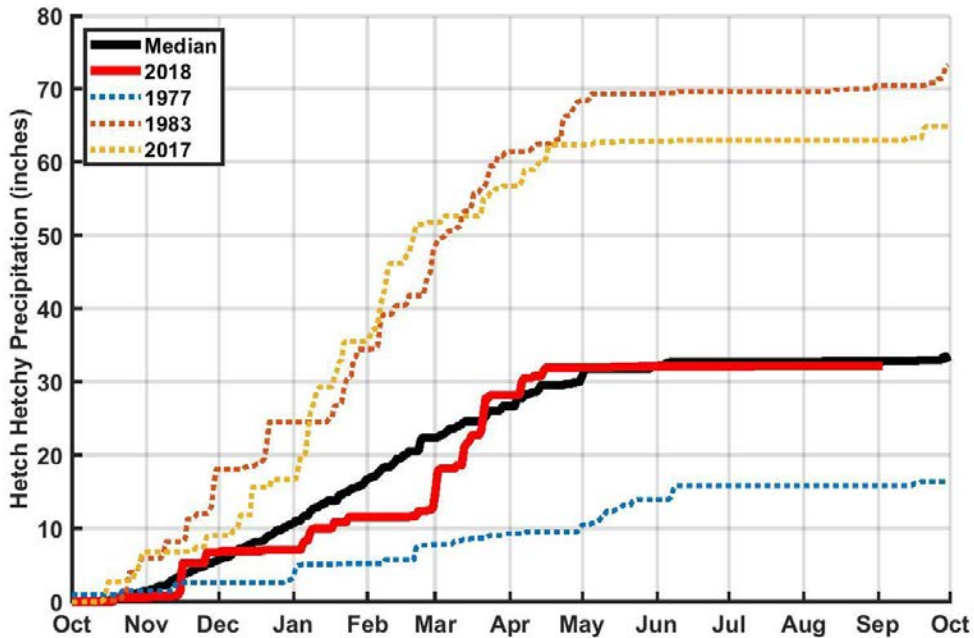


Figure 3: Water year 2018 cumulative precipitation measured at Hetch Hetchy Reservoir through September 1, 2018. Precipitation at the Hetch Hetchy gauge for wet, dry, median, and WY 2017 are included for comparison purposes.

⁶The precipitation index is computed using six Sierra precipitation stations and is an indicator of the wetness of the basin for the water year to date. The index is computed as the average of the six stations and is expressed in inches and in percent.

Tuolumne Basin Unimpaired Inflow

Unimpaired inflow to SFPUC reservoirs and the Tuolumne River at La Grange as of September 1, 2018 is summarized below in Table 2.

*All flows are in acre feet	August 2018				October 1, 2017 through August 31, 2018			
	Observed Flow	Median ⁷	Mean ⁷	Percent of Mean	Observed Flow	Median ⁷	Mean ⁷	Percent of Mean
Inflow to Hetch Hetchy Reservoir	4,304	7,010	13,803	31%	646,500	699,972	732,224	88%
Inflow to Cherry Lake and Lake Eleanor	-1,678	1,654	3,225	-52%	408,074	442,832	450,150	91%
Tuolumne River at LaGrange	21,205	15,869	24,562	86%	1,660,264	1,670,349	1,803,156	92%
Water Available to City	0	0	1,375	0%	666,636	580,260	764,469	87%

⁷Hydrologic Record: 1919 – 2015

⁸Negative inflows are due to uncertainties in evaporation, flows and reservoir rating curves

Hetch Hetchy System Operations

Power draft and stream releases from Hetch Hetchy Reservoir during the month of August totaled 31,373 acre-feet. Total inflows as of September 1st results in a Water Year Type A (normal to wet conditions) for Hetch Hetchy Reservoir through January 1st, 2019. This year type is based on accumulated runoff from October 1st, 2017 through August 31st, 2018. Hetch Hetchy minimum instream release requirements for August were 125 cfs, and for September are 100 cfs until September 15th at which point they will decrease to 80 cfs. Current Hetch Hetchy releases are equal to minimum environmental releases and water deliveries to the City.

Power draft and valve releases from Cherry Lake totaled 9,804 acre-feet during the month of August. The required minimum instream release from Cherry Lake is 15 cfs through September 30th, 2018. Required minimum release from Lake Eleanor (due to pumping) is 20 cfs through September 15th after which it drops to 10 cfs. Transfer from Lake Eleanor to Cherry Lake ended on June 25.

Regional System Treatment Plant Production

The Harry Tracy Water Treatment Plant average production rate for August was 29 MGD. The Sunol Valley Water Treatment Plant was on standby for the month and no water production occurred.

Local System Water Delivery

The average August delivery rate was 237 MGD which is less than a 1% decrease below the July delivery rate of 238 MGD.

Local Precipitation

Seasonably dry conditions characterized the month's weather. The rainfall summary for August is presented in Table 3.

Reservoir	Month Total (inches)	Percentage of Average for the Month	Water Year to Date ⁹ (inches)	Percentage of Average for the Year-to-Date ⁹
Pilarcitos	0.01	13 %	29.03	78 %
Lower Crystal Springs	0.00	0 %	19.78	76 %
Calaveras	0.00	0 %	14.03	66 %

⁹ WY 2018: Oct. 2017 through Sep. 2018.

Water Supply

Inflows at all upcountry reservoirs continued to recede throughout the month of August. Hetch Hetchy Reservoir storage remains within seasonal targets and is drafting according to instream and water delivery demands. At Cherry Lake, storage is near the seasonal target with recreational releases concluding after Labor Day. Total Tuolumne system storage is at 92%. Water Bank was full throughout August and its maximum value reset back to 570,000 acre-feet after Don Pedro receded below flood storage targets on August 5th. SFPUC releases in excess of unimpaired flows at LaGrange resulted in a saturation, or “spilling” of Water Bank, which is expected to remain full or near full throughout the remainder of the water year.

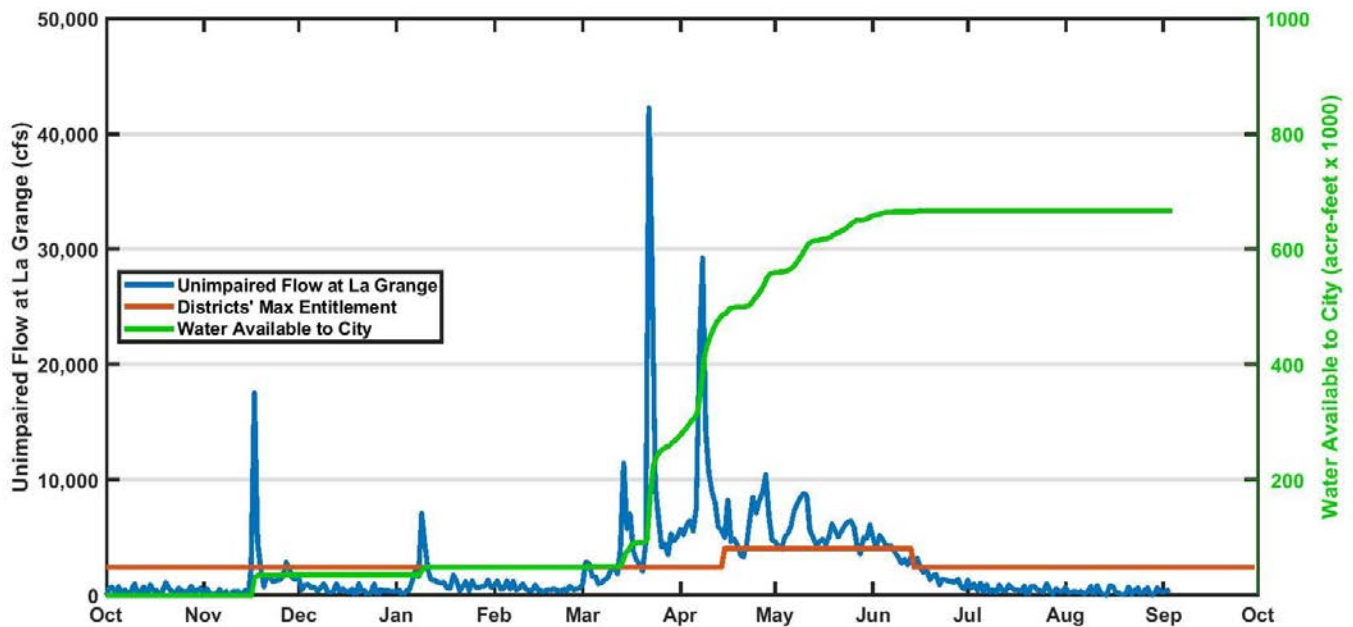


Figure 5: Calculated unimpaired flow at La Grange and the allocation of flows between the Districts and the City. Current Water Available to the City is 666,636 acre-feet in WY2018.

San Francisco Public Utilities Commission

Hydrological Conditions Report

September 2018

J. Chester, C. Graham, N. Waelty, October 3, 2018



Elizabeth Lake above Tuolumne Meadows in the Tuolumne River Watershed

System Storage

Current Tuolumne System and Local Bay Area storage conditions are summarized in Table 1.

Table 1 Current System Storage As of October 1, 2018							
Reservoir	Current Storage		Maximum Storage		Available Capacity		Percentage of Maximum Storage
	acre-feet	millions of gallons	acre-feet	millions of gallons	acre-feet	millions of gallons	
Tuolumne System							
Hetch Hetchy ¹	293,312		340,830		48,070		86%
Cherry ²	223,051		268,810		45,425		83%
Eleanor ³	20,142		21,495		1,714		94%
Water Bank	569,824		570,000		176		100%
Tuolumne Storage	1,106,329		1,201,135		95,385		92%
Local Bay Area Storage							
Calaveras ⁴	23,303	7,593	96,824	31,550	73,521	23,957	24%
San Antonio	47,008	15,318	50,496	16,454	3,488	1,137	93%
Crystal Springs	53,138	17,315	58,377	19,022	5,238	1,707	91%
San Andreas	16,501	5,377	18,996	6,190	2,495	813	87%
Pilarcitos	2,381	776	2,995	976	614	200	80%
Total Local Storage	142,331	46,379	227,688	74,192	85,356	27,813	63%
Total System	1,248,660		1,428,822		180,741		87%

¹ Maximum Hetch Hetchy Reservoir storage with drum gates deactivated.

² Maximum Cherry Reservoir storage with flash-boards removed.

³ Maximum Lake Eleanor storage with flash-boards removed.

⁴ Available capacity does not take into account current DSOD storage restrictions.

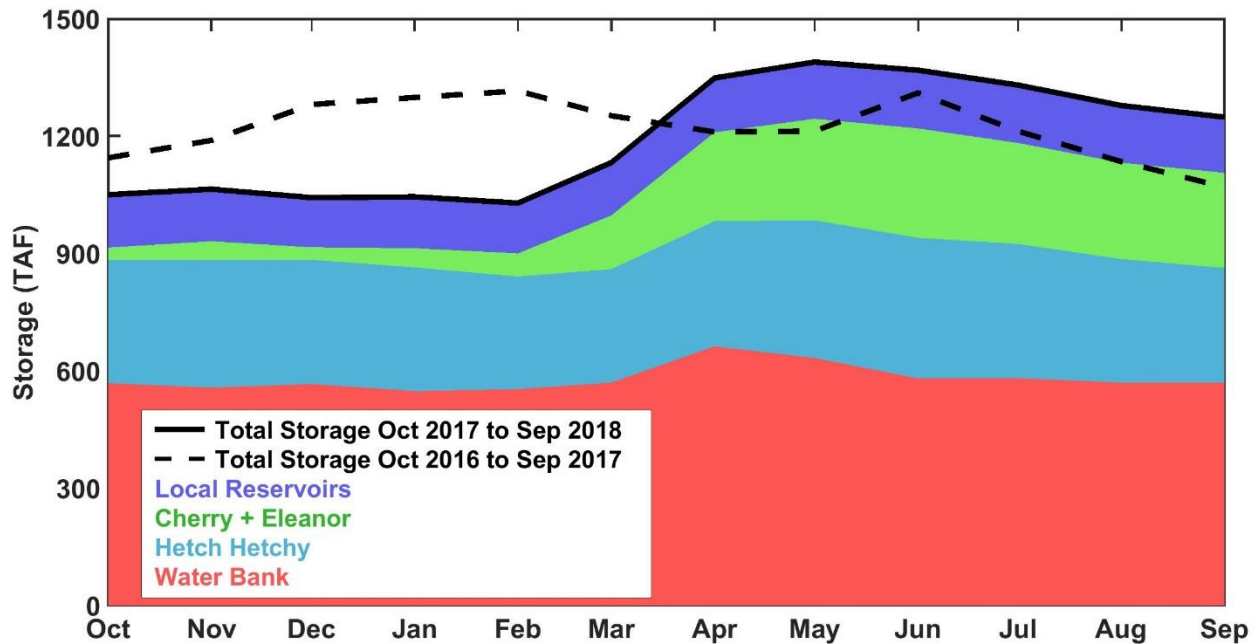


Figure 1: Monthly system storage for past 12 months in thousand acre-feet (TAF). Color bands show contributions to total system storage. Solid black line shows total system storage for the past 12 months. Dashed black line shows total system storage the previous 12 months.

Hetch Hetchy System Precipitation Index

Current Month: The September 2018 six-station precipitation index was 0.06 inches, or 9% of the average index for the month (Figure 2). The precipitation index is computed as the average of six Sierra precipitation stations and is an indicator of the overall basin wetness. Hetch Hetchy received 0.20 inches of precipitation in September (Figure 3, in red).

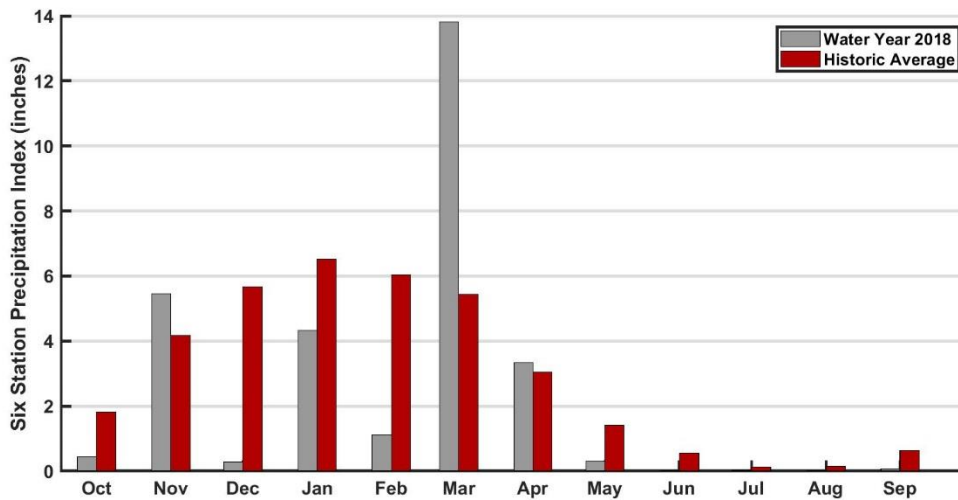


Figure 2: Monthly distribution of the six-station precipitation index for Water Year 2018.

Cumulative Precipitation to Date: The Water Year 2018 (WY 2018; October 1st, 2017 to September 30th, 2018) six-station precipitation index was 29.18 inches, which is 82% of the average annual water year total. Water Year 2018 total precipitation at Hetch Hetchy was 32.45 inches, or 90% of average.

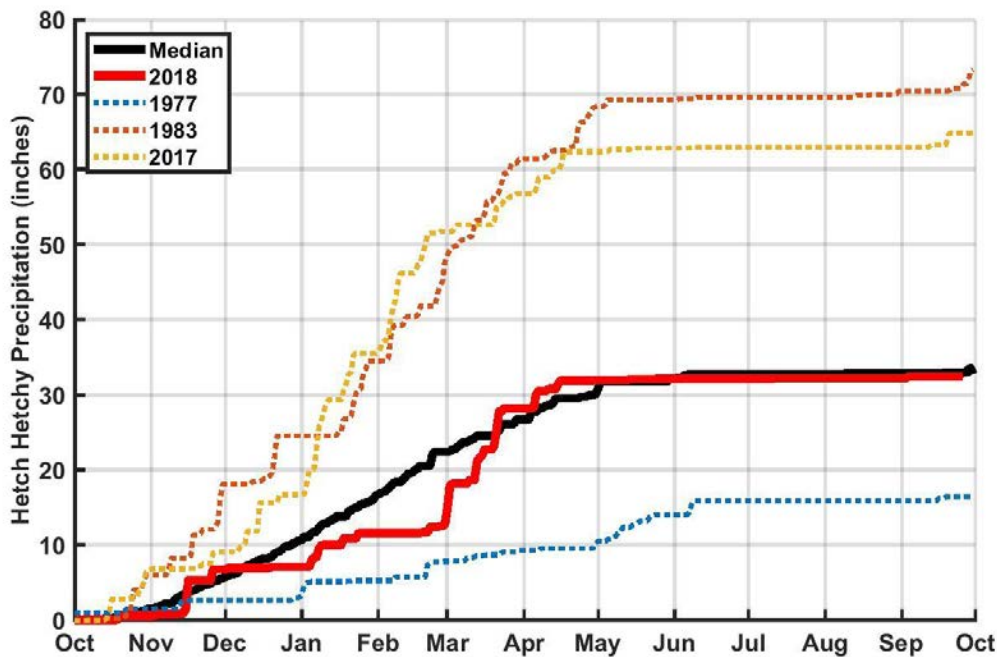


Figure 3: Water year 2018 cumulative precipitation measured at Hetch Hetchy Reservoir. Median cumulative precipitation at Hetch Hetchy and example wet and dry years are included with WY 2017 and WY 2018 for comparison purposes.

Tuolumne Basin Unimpaired Inflow

Unimpaired inflow to SFPUC reservoirs and the Tuolumne River at La Grange for September and WY 2018 is summarized below in Table 2.

Table 2								
Calculated reservoir inflows and Water Available to City								
*All flows are in acre feet	September 2018				WY 2018			
	Observed Flow	Median ¹	Mean ¹	Percent of Mean	Observed Flow	Median ¹	Mean ¹	Percent of Mean
Inflow to Hetch Hetchy Reservoir	1,359	3,070	4,821	28%	647,859	703,453	737,009	88%
Inflow to Cherry Reservoir and Lake Eleanor	-815 ²	803	1,905	-43% ²	407,259	445,183	452,050	90%
Tuolumne River at LaGrange	17,034	7,169	11,203	152%	1,677,298	1,676,737	1,814,284	92%
Water Available to City	0	0	883	0%	666,636	580,260	765,361	87%

¹Hydrologic Record: 1919 – 2015

²Negative inflows are due to uncertainties in evaporation, flows and reservoir rating curves

Hetch Hetchy System Operations

Power draft and stream releases from Hetch Hetchy Reservoir during the month of September totaled 24,811 acre-feet. Total inflows as of September 1st results in a Water Year Type A (normal to wet conditions) for Hetch Hetchy Reservoir through January 1st, 2019. Hetch Hetchy minimum instream release requirements for September 1-14th were 100 cfs, and September 15-30th were 80 cfs. Instream release requirements for October and November are 60 cfs. Current Hetch Hetchy releases are equal to minimum environmental releases and water deliveries to the City.

Power draft and valve releases from Cherry Reservoir totaled 2,053 acre-feet during the month of September. The required minimum instream release from Cherry Reservoir was 15 cfs through September 30th, 2018. Cherry Reservoir October minimum instream releases are 5 cfs. Required minimum release from Lake Eleanor (due to pumping) were 20 cfs through September 15th after which it dropped to 10 cfs. Transfer from Lake Eleanor to Cherry Reservoir started September 28th.

Regional System Treatment Plant Production

The Harry Tracy Water Treatment Plant average production rate for September was 37 MGD. The Sunol Valley Water Treatment Plant returned to service in September with an average production rate for the month of 7 MGD.

Local System Water Delivery

The average September delivery rate was 221 MGD which is a 7% decrease below the August delivery rate of 237 MGD.

Local Precipitation

Seasonably dry conditions characterized the month’s weather. The rainfall summary for September and WY 2018 are presented in Table 3.

Reservoir	September		WY 2018	
	Total (inches)	Percent of mean	Total (inches)	Percent of mean
Pilarcitos	0.00	0 %	29.03	77 %
Lower Crystal Springs	0.00	0 %	19.78	75 %
Calaveras	0.00	0 %	14.03	65 %

Water Supply

Inflows at all upcountry reservoirs continued to recede throughout the month of September. Hetch Hetchy Reservoir storage remains within seasonal targets and is drafting according to instream and water delivery demands. At Cherry Reservoir, storage is near the seasonal target with recreational releases concluding after Labor Day. Total Tuolumne system storage is at 92%. Water Bank was full throughout September and its maximum value reset back to 570,000 acre-feet after Don Pedro receded below flood storage targets on August 5th. SFPUC releases in excess of unimpaired flows at LaGrange resulted in a saturation, or “spilling” of Water Bank, which is expected to remain full or near full throughout the remainder of the water year.

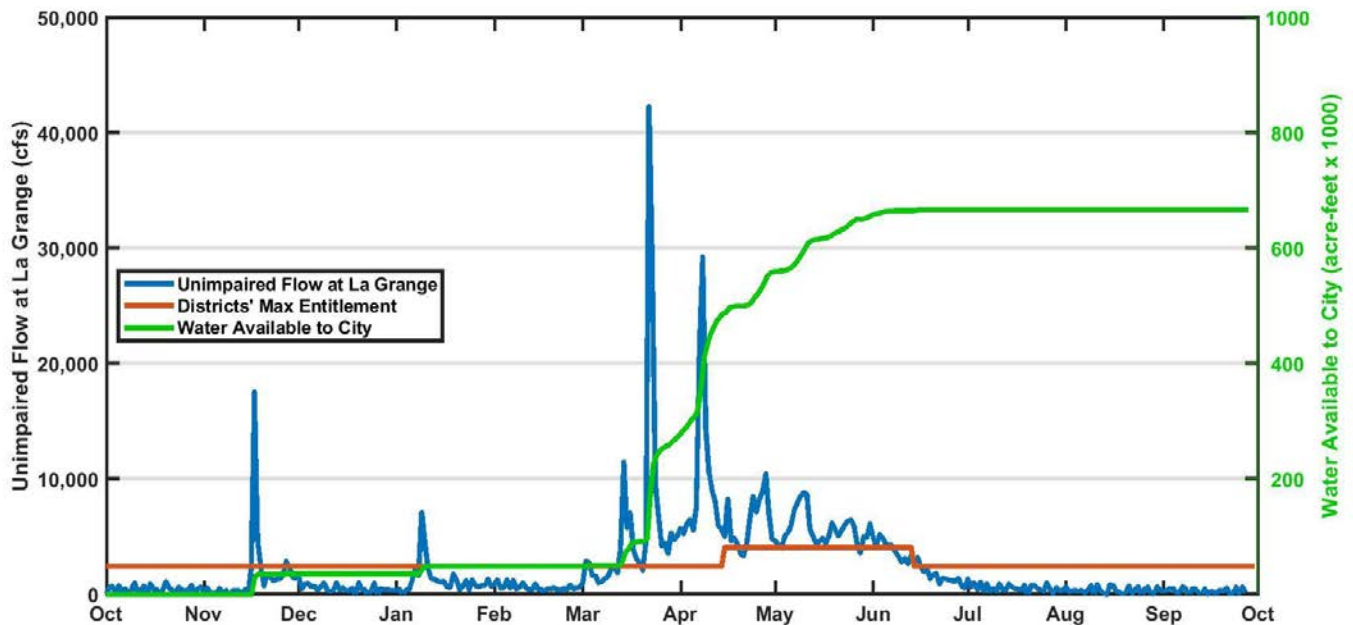


Figure 4: Calculated unimpaired flow at La Grange and the allocation of flows between the Districts and the City. Current Water Available to the City is 666,636 acre-feet in WY 2018.

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Dave Dickson, General Manager

Agenda: November 13, 2017

Date: November 5, 2018

Subject: Notice of Completion - 2 Inch Downtown Pipeline Replacement Project

Recommendation:

That the Board of Directors take the following actions:

- (1) Accept the 2 Inch Downtown Pipeline Replacement Project as complete.
- (2) Authorize the Notice of Completion to be filed with the County of San Mateo.
- (3) Authorize the release of the retention funds when the Notice of Completion has been recorded and returned to the District.

Background

Coastside County Water District entered into a contract with Andreini Bros., Inc. on November 17, 2017 for the 2 Inch Downtown Pipeline Replacement Project.

The work consisted of approximately 2,720 feet of 6-inch diameter pipelines, 3 new fire hydrants, abandonment of existing pipelines, replacement of 49 customer water service connections, reconnection of 11 customer water service connections, and asphalt concrete repaving. The site of the work is located in Half Moon Bay, California. All work was within the existing street right of way areas.

The work was completed on November 2, 2018. The project was constructed according to District specifications.

Fiscal Impact: None.

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

Name
Street
Address
City &
State

COASTSIDE COUNTY WATER DISTRICT
766 MAIN STREET
HALF MOON BAY, CA 94019

SPACE ABOVE THIS LINE FOR RECORDER'S USE

RECORD WITHOUT FEE Govt. Code § 6103 & 27383

NOTICE OF COMPLETION

1. The undersigned is an owner of an interest or estate in the hereafter described real property, the nature of which is: Fee Title

2. The full name and address of the undersigned is:

COASTSIDE COUNTY WATER DISTRICT
766 MAIN STREET
HALF MOON BAY, CALIFORNIA 94019

3. On November 2, 2018 there was completed upon the hereinafter described real property a work of improvement as a whole named 2 Inch Downtown Pipeline Replacement Project. The work consisted of approximately 2,720 feet of 6-inch diameter pipelines, 3 new fire hydrants, abandonment of existing pipelines, replacement of 49 customer water service connections, reconnection of 11 customer water service connections, and asphalt concrete repaving.

4. The name of the original contractor for the work of improvement as a whole was: Andreini Bros. Inc., 151 Main Street, Half Moon Bay, CA 94019.

5. The real property herein referred to is situated in Half Moon Bay, County of San Mateo, State of California, and described as follows:

The site of the work was in Half Moon Bay, California, San Mateo County. All work was completed within existing street right of way areas.

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

COASTSIDE COUNTY WATER DISTRICT

BY: _____
David R. Dickson, Secretary

VERIFICATION

I, David R. Dickson, declare that I am the Secretary of the Coastside County Water District and am authorized to make this verification for that reason. I have read said Notice of Completion and know the contents thereof to be true and correct.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on November 13, 2018 at Half Moon Bay, California
(Date) (Place where signed)

By: _____
David R. Dickson,
Secretary of the District

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Dave Dickson, General Manager

Agenda: November 13, 2018

Date: November 5, 2018

Subject: Notice of Completion - Denniston Reservoir Maintenance Dredging Project for Year 2018

Recommendation:

That the Board of Directors take the following actions:

- (1) Accept the Denniston Reservoir Maintenance Dredging Project as complete.
- (2) Authorize the Notice of Completion to be filed with the County of San Mateo.
- (3) Authorize the release of the retention funds when the Notice of Completion has been recorded and returned to the District.

Background

Coastside County Water District entered into a contract with Andreini Bros., Inc. on September 25, 2018 for the Denniston Reservoir Maintenance Dredging Project.

The work consisted of dredging Denniston Reservoir of 400 cubic yards around the Denniston Water Treatment Plant intakes. The site of the work is located in the unincorporated community of El Granada, San Mateo County, at 150 Denniston Creek Road. (APN 037-320-140).

The work was completed on October 5, 2018 in accordance with District specifications.

Fiscal Impact: None.

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

Name
Street
Address
City &
State

COASTSIDE COUNTY WATER DISTRICT
766 MAIN STREET
HALF MOON BAY, CA 94019

SPACE ABOVE THIS LINE FOR RECORDER'S USE

RECORD WITHOUT FEE Govt. Code § 6103 & 27383

NOTICE OF COMPLETION

1. The undersigned is an owner of an interest or estate in the hereafter described real property, the nature of which is: Fee Title

2. The full name and address of the undersigned is:

COASTSIDE COUNTY WATER DISTRICT
766 MAIN STREET
HALF MOON BAY, CALIFORNIA 94019

3. On October 5, 2018 there was completed upon the hereinafter described real property a work of improvement as a whole named Denniston Reservoir Maintenance Dredging Project for Year 2018. The work consisted of Dredging Denniston Reservoir of 400 cubic yards around the Denniston Water Treatment Plant intakes.

4. The name of the original contractor for the work of improvement as a whole was: Andreini Bros. Inc., 151 Main Street, Half Moon Bay, CA 94019.

5. The real property herein referred to is situated in the County of San Mateo, State of California, and described as follows:

The work is located within property owned by the District at 150 Denniston Creek Road, El Granada, California (Assessor Parcel Number 037-320-140).

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

COASTSIDE COUNTY WATER DISTRICT

BY: _____
David R. Dickson, Secretary

VERIFICATION

I, David R. Dickson, declare that I am the Secretary of the Coastside County Water District and am authorized to make this verification for that reason. I have read said Notice of Completion and know the contents thereof to be true and correct.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on November 13, 2018, at Half Moon Bay, California
(Date) (Place where signed)

By: _____
David R. Dickson,
Secretary of the District

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: November 13, 2018

Report

Date: November 7, 2018

Subject: Construction of Highway One South 2-Inch Main Emergency Replacement

Recommendation:

Information only.

Background:

As outlined in the attached staff report prepared for the October 9, 2018 meeting, staff considered the replacement of the 2-inch Highway One South pipeline an emergency due to the challenges of maintaining water service to customers served by that pipeline. After the October 9 meeting was adjourned for lack of a quorum, and after consulting with Board President Feldman regarding the urgent need to begin this project before Fall rains delay construction, I awarded the contract to Andreini Brothers, Inc. under the provisions of Resolution 2016-09 (Policies and Procedures for Award of Contracts), Section F (Waivers). Under Section F, the General Manager may waive all the procedural requirements of Resolution 2016-09 in an emergency, which includes when there is a breakdown of essential District services or when field conditions indicate that there is an immediate threat to public safety. In such an emergency, the General Manager shall advise the Board President of the emergency, and provide a report to the Board of the action taken due to an emergency at the next regular Board meeting.

Total cost of the contract awarded to Andreini is \$324,679. San Mateo County and the City of Half Moon Bay issued Coastal Development Permit exemptions for the project, and CalTrans issued an encroachment permit allowing installation of the pipeline within the highway right-of-way. Construction began November 5 and should be completed before the end of November.

STAFF REPORT

**To: Coastside County Water District Board of Directors
Via David Dickson, General Manager**

From: James Derbin, Superintendent of Operations

Agenda: October 9, 2018

Report

Date: October 4, 2018

Subject: 2" Main South Highway One Emergency Pipeline Replacement

Recommendation:

Determine that waiving the competitive bidding requirements of Resolution 2016-09 and that contracting on a sole-source basis with Andreini Brothers to replace 3,300 feet of 2-inch galvanized water main in Highway 1 south of Miramontes Point Road is in the best interest of the District based on the urgent need to complete the project and authorize the General Manager to execute a contract with Andreini for the replacement, for a total not to exceed \$325,000.

Background:

The District's Highway 1 South Pipeline is a 2-inch galvanized steel pipe which extends about 3,300 feet south along Highway 1 from its intersection with Miramontes Point Road, as shown in the attached drawing. The pipeline predates the District's formation in 1947, and it serves eight connections. Six of the eight service connections on the pipeline lie outside the District's boundaries. Due to restrictions put in place after these connections were made, the District cannot add any new connections outside District boundaries, nor can we expand water service to the existing out-of-boundary connections. Rather than upsizing the pipeline, therefore, we're planning to install a new 2-inch pipe.

Although we had planned to construct the replacement pipeline by the end of the current fiscal year, recent developments have created a potential health and safety problem and made completing the project a matter of urgency for us. Operating pressure at the end of the line has dropped, requiring us to work with individual customers on a daily basis to ensure that everyone has sufficient water. We believe the drop in pressure may result from a leak which is not visible at the surface. Due to the length and depth of the pipeline, there is no practical means of locating and fixing the leak. We therefore plan to install the new pipeline as quickly as possible, using the horizontal directional drilling method. EKI Environment and Water has prepared a plan set and specifications for this work.

Fiscal Impact:

This project is included in the approved FY 18/19 CIP budget in the amount of \$750,000 entitled "Highway 1 South Pipeline Replacement Project".

HIGHWAY 1 SOUTH PIPELINE REPLACEMENT PROJECT

PROJECT BACKGROUND

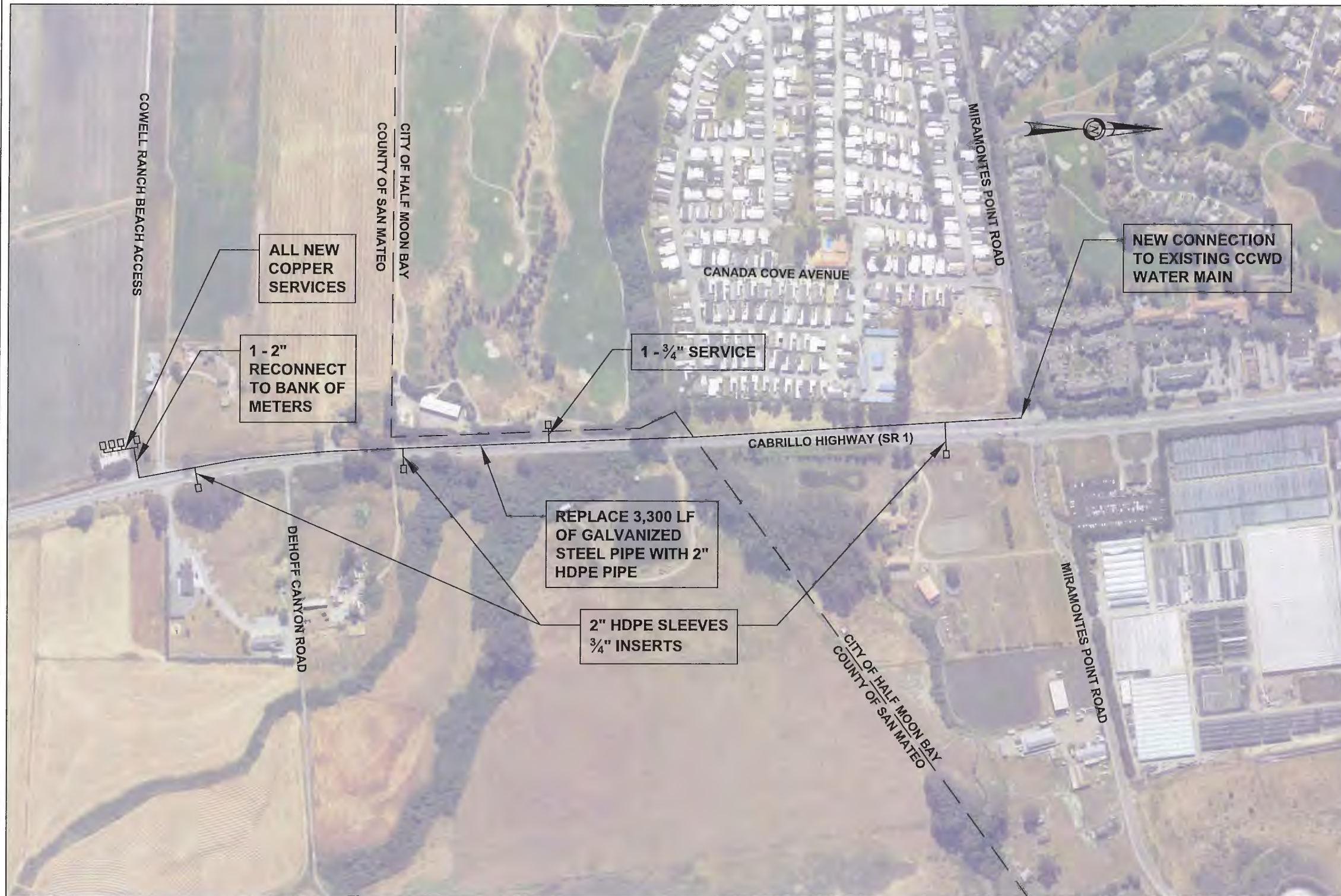
Currently there is a 2" galvanized steel pipe (GSP) water main that begins at the intersection of Miramontes Point Road (MPR) and Cabrillo Highway (Highway 1) and extends southward along and within the Highway 1 right-of-way. Due to pipe age, condition, and on-going leak repair program, the existing water main currently provides limited domestic water service for eight customers. The primary purpose for replacing the existing 2-inch water main is to provide reliable domestic water service for all eight residential services. This project would replace 3,300 LF of the existing GSP with a new 2" HDPE water main. The water main will be similar in length and both horizontal/vertical alignment to the existing 2-inch water main. Hydraulic analysis indicates that the available pressure at the south end of the water main would increase from 18.5 psi to 39 psi with 4 gallons/min demand.

PROPOSED IMPROVEMENTS

Install 3,300 LF of new 2" HDPE pipe
Replace 8 service connections

PROJECT BENEFITS

The Highway 1 South Pipeline Replacement Project replaces an aging 2" GSP with a new 2" HDPE pipe to provide reliable domestic water service to all eight residential services.

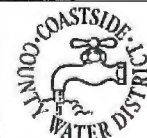


PLAN VIEW
1" = 400' SCALE



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Suite 320
Pleasanton, CA 94588
925.224.7717 Fax 925.224.7726
www.pcgengr.com

JOB No.	10034.09						
DATE	08/06/18						
SCALE	AS NOTED						
DESIGN:	BY WL						
	CKD JP						
DRAWN:	BY WL						
	CKD JP						
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COASTSIDE COUNTY
WATER DISTRICT
766 MAIN STREET
HALF MOON BAY, CA

HIGHWAY 1 SOUTH PIPELINE REPLACEMENT PROJECT
COASTSIDE COUNTY WATER DISTRICT

SHEET 1
OF 1

STAFF REPORT

To: Coastside County Water District Board of Directors

From: David Dickson, General Manager

Agenda: November 13, 2018

Report

Date: November 7, 2013

Subject: Agreement with Pakpour Consulting Group to Provide Plans and Specifications for the Alves Tank Improvements

Recommendation:

Authorize the General Manager to enter into a Professional Services Agreement with Pakpour Consulting Group, Inc. to prepare plans and specifications for the Alves Tank Improvements at a time-and-materials cost not to exceed \$69,886.

Background:

The District's 2 million-gallon Alves Tank, constructed in 1970, has never been recoated and requires recoating and repair. In preparation for the project, the District retained Cornerstone Structural Engineering Group (Cornerstone) to perform a seismic evaluation of the tank and to recommend a retrofit strategy which will bring the tank up to current seismic standards. Pakpour Consulting Group (Pakpour) coordinated Cornerstone's efforts and assisted with development of retrofit options and cost estimates.

Cornerstone's report, included as Attachment A, concludes that "Due to insufficient freeboard, the Alves water tank is anticipated to be severely damaged, with a potential loss of contents and damage to the roof framing and shell during the design level earthquake." The report identifies several repair/retrofit strategies, with estimated costs ranging from \$950,000 to \$2.1 million.

The least expensive approach, identified in the Cornerstone report as Option 1, reduces seismic stresses caused by earthquake-induced sloshing in the tank by lowering the water level from 23.0 feet to 17.5 feet. At the lower water level, the seismic wave in the tank will not interact with the roof structure. Lowering the water level to 17.5 feet reduces the tank's capacity from 2 million gallons to about 1.5 million gallons.

Based on discussions with Pakpour and Cornerstone, staff has focused on Option 1 as the best approach. Hydraulic modeling performed by West Yost Associates confirmed that, due to Alves Tank's low elevation relative to other tanks, the tank is not needed to provide water to the distribution system except under extreme conditions that drop system-wide pressure to very low levels. We

STAFF REPORT

Agenda: November 13, 2018

Subject: Agreement with Pakpour Consulting Group for Alves Tank

Page Two

believe, therefore, that the reduction in storage volume required by Option 1 would be acceptable. In addition, the lower volume mitigates water quality problems resulting from low turnover of the water stored in Alves.

At staff's request, Pakpour has provided a proposal, included as Attachment B, to prepare plans and specifications for the Alves Tank Improvements. The cost for the design is about \$70,000 - in line with design costs for previous tank projects. We recommend retaining Pakpour to provide these services.

Fiscal Impact:

Design cost of \$70,000. The approved FY19-FY28 CIP includes \$2.1 million in funding for this project in FY19 and FY20.



Alves Water Tank

Coastside County Water District
Half Moon Bay, CA



Structural Review and Retrofit Strategy Report

May 29, 2018

Structural Engineering ♦ Construction Services ♦ Engineering Solutions ♦ Project Management

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May 29, 2018
2018008

Coastside County Water District
766 Main Street
Half Moon Bay, CA 94019

Attention: David Dickson

Subject: Alves Water Tank
Structural Review and Retrofit Strategy Report

Dear David:

Cornerstone Structural Engineering Group is pleased to present this summary of our structural review and retrofit strategy report. In accordance with our proposal, we have performed a general structural conditional and seismic assessment of the Alves water tank. This report contains an evaluation for the existing 2,000,000 gallon steel water tank located on the Alves Tank site in Half Moon Bay. Originally constructed in approximately 1970, the Alves Tank is approximately 25 feet 6 inches tall by 120 feet in diameter.

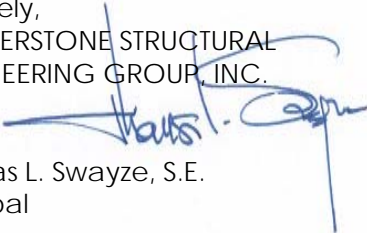
The structural provisions of the current California Building Code refer to the ASCE 7-10 standard for determination of design loads for structures designed within California. ASCE 7-10 in turn refers to the AWWA D100-11 standard for analysis and design of welded steel water storage tanks. This report uses those criteria to evaluate the seismic performance of the existing steel water tank. In addition, a general conditional assessment of the water tanks is also included.

We conducted an initial site visit on June 1, 2017 with subsequent site visit on February 14, 2018. Detailed shop drawing plans by Chicago Bridge & Iron Company and an existing soils report by Lowney-Kaldveer Associates for the Alves Tank were made available and reviewed as part of our investigation.

The following report describes the findings of our conditional review and seismic risk assessment to evaluate the performance of the steel water tank when subjected to a current code-level earthquake. Recommendations to address conditional issues and remediate seismic deficiencies are described in the conclusions.

Please feel free to give me a call if you have any additional questions.

Sincerely,
CORNERSTONE STRUCTURAL
ENGINEERING GROUP, INC.



Thomas L. Swayze, S.E.
Principal

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PART 1: INTRODUCTION

This evaluation represents a general structural conditional and seismic assessment of the existing Alves tank located on Miramontes Point Road in Half Moon Bay, California. The Alves tank is owned, operated, and maintained by Coastside County Water District.



Figure 1: Alves Tank Site Area Photo
(Source: Google Maps)



Figure 2: Alves Tank Site Photo
(Source: Google Earth)



Constructed in approximately 1970, the Alves tank is an unanchored, welded carbon-steel water storage tank with a knuckle roof. The tank has a total shell height of approximately 25.5 feet including the knuckle around the circumference of the tank and is approximately 120 feet in diameter with a nominal capacity of 2.0 million-gallons. The tank provides service to Coastside County Water District in Half Moon Bay. There is a pump house on site that houses equipment that services the Alves Tank (see photo 9 of the Appendix).

An initial site visit was performed on June 1, 2017 to observe the existing exterior structural conditions of the tank. Because the tank was in operation at the time of the initial visit, we were unable to observe the tank interior. Cornerstone performed a subsequent site visit on February 14, 2018 to observe the tank roof, and very limited visual observation of roof framing through the roof access hatch.

The conclusions are limited by the availability of as-built construction documents and by the level of access possible for the observation of the tank. The purpose of this investigation is to provide a summary of conditional issues and seismic assessment for current AWWA level forces for an essential services facility. This report describes the findings of our structural review, and provides recommendations for seismic upgrade and conditional structural repairs as applicable. See part 3 for further discussion regarding observation access and as-built documentation.

PART 2: SEISMIC PERFORMANCE EVALUATION

2.1 Methodology

The potential damage to a structure in an earthquake can be evaluated provided that, (1) seismic hazards which affect the structure and site can be estimated and, (2) the vulnerability of the structure to those hazards are known or can be estimated.

Seismic evaluation of the existing welded carbon-steel water tank was conducted using:

- American Water Works Association (AWWA) D100-11 – Welded Carbon Steel Tanks for Water Storage
- American Society of Civil Engineers (ASCE) 7-10 – Minimum Design Loads for Buildings and Other Structures
- Site specific S_s , S_1 , S_{D5} and S_{D1} seismic ground motion parameter values approximated by the USGS Seismic Hazard Curves program based off the 2008 NEHRP Maps.

Seismic evaluation of the Alves steel water tank was performed using seismic design forces calculated in accordance with the AWWA D100-11 standard for new welded steel water tank construction.

Design ground motions in AWWA D100-11 standard correlate to a seismic event with a 10 percent probability of exceedance within a 50 year period and are referred to as a 475-year earthquake. Water tanks considered to be essential are designed with an importance factor increase of 1.5 applied to the design ground motions. See below for further discussions.

The methodology used in our assessment uses an importance factor of 1.5 as described in Section 2.2 below, for Seismic Use Group III as documented in the AWWA D100-11 based approach. This Seismic Use Group III is for essential facilities and is essentially equivalent to an occupancy/risk category IV under the 2016 CBC and ASCE 7-10.



2.2 Seismic Use Group

AWWA D100-11 seismic design identifies three Seismic Use Groups I, II & III and assigns an importance factor, I_E to each group. I_E is a multiplier that is used to calculate lateral load forces applied to structures relative to their community importance to ensure that a structure will sustain less damage in an earthquake. Public water tanks which provide service considered to be essential for post-earthquake recovery, including fire suppression, are sometimes designated as Seismic Use Group III by the owners and are assigned an importance factor, I_E , of 1.5 which is the most stringent codified criteria. As a result, an essential service water tank will normally be designed to withstand 50% more lateral load than a tank considered to be non-essential or redundant.

2.3 Seismic Source

The seismicity in the Bay Area is influenced by several known faults, their potential faulting length, and relative orientation. The San Andreas Fault system, which separates the North American plate from the Pacific plate, is located approximately 6 miles to the northeast of the Alves tank site. The known, nearest-site faults with recorded activity are listed in Table 1, as follows:

Controlling Fault	Estimated MCE (M_w)	Distance to Site (miles)
San Gregorio Fault	7.5	2.0
San Andreas Fault	7.8	6.0
Hayward Fault	7.0	24.0

Table 1: Active Near Source Faults

Based on the California Geologic Survey (CGS) and the United States Geologic System (USGS) mapping, the 475-year peak ground acceleration (PGA) for the Alves Tank site is 0.50g.

In addition to the normal lateral ground motions evaluated for earthquake design, recent earthquakes in Southern and Central California – namely Coalinga, Whittier Narrows, and Northridge – have occurred along blind-thrust faults. These faults do not have readily identifiable surface features and are not extensively mapped. The potential for strong-ground motion to occur due to blind-thrust faulting in Northern California is somewhat in doubt. However, a moderate to large earthquake centered even closer to the site cannot be completely ruled out.

It should be noted that a more thorough explanation of site seismicity and specific faulting hazards could be provided by a geotechnical engineer. The conclusions above rely on general published data for the San Francisco Bay Area.

Furthermore, it should be noted that the Foundation Investigation by Lowney-Kaldveer Associates dated June 15, 1973 discusses site Geology and Seismicity. According to this report, the site is founded on sandstone, siltstone, and claystone of the Purisima Formation and geologic stability is favorable and the danger from fault offset through the site is considered minimal. See Section 3.2 below for further discussion on site classification.

PART 3: WATER TANK EVALUATION

3.1 Documentation

- Plans for the Construction of Alves tank prepared by Tudor Engineering Company dated July 1973 were made available for evaluation from the District. These drawings indicated the overall dimensions of the tank, site grading, piping plans and foundation information. It should be noted that these plans use the name "Miramontes Storage Tank". Coastside County Water District has confirmed that the name of the tank is "Alves" and "Miramontes" is the street where the tank is located.
- A Foundation Investigation by Lowney-Kaldveer Associates dated June 15, 1973 was made available for evaluation from the District. This investigation includes site information such as soils, groundwater, and seismicity as well as recommendations including grading, drainage and foundations. Information documented in this report appears to be consistent with the Construction Plans noted above.
- Steel tank shop drawings by Chicago Bridge & Iron Company dated July 7, 1973 were also made available. These documents include tank shell, roof plate, and base plate thicknesses, overflow information, structural framing information, and structural framing connection details. Supporting calculations were also provided.
- An underwater inspection report performed by LiquiVision Technology in January 2008 was also made available. This report provides conditional assessment of the tank interior as well as exterior.

These documents were collectively used to evaluate the existing steel water tank and determine potential retrofits.

3.2 Evaluation Criteria

Seismic evaluation of the steel water tank was performed using the AWWA D100-11 standard.

- Alves tank is considered to be essential to maintain water service in the event of an earthquake; therefore, it was evaluated using an importance factor, I_E of 1.5 (essential service).
- Site specific soil classification and seismic parameters were not included in the Foundation Investigation by Lowney-Kaldveer Associates dated June 15, 1973, however description of subsurface conditions and boring logs indicate 3-5 feet of silty clay layer overlaying siltstone with relatively high blow counts. Normally, in the absence of site specific soil classification or seismic parameters, a site classification D is assumed as a default value in seismic assessments.
- According to Table 20.3-1 of ASCE 7-10, the blow counts documented in the available geotechnical report correspond to a site class C and based on the USGS Soil Type and Shaking Hazard in the San Francisco Bay Area Map, the Alves tank site is located within a soil type C. Soil type C (soil profile for very dense soil and soft rock) was determined to be reasonable and was used for the Alves tank. USGS soil type C closely relates to site class C for design with the USGS ground motion data and ASCE 7 requirements. Seismic ground motion parameter values, derived from 2008 USGS hazard data in accordance with ASCE 7-10 (w/ March 2013 errata) for Site Class C, are listed in Table 2.



It should be noted that use of site class D values would result in roughly 15% greater seismic demands. Actual confirmation of site class would need to be provided by a geotechnical professional as the USGS soil type is provided as a general guideline and should not be relied on for final design.

S_s	2.074g
S_1	0.882g
S_{Ds}	1.383g
S_{D1}	0.765g

Table 2: Seismic Ground Motion Parameters For Soil Type C

- Alves tank is supported by, but not anchored to, a reinforced concrete ringwall foundation and was therefore evaluated by CSEG as a 'self-anchored' tank to determine seismic vulnerabilities and deficiencies. The AWWA D100-11 response modification factors R_i and R_c used to determine the impulsive and convective design accelerations for self-anchored tanks are 2.5 and 1.5 respectively.

Evaluation results can be found in section 3.5 "Lateral Load System".

- Alves tank was then evaluated by CSEG with lower Maximum Operating Levels to determine potential retrofit options.

Evaluation results can be found in Section 3.5 "Lateral Load System".

3.3 Construction

The Alves water tank is a flat bottom welded carbon-steel tank, and is 120 feet in diameter. The tank is supported on, but not anchored to, a reinforced concrete ringwall foundation. See Figure 3 below for tank section from the available shop drawings. The information provided below is based on available shop drawings and construction plans for the Alves Tank as well as observations made while visiting the site.

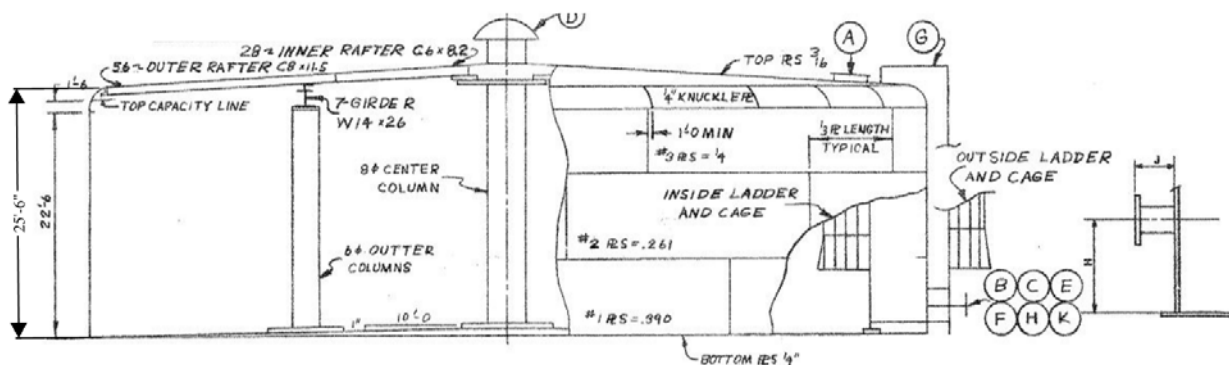


Figure 3: Alves Tank Section
(Source: Alves Tank Shop Drawing)

- Alves tank is constructed of three courses of plates plus a knuckle for a total shell height of approximately 25.5 feet around the circumference of the tank. Construction of the tank shell was observed to be consistent with the available shop drawings, which indicate continuous butt welds at both the longitudinal and circumferential plate joints. Per the available shop drawings, the tank shell plates

are specified as A131A, whereas the roof and bottom plates are specified as A283C. Course plate thicknesses and ASTM designation based on the shop drawings with corresponding yield strengths are shown in Table 3:

Location	Inches	ASTM	Fy (Ksi)
Roof Plate	0.1875	A283C	33.0
Knuckle Plate	0.25	A131A	31.9
Shell Course No. 3	0.25	A131A	31.9
Shell Course No. 2	0.261	A131A	31.9
Shell Course No. 1	0.390	A131A	31.9
Floor Plate	0.25	A283C	33.0

Table 3: As-Built Tank Plate Thicknesses for Alves Tank

- Based on available shop drawings, the roof framing of the tank consists of an inner and outer bay of radial C8x and C6x rafters with an intermediate column supported girder ring. The outer bay of C8x11.5 rafters span approximately 30 feet from the tank shell to an intermediate ring of W14x26 girders. The inner bay of C6x8.2 rafters span from the W14x girders to a central 8 inch diameter column. The W14x intermediate girders are supported by 6 inch diameter interior columns spaced approximately 26 feet apart.
- There are 1-½ inch by 1-½ inch angle stability braces located around the tank at approximate mid span of each rafter. There are also 3½ inch by 3½ inch angle diagonal braces at various locations throughout the tank. Based on discussions with a tank specialist, these diagonal braces were sometimes used to provide additional stability of rafters, particularly against spiraling or rolling.
- The tank bottom plate was observed to extend approximately 2 inches beyond the exterior of the tank shell. The base of the shell is connected to the bottom plate with continuous interior and exterior fillet welds.
- There is a 16-inch diameter inlet/outlet pipe supported by reinforcing plates on both sides of the tank shell that exits the tank through the tank shell near the tank bottom.
- There is a 10-inch diameter interior overflow pipe that exits the tank through the tank shell near the tank bottom.
- There is an approximately 1.5 foot deep by 1 foot wide reinforced concrete ringwall foundation that supports the tank. No anchorage from the tank to the ring walls is shown.
- There is one 24-inch diameter access door and one 36-inch access door located on the tank near the bottom.
- There is an exterior roof access ladder; however there is no interior ladder access.
- There is an approximate 3 foot by 3.5 foot roof access hatch.
- There is a 48" diameter mushroom roof vent with screen in the center of the tank roof.
- The slope of the tank roof is approximately ¾ inch per 12 inches

The Alves tank site also has a pump house that appears to be a masonry building (likely fully grouted and reinforced) with a flexible wood roof diaphragm (see photo 9 of the



appendix). A conditional and cursory ASCE 41-13 Tier 1 checklist seismic evaluation for Life Safety was performed on the building to determine any potential seismic deficiencies based on some likely assumptions. See Section 3.5 for findings from this evaluation. As-built plans were not available for the evaluation of the pump house.

3.4 *Conditional Issues*

The tank was in operation during our initial site visit, limiting observation to the exterior of the tank. During a second site visit, roof hatch access of the tank was provided which allowed us to look at the roof framing with a flashlight. Roof framing members near the hatch were visually observed, however measurements could only be taken from the outer bay rafters.

Based on our field visits, the existing tank appears to be in general compliance with the codes and standard construction practices in effect at the time of its construction.

The existing conditions observed during our site visits are as follows:

- Corrosion of the bottom plate is evident in various locations along the perimeter of the tank, see photo 1.
- Corrosion is evident on the exterior tank shell at various locations around the tank, see photo 2.
- Localized areas of minor corrosion are evident on the tank roof, see photo 3.
- The caulking along the top of the footing and the tank bottom plate has degraded and is starting to pull away leaving localized gaps between the footing and bottom plate, see photo 4.
- Corrosion is evident around the perimeter of the roof vent, see photo 5.
- Corrosion is evident on the roof hatch with two small holes visible in the hatch door, see photo 6.

3.5 *Lateral Load System*

Lateral loads for the steel tank structure result primarily from either wind pressure acting upon the exterior tank surface or earthquake induced inertia forces acting on the tank structure and its contents. For our consideration, the seismic forces govern by a significant amount. The lateral-force resisting system consists solely of the cylindrical steel tank shell and floor plate which transfers lateral loads to the base of the tank by a combination of circumferential tension, shear, and vertical tension/compression shell stresses. Tank overturning and sliding forces are resisted with friction by the tank self-weight, including a portion of its contents to resist seismic forces.

Seismic evaluation of the existing tank with no modifications was performed based on a maximum operating water level of 23.0 feet per the direction from the District. The maximum operating level is one foot below the lip of the overflow.

- The existing tank has sufficient self-weight to resist seismic sliding and overturning forces due to the design level earthquake load. The Demand to Capacity (D/C) ratio for seismic sliding is approximately 0.4 and for seismic overturning is approximately 0.5.
- The tank shell thickness is overstressed in circumferential hoop tension stresses due to seismic loads with a maximum Demand to Capacity (D/C) ratio of approximately 1.35.



- The tank has adequate shell thickness to resist longitudinal compression stresses due to design level earthquake loads with a Demand to Capacity (D/C) ratio of 0.21.
- The overturning ratio, "J", is calculated to be less than 0.785, meaning there is no shell uplift and therefore Alves tank is considered to be considered self-anchored under its own weight.
- The height between bottom of the existing roof rafters at their lowest point and the surface of water at maximum capacity is less than 2 feet (this is the existing freeboard). The calculated freeboard height to accommodate earthquake wave sloshing is 8.5 feet for the Alves tank. At a maximum operating level (MOL) of 23.0 feet, wave sloshing due to earthquake forces will cause significant uplift damage to roof plate, knuckle plate, shell and/or roof framing during the design level earthquake considered for essential service facilities.

Findings for the Pump House Building

Based on the ASCE 41 Tier 1 review, the following items are of significance for the performance of buildings when subjected to strong ground motions during an earthquake. With no as-built drawings, the following items cannot be confirmed without destructive removal of finishes and further testing:

Positive Features

- Foundations show little to no signs of significant settlement or distress.
- Reinforced masonry walls are within allowable shear stress limits (fully grouted assumed).

Negative Features and Unconfirmed Construction Details

- Fully grouted CMU walls: Based on similar buildings constructed in this era, the walls are most likely fully grouted (shear capacity assumed this).
- Roof-to wall ties: Based on similar buildings constructed in this era, the roof-to-wall ties are likely either inadequate or missing entirely. Lack of positive wall anchor ties would rely only on cross grain bending of wood ledgers, which is an inefficient and code prohibited load mechanism.
- Adequate shear transfer from the diaphragm into the shear walls as well as from the wall into the foundation. It is likely that this is moderately deficient.
- Roof construction: it is assumed that the roof diaphragm consists of unblocked plywood sheathing over 2x roof joists, which would be adequate.

3.6 Expected Performance

Due to insufficient freeboard, the Alves water tank is anticipated to be severely damaged, with a potential loss of contents and damage to the roof framing and shell during the design level earthquake. Options for limiting potential damage during an earthquake are discussed in Section 4.3 "Seismic Recommendations".

The pump house is anticipated to perform below average in comparison to buildings of similar construction when subjected to a design level earthquake due primarily to the assumed inadequate roof-to-wall ties.



PART 4: SUMMARY

Findings within this report provide a general structural conditional and seismic assessment of the Alves water tank located in Half Moon Bay, California. Alves tank is a flat bottomed, welded steel water tank constructed in approximately 1970. The tank has a total shell height of approximately 25.5 feet and is 120 feet in diameter with a nominal capacity of 2.0 million gallons.

4.1 Findings

Based on our review, the Alves water tank appears to be in general compliance with the codes and standard construction practices in effect at the time of its construction in 1970. However, the Alves water tank is not expected to resist a design level earthquake determined by the AWWA D100-11 criteria for tanks considered necessary for essential services. The following specific deficiencies are as noted:

- Inadequate freeboard height to accommodate earthquake wave sloshing is likely to result in damage to roof plate and/ or roof framing, tank shell, roof framing attachments, and the floor plate at shell to bottom weld and column connections.
- Inadequate shell thickness of bottom two courses to resist circumferential hoop tension stresses caused by the seismic event.

4.2 General Recommendations for Conditional Issues

The following recommendations are provided to address issues concerning the general conditions outlined in this report:

- Areas of localized rust and corrosion upon interior framing members, roof plate, and roof hatch should be cleaned and inspected during scheduled painting and maintenance. If more than 10% of the section is lost, then a repair detail should be developed. Roof hatch door should be replaced.
- Areas of localized rust and corrosion on the tank bottom plate should be cut out and patched with new segments of floor plate if corrosion extends inside the tank. Further investigation of the corrosion on the floor slab should be conducted to determine extents.
- Caulking along the top of the footing should be repaired/ replaced as necessary to close off localized gaps between the footing and the bottom plate.

4.3 Seismic Recommendations

Water Tank Seismic Recommendations

The following recommendation options are provided to address the seismic deficiency issues related to the water tank as outlined in this report. A variety of water levels have been evaluated to provide the District with potential retrofit options with different water operating levels. A loss of 85,000 gallons in water storage capacity will occur with every foot the water level is lowered:

- Option 1: Provide greater freeboard by lowering the maximum operating level 5.5 feet (MOL) elevation to 17.5 feet so that the seismic wave will not interact with the roof framing, therefore strengthening is not required.
 - If the Maximum Operating Level (MOL) is lowered from 23.0 feet by 5.5 feet down to 17.5 feet, the calculated freeboard will be greater than the sloshing wave height. This option requires no strengthening of roof framing for seismic wave sloshing. Also, this drop in water level lowers tension stresses at the



bottom of the tank to within acceptable limits. However, this option significantly diminishes the holding capacity of the tank by approximately 470,000 gallons or approximately 25% less than current capacity.

- This option requires door sheet to be cut and re-installed using the existing shell plate and work related to lowering the overflow cone to the required elevation.
- Anchorage to a concrete ring wall foundation is not required for this option.
- Based on our experience with similar tanks, repair/ replacement of roof rafters may be required following blast cleaning and thorough inspection of section loss due to corrosion.
- In addition to structural related items, it appears that the existing tank is due for a complete recoating to extend service life. The recoating of the tank will require extensive surface preparation.
- Option 2: This is an intermediate solution. Provide greater freeboard by lowering the Maximum Operating Level 4 feet (MOL) to 19.0 feet so that the existing shell plates and roof plate are adequate and that the existing roof framing can remain in place and be strengthened.
 - If the Maximum Operating Level (MOL) is lowered from 23.0 feet by 4.0 feet down to 19.0 feet, there will be approximately 6 feet of freeboard height provided. At this water level, the calculated wave sloshing height is approximately 8.0 feet. This will require strengthening of the outer bay roof rafters to resist 2.0 feet of hydrostatic upward pressure. This depth was selected for consideration because it is the highest the operating level that can be achieved without replacement or strengthening of the roof plate and because it would not require strengthening of inner bay rafters.
 - The outer bay roof rafters will require strengthening of bottom flanges by welding on steel plates and bracing the bottom flange with transverse members (See concept Detail A shown in Sketch 1 of the Appendix). The roof plate can adequately resist these forces if the roof plate is welded to the roof rafters or by potentially installing slider clips that would be connected to the underside of the tank roof and hang underneath flanges of existing rafters. According to the available shop drawings, existing roof plate is welded to transverse angle brace and not each rafter. Conditional evaluation after blast cleaning may warrant full replacement of the outer rafters as a more economical solution.
 - The W14x girders will require stability strengthening of bottom flanges by bracing of the bottom flange at mid-span by providing diagonals to outer bay rafter nearest the middle of the girder (See concept Detail B shown in Sketch 2 of the Appendix).
 - The columns would need to be retrofitted to provide a greater resistance to uplift (See concept Detail C shown in Sketch 3 of the Appendix). The existing columns are welded to the bottom plate. This could be achieved by temporarily supporting the existing column and modifying the column base.
 - Anchorage to a concrete ring wall foundation is not required for this option.
 - Based on our experience with similar tanks, strengthening of interior roof rafters may also be required following blast cleaning and thorough inspection of section loss due to corrosion.

- In addition to structural related items, it appears that the existing tank is due for a complete recoating to extend service life. The recoating of the tank will require extensive surface preparation.
- Option 3: Maintain current 23.0 feet water level elevation
 - Option 3a: Replace the Tank with a new tank designed to the current AWWA D100-11 code.
 - If Maximum Operating Level (MOL) is desired to remain at the current 23.0 foot level, then the tank can be completely replaced with a new tank that will meet the required freeboard. The new tank would be taller than the existing.
 - Existing concrete ring wall foundation may be utilized to support the new tank
 - The plates for the new tank would be shop primed resulting in less surface preparation work compared to re-coating of the existing tank.
 - Option 3b: Maintain current 23.0 feet water level elevation, increase the freeboard and mitigate the tank shell overstress by jacking the existing tank and adding a new lower course shell ring.
 - If Maximum Operating Level (MOL) is desired to remain at the current 23.0 foot level without replacing the tank or roof structure, the existing tank roof would need to be raised. This could be accomplished by jacking the existing tank up and installing a new first shell course and new columns to increase the freeboard of the tank and also provide adequate tensile stress capacity of the tank shell. The new first course ring would be thicker than existing shell plates and approximately 7.0 feet tall for a total tank height of approximately 32.5 feet. The calculated sloshing wave height is 8.5 feet, which is less than the calculated freeboard of approximately 9 feet; therefore strengthening of the roof would not be required. The increase in tank height will need to be reviewed by the District, Planning, and any other governing agencies.
 - Anchorage to a concrete ring wall foundation is not required for this option. Existing concrete ring wall foundation may be utilized to support the new bottom course shell of the altered tank.
 - The Alves tank site appears to be sufficient for the option of jacking the tank shell, with reasonable access around the perimeter of the tank.
 - Based on our experience with similar tanks, repair/ replacement of roof rafters may be required following blast cleaning and thorough inspection of section loss due to corrosion.
 - In addition to structural related items, it appears that the existing tank is due for a complete recoating to extend service life. The new bottom course will be shop primed, however the rest of the tank would require surface preparation in the field.

Issues considered that could affect jacking operations include access restrictions, material handling, and construction methods:



1. The new shell ring could be provided in standard lengths based on the site access available.
 2. A jacking system would be temporarily installed around the tank circumference and be sized for the weight of the tank. In addition, each column on the interior of the tank would require a separate jack. Final determination would be made after detailed inspection of the structural configuration if the jacking option is selected.
 3. The jacking process could potentially take several weeks, as horizontal welds will need to be applied by hand around the circumference of the tank instead of using an automated weld process normally used in new tank construction.
 4. Existing manholes in the bottom shell could be left in place or removed and sealed with cover plates. New manholes would be built into the new bottom course.
- Option 3c: Maintain current 23.0 feet water level elevation, strengthen the roof framing and mitigate the tank shell overstress by installing a new external roof system and shell reinforcing plate at bottom two courses.
 - If Maximum Operating Level (MOL) is desired to remain at the current 23.0 foot level without replacing or jacking of the existing tank, the roof will need to be strengthened. Various tank manufacturers offer external roof systems that provide significant strength and resistance to wave pressures.
 - If tank dimensions and water level are left unchanged, strengthening plates would need to be provided around the bottom two shell courses where analysis indicates that shell plates are overstressed due to circumferential hoop tension. Since the tank is overstressed in the bottom two courses and a new bottom course is not being added, it was determined that this alternative is not economical compared to alternatives 3a and 3b.

Pump House Seismic Recommendations

The following recommendations are provided to address the seismic deficiency issues outlined in this report related to the pump house. These recommendations are based on assumptions made regarding the as-built condition of the roof framing. Assumptions should be confirmed with exploratory demolition of finishes and investigation of the roof framing and wall components prior to beginning retrofit work.

Based on our Tier 1 investigation summarized in section 3.5 above, it is likely that the roof-to-wall ties are either missing or are inadequate for the current seismic design codes. Removal and reinstallation of the ceiling will be required to install the new ties. Roof to wall ties will consist of tension tie rods drilled and epoxied through the existing masonry walls with holdown anchors installed on the sides of the roof joists. At locations where walls are parallel to the roof framing tension tie rods shall be installed through blocking in the outer 3 bays of framing with metal straps installed on top of the roof. Enhanced nailing on the roof sheathing will be required at the location of the tie rods. Removal and reinstallation of the roofing and ceiling has been included in the cost estimate as rough order of magnitude costs. Additional work to the roof diaphragm (plywood sheathing, additional nailing) may be required depending on what type of roof sheathing exists on

the pump house roof (plywood sheathing, straight/diagonal sheathing). These scope items are included in the structural cost estimates in section 4.5 below.

4.4 *Painting*

Based on observation of Alves Tank, it appears that the tank is due for recoating and general maintenance. This report includes recommendations of structural items only, however it is noted that recoating of the interior and exterior of the tank will increase the expected life span and generally help prevent further corrosion. Please note that in order to provide a more accurate comparison between the options noted, the costs for paint have been included as part of the cost estimates shown in Section 4.5 below. These costs are general estimates and the District should consult tank manufacturers for final costs.

4.5 *Cost Estimate*

Although Alves Tank has performed adequately for the past 45 years, we recommend that the tank be repaired to remedy existing conditional issues. The District can evaluate the options outlined below to increase survivability of a code level earthquake or replaced with a new tank. The following cost estimates for tank rehabilitation were provided by Cornerstone and developed jointly with a tank specialist and Pakpour Consulting Group. **Estimates for all retrofit options include Interior and Exterior complete stripe and recoating of the tank.** Cost estimate as include scope items related to the pump house building strengthening as noted in section 4.3 above. These costs are for structural costs only and do not include planning, engineering, or special inspections.

Option 1 (Lower overflow to 17.5')

This option includes cutting a door sheet in the tank for access and material handling, labor and equipment necessary to lower the overflow elevation to the specified level. Radiography and re-installation of the door panel is included. Based on our experience with similar tanks in this general area, a separate line item for roof rafter replacement has been added assuming the entire roof rafter system will need to be replaced due to extensive corrosion that may be evident following blast cleaning.

<u>Pump House Strengthening</u>	
Roof-to-Wall Ties & Reroofing	\$58,000
20% contingency	\$12,000
Pump House Strengthening Subtotal	\$70,000
<u>Seismic Retrofit of Tank</u>	
Overflow Retrofit	\$40,000
Recoating with 3 part epoxy system	\$690,000
20% contingency	\$150,000
Seismic retrofit of Tank Subtotal	\$880,000
<hr/>	
Total	\$950,000
Additional costs to replace rafters	\$200,000
Additional 20% Contingency	\$50,000
<hr/>	
Total w/ rafter replacement	\$1,200,000

Option 2 (Lower overflow to 19.0' and seismically retrofit the tank)

This option includes cutting a door sheet in the tank for access and material handling, labor and equipment necessary to lower the overflow elevation to the specified level, material, fabrication, and installation of roof structure reinforcing components, including bottom flange strengthening plate on outer bay rafters, stiffener plates, lateral bracing, diagonal bracing, welding, and column strengthening. Radiography and re-installation of the door panel is included. Based on our experience with similar tanks in this general area, a separate line item for strengthen/ replace roof rafters has been added assuming the entire roof rafter system will need to be replaced due to extensive corrosion that may be evident following blast cleaning. Note that if extensive corrosion is evident, rafters could be replaced with heavier rafters deigned to accommodate the seismic wave force.

<u>Pump House Strengthening</u>		
Roof-to-Wall Ties & Reroofing		\$58,000
20% contingency		\$12,000
Pump House Strengthening Subtotal		\$70,000
<u>Seismic Retrofit of Tank</u>		
Strengthen/ Replace Rafters and Connections		\$700,000
Recoating with 3 part epoxy system		\$690,000
20% contingency		\$280,000
Seismic retrofit of tank Subtotal		\$1,670,000
Total		\$1,740,000

Option 3 (Leave Normal Operating Level at 23')

This option includes leaving the normal operating level at 23 feet if Coastside County Water District cannot lose any existing capacity due to daily usage and excess capacity for fire suppression. This option is broken down into three alternatives:

Option 3a – Replace existing tank with a new tank of similar capacity designed to the current AWWA Standard

Option 3b – Retrofit existing tank by jacking the tank and adding a new bottom shell course

Option 3c – Replace existing roof with a new external rafter roof system and retrofit the tank shell with strengthening plates. Estimates for this option have not been included as it was determined to be non-economical.

Cost information for each of the options is shown below.

Option 3a (New 2.0 MG, 120'D x 30'H + 3' knuckle (23.0' MOL) Tank)

As a comparison to the retrofit options noted in this seismic evaluations, costs have also been provided for replacement of the existing tank with a new tank, designed to the current AWWA standard. Costs for replacing the existing Alves tank with a new tank of similar size is provided below. The following cost estimates were provided jointly a tank specialist and Pakpour Consulting Group. **Estimates for all retrofit options include Interior**



and Exterior complete stripe and recoating of the tank. Estimate for the replacement option includes finish coating of the interior and exterior of the tank. These costs are for structural costs only and do not include planning or engineering, or special inspections.

<u>Pump House Strengthening</u>	
Roof-to-Wall Ties & Reroofing	\$58,000
20% contingency	\$12,000
Pump House Strengthening Subtotal	\$70,000
 <u>New Tank Construction</u>	
Remove existing tank	\$65,000
Construct new tank	\$1,060,000
Painting with 3 part epoxy system	\$375,000
20% contingency	\$300,000
New Tank Construction Subtotal	\$1,800,000
<hr/>	
Total	\$1,870,000
Additional costs to replace roof with external roof rafter system	\$220,000
Additional 20% Contingency	\$40,000
<hr/>	
Total w/ optional external roof system	\$2,130,000

Option 3b (Increase tank height to 32.5' by jacking the tank and keep MOL at (E) 23')

This option includes labor and equipment necessary to jack the tanks, material, fabrication, installation of new first course ring, installation/ modification of columns, and pre-blasting all weld joints. Based on our experience with similar tanks in this general area, a separate line item for roof rafter replacement has been added assuming the entire roof rafter system will need to be replaced due to extensive corrosion that may be evident following blast cleaning.

<u>Pump House Strengthening</u>	
Roof-to-Wall Ties & Reroofing	\$58,000
20% contingency	\$12,000
Pump House Strengthening Subtotal	\$70,000
 <u>Seismic Retrofit of Tank</u>	
Tank Jacking, New Bottom Course & Columns	\$425,000
Recoating with 3 part epoxy system	\$690,000
20% contingency	\$235,000
Seismic retrofit of the tank Subtotal	\$1,350,000
<hr/>	
Total	\$ 1,420,000
Additional costs to replace rafters	\$200,000
Additional 20% Contingency	\$50,000
<hr/>	
Total w/ rafter replacement	\$1,670,000

4.6 Summary

Table 4 below summarizes the seismic retrofit options as described above in Sections 4.3 through 4.5. See these sections for more detail regarding each option recommendations and cost. Note that the current overflow elevation is approximately at 24 feet above the base of the tank.

Retrofit Option	Operating Level (ft)	Tank Capacity (gallons)	Scope of Work/Recommendations	Cost Estimate
Option 1	17.5	1.53MG	1. Retrofit Overflow 2. Paint Water Tank	\$950,000 (w/o rafter replacement)
			3. Replace Rafters (as req'd)	\$1,200,000 (w/ rafter replacement)
Option 2	19.0	1.66MG	1. Retrofit Overflow 2. Strengthen/ Replace roof rafters 3. Paint Water Tank	\$1,740,000
Option 3a	23.0	2.0MG	1. Demolish existing tank 2. construct new tank 3. Paint new tank	\$1,870,000 (w/o exterior rafter system)
			4. New external rafter system (optional)	\$2,130,000 (w/ exterior rafter system)
Option 3b	23.0	2.0MG	1. Jack tank 2. Install new columns and bottom shell course 3. Paint Water Tank	\$1,420,000 (w/o rafter replacement)
			4. Replace rafters (as req'd)	\$1,670,000 (w/ rafter replacement)

Table 4: Summary of Seismic Retrofit Options for Steel Tank

PART 5: APPENDIX



Photo 1: Corroded Tank Bottom Plate



Photo 2: Corrosion on Tank Shell Plate



Photo 3: Corrosion on Tank Roof Plate



Photo 4: Degraded Caulking along Perimeter of Bottom Plate



Photo 5: Corrosion around Perimeter of Roof Vent



Photo 6: Corrosion on Roof Hatch



Photo 7: Condition of Existing Exterior Rafters

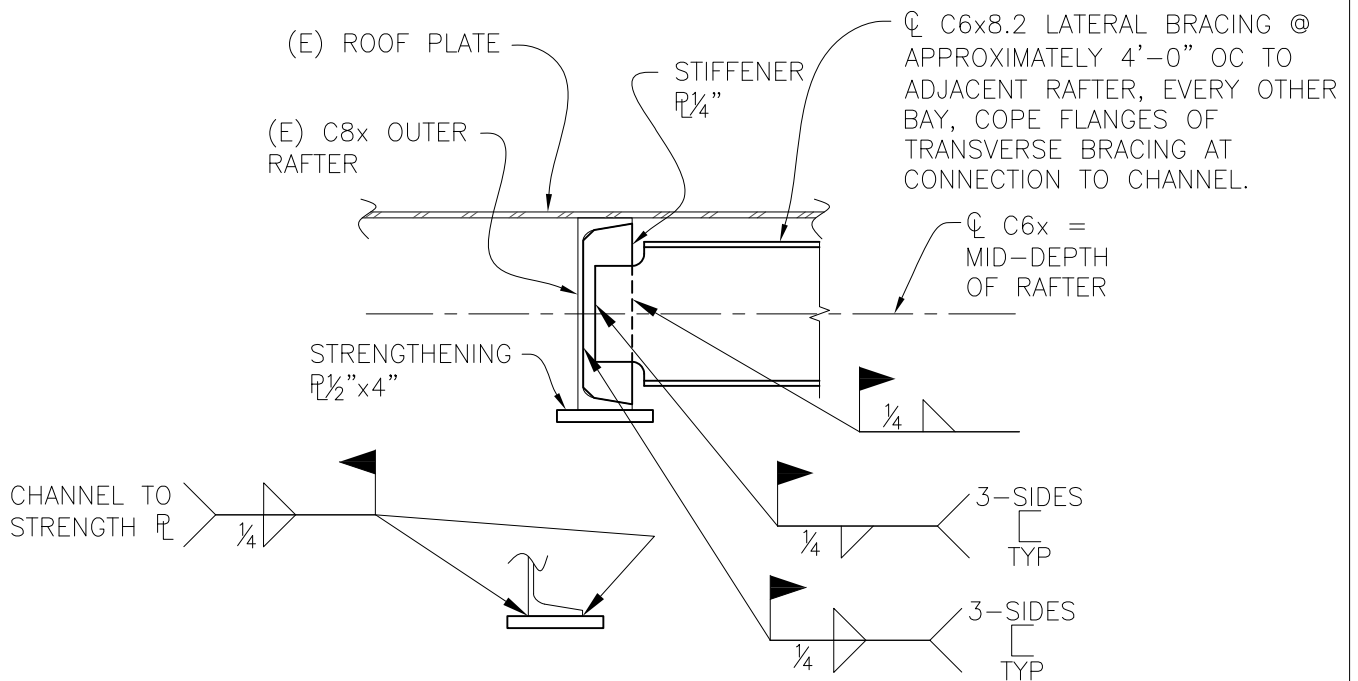


Photo 8: Existing Roof Framing



Photo 9: Pump House Building

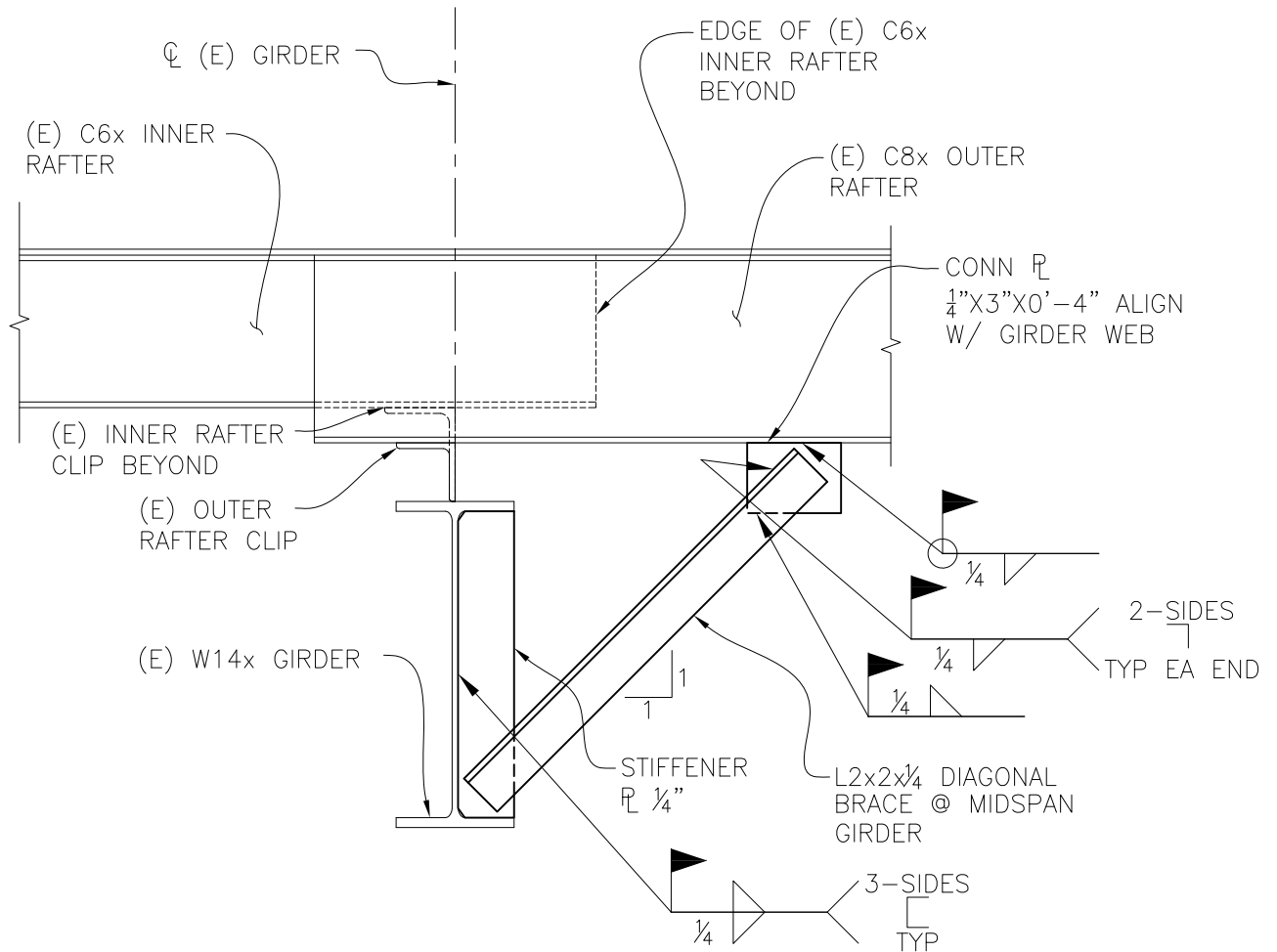




OUTER BAY RAFTER STRENGTHENING

A
SK-1

1 1/2" = 1'-0"



GIRDER BRACING

1 1/2"=1'-0"

B
SK-2



40 Federal Street
San Francisco, California 94107
415.369.9100
fax 415.369.9101

DESIGNED BY:
CDI
DRAWN BY:
CDI
CHECKED BY:
DGL
SCALE:
AS NOTED

ALVES TANK
SEISMIC ASSESSMENT
HALF MOON BAY, CA

SK-2

PROJECT No:
2018008

DATE:
04/02/18

GIRDER BRACING

(E) COLUMN
BASE PLATE
TO BE
REMOVED

COLUMN \bar{r}
 $\frac{1}{2}'' \times 3'-0'' \phi$ FROM
TWO EQUAL HALFS
AT EA COLUMN

PLAN

NOTE: (E) COLUMN
TO BE TEMPORARILY
SUPPORTED DURING
REMOVAL OF
COLUMN BASE AND
INSTALLATION OF
NEW STRENGTHENING
PLATE

(E) COLUMN
PER PLAN

NEW COLUMN,
MATCH (E)

GUSSET \bar{r}
 $\frac{3}{8}''$, TYP

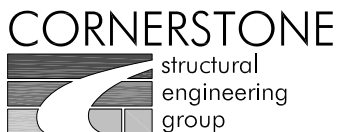
2-SIDES
TYP

(E) FLOOR \bar{r}

COLUMN PLATE

$\frac{3}{4}'' = 1'-0''$

C
SK-3



40 Federal Street
San Francisco, California 94107
415.369.9100
fax 415.369.9101

DESIGNED BY:
CDI
DRAWN BY:
CDI
CHECKED BY:
DGL
SCALE:
AS NOTED

ALVES TANK
SEISMIC ASSESSMENT
HALF MOON BAY, CA

COLUMN STRENGTHENING

SK-3

PROJECT No:
2018008

DATE:
03/06/18



Pakpour Consulting Group, Inc.

September 25, 2018

10034.08

David R. Dickson
 General Manager
Coastside County Water District
 766 Main Street
 Half Moon Bay, CA. 94019

**Subject: Proposal to Provide Plans, Specifications, Estimate
 for the Alves Tank Improvements
 Coastside County Water District**

Dear David,

Pakpour Consulting Group (PCG) is pleased to provide a proposal to prepare plans, specifications, and cost estimate for the Alves Tank Improvements. We based our proposal on the recommendations found in the "Structural Review and Retrofit Strategy Report", as prepared by *Cornerstone Structural Engineering Group (CSEG)*, dated May 18, 2018, and discussions with the District.

The anticipated tank work will include a full recoat of the tank interior and exterior, appurtenance retrofits/replacements and rafter replacement. This scope of work assumes we will not be able to conduct an "out-of-service" tank inspection of the interior. Therefore, the structural work on the tank will assume full rafter replacement along with minor repair details should the rafters prove to be in good condition following the initial blast during construction.

Scope of Work

Task 1.0 - Various Meetings (Field / Design) / Project Management

Our Team will schedule and attend a kickoff / field meeting with District operation personnel to visit the tank site and identify appurtenance replacements/additions the District desires. This task also includes design review meetings in addition to various project management duties throughout the project.

Deliverables: Meeting minutes as necessary

Task 2.0 – 65% Plans, Specifications and Cost Estimate

Upon verifying the scope of work during the initial field meeting, our Team will prepare the 65% PS&E. Exhibit type plans (11x17) will be developed with sufficient detail to delineate work to be performed along with structural repair/retrofit details. The design drawings will be prepared in AutoCAD Civil 3D 2017. This submittal will also include a preliminary cost estimate based on our experience with recent tank improvement projects. The preliminary plans, specifications and cost estimate will be submitted to the District for review with our Team fully participating in the review process.

Deliverables: 65% plans, specifications and cost estimate



Task 3.0 – 95% Plans, Specifications and Cost Estimate

The 65% plans will be carried to 95% completion by adding details, additional notes, and addressing District and other agency comments along with preparing 95% technical specifications and cost estimate. The specifications will be in Microsoft Word format and will be incorporated into the District's "boilerplate" to produce final bid documents. Bid quantities will be estimated for each item of work and a cost estimate prepared based on unit prices for each item. Unit prices will be determined based on recent bid tabulations from similar projects, job cost media such as Means, and discussions with local contractors.

Deliverables: 95% plans, specifications and cost estimate

Task 4.0 – Final Plans, Specifications and Cost Estimate

Upon receiving 95% review comments, each comment will be reviewed, discussed, and addressed. Appropriate modifications will be made to the plans, technical specifications, and cost estimates. The plans (22x34) and specifications will be finalized for the project including all notes/details and incorporating all comments received.

Deliverables: Final plans, specifications and cost estimate for bid purposes

Task 5.0 – Advertise and Award Period

Our Team will provide technical assistance to District staff during the advertising period which will include up to five written responses to bidder's inquiries. This includes preparing contract addenda and attending a pre-bid conference and site visit.

Deliverables: Written responses to inquires and addenda

Budget

TASK	DESCRIPTION	Principal		Project Engineer II		TOTALS	
		HR	COST	HR	COST	HRS	COST
	Hourly Rate:		\$190.00		\$145.00		
1.0	Various Meetings (Field / Design) / Project Management	4	\$760	40	\$5,800	44	\$6,560
2.0	65% PS&E	4	\$760	80	\$11,600	84	\$12,360
3.0	95% PS&E	4	\$760	60	\$8,700	64	\$9,460
4.0	Final PS&E	2	\$380	20	\$2,900	22	\$3,280
5.0	Advertise & Award Period	4	\$760	20	\$2,900	24	\$3,660
Total Labor		18	\$3,420	220	\$31,900	238	\$35,320
Coating Subconsultant (DB Gaya)							\$3,300
Structural Subconsultant (CSEG)							\$27,500
Contractor Consultation							\$2,000
5% Direct Expense Fee (Mileage, Copies, Plots, Etc)							\$1,766
Total Budget							\$69,886



Schedule

Task 1.0	Various Meetings	Throughout the project
Task 2.0	65% PS&E	Within 40 working days of the Notice to Proceed
Task 3.0	95% PS&E	Within 20 working days of the District's 65% review
Task 4.0	Final PS&E	Within 10 working days of the District's 95% review
Task 5.0	Advertise / Award Period	As needed

Thank you for the opportunity to assist the District on this project, should you have any questions please do not hesitate to contact me.

Very truly yours,

Pakpour Consulting Group, Inc.



Brandon Laurie, P.E.
Project Engineer

J:\Projects\CCWD - 10034.00\08-Alves Tank Rehabilitation\Contract\Agency\08-CCWD-Dickson-18.09.25-Alves Tank Improvements Proposal.docx



STAFF REPORT

To: Coastside County Water District Board of Directors
Via David Dickson, General Manager

From: James Derbin

Agenda: November 13, 2018

Report

Date: November 8, 2018

Subject: PAX Water Technologies Tank Mixers

Recommendation:

Waive the requirement in Resolution 2016-09 to obtain sealed competitive bids for the purchase of equipment and supplies exceeding \$30,000 and authorize staff to purchase 4 PAX Water Technologies tank mixers to reduce the level of regulated Trihalomethanes (THMs) in the water distribution system at a cost of \$110,000.

Background:

Historically the District has experienced elevated THM levels throughout the distribution system due to water age and stratification within the finished water tanks. In an effort to maintain distribution system THM levels well below the Maximum Contaminant Level (MCL) of 80 parts per billion, staff has previously installed PAX tank mixers in both El Granada tanks 1 and 2 with positive results in reducing THM levels well below the MCL.

In 2018, PAX completed a THM reduction study for the District based on past sample results and modeling water age throughout the distribution system. PAX recommended a three-pronged approach with tank mixing, aeration and active venting of the tanks at an estimated cost of \$388,709. Staff suggests the District take a more gradual approach to THM management and start with adequate tank mixing in Half Moon Bay tanks 1, 2, and 3 and Denniston. Staff is confident that tank mixing will reduce the formation of post treatment THMs right after the water is produced at the Denniston and Nunes water treatment plants by roughly 8-10%.

The requested mixers are as follows:

Tank	Volume in MG	Mixer	Price
HMB 1	0.4	PAX PWM 150	\$18,300/ea
HMB 2	0.6	PAX PWM 150	\$18,300/ea
HMB 3	1.5	PAX PWM 400	\$32,350/ea
Denniston	1.5	PAX PWM 400	\$32,350/ea

STAFF REPORT

Agenda: November 13, 2018

Subject: PAX Water Technologies Mixers

Page Two

Total cost of the mixers, including tax and shipping, is approximately \$110,000.

Staff recommends sole source procurement of the PAX mixers based on our research showing that the proprietary PAX technology provides the most effective tank mixing and THM reduction and on the results achieved with PAX mixers in El Granada Tanks 1 and 2.

Fiscal Impact:

This project is included in the approved FY 18/19 CIP budget in the amount of \$120,000 entitled "Tanks - THM Control".

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Mary Rogren, Assistant General Manager

Agenda: November 13, 2018

Report

Date: November 9, 2018

Subject: Resolution Adopting a Surplus Property Policy for the Coastside County Water District

Recommendation:

Approve Resolution No. 2018-10, A Resolution of the Board of Directors of the Coastside County Water District Adopting the Coastside County Water District Surplus Property Policy.

Background:

From time to time, the District has surplus equipment, other than real property, that is no longer needed or useable by the District. This policy authorizes the General Manager to dispose of surplus property with a net book value of less than \$15,000.

The policy also provides for the methods of disposition. District staff and families and Board members are prohibited from receiving surplus property offered for sale or otherwise disposed by the District.

RESOLUTION NO. 2018-10

A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE COASTSIDE COUNTY WATER DISTRICT
ADOPTING THE COASTSIDE COUNTY WATER DISTRICT SURPLUS PROPERTY
POLICY

WHEREAS, from time to time, the Coastside County Water District has surplus property, other than real property, and that is no longer needed or useable by the District; and

WHEREAS, Section 31041 of the California Water Code provides that a county water district may hold, use, enjoy, lease, or dispose of property within or without the district necessary to the full exercise of its powers; and

WHEREAS, the Coastside County Water District's Board of Directors desires to adopt a Policy for the handling the disposition of surplus property.

NOW THEREFORE BE IT RESOLVED:

By the Coastside County Water District's Board of Directors, that the Coastside County Water District's Surplus Property Policy incorporated herein as Exhibit A is hereby approved by the Coastside County Water District's Board of Directors.

PASSED AND ADOPTED THIS ___ day of November 2018, by the following votes:

Ayes:

Noes:

Absent:

Robert C. Feldman, President
Board of Directors

ATTEST:

APPROVED:

David R. Dickson, General Manager
Secretary of the District

Patrick Miyaki
Attorney

Exhibit A
COASTSIDE COUNTY WATER DISTRICT SURPLUS PROPERTY POLICY
Adopted: _____

Determination of Surplus Property

Sections 31041 of the California Water Code (County Water District Law) authorizes the District to dispose of surplus property. The term "surplus property" shall mean any property, other than real property, that is no longer needed or useable by the District, as determined by the General Manager. The General Manager is authorized to dispose of surplus property with a net book value of less than \$15,000. All other determinations of surplus property will be presented to the Board for its review and approval prior to disposition of the property.

Methods of Disposition

The General Manager is responsible for the disposition of District surplus property. The General Manager shall determine which of the following methods of disposition to use:

1. Trade-In – Property declared as surplus may be offered as a trade-in for credit toward the acquisition of new property. All trade-in offers will be submitted for the review and approval of the General Manager.
2. Return to Manufacturer – Surplus property may, when possible, be returned to the manufacturer for buy-back or credit toward the purchase of new property.
3. Sale – The District may offer surplus property for sale. All surplus property is for sale "as-is" and "where-is" with no warranty, guarantee, or representation of any kind, expressed or implied, as to the condition, utility, or usability of the property offered for sale. Appropriate methods of sale are as follows:
 - a. Public Auction – Surplus property may be sold at public auction. The District may contract with a professional auctioneer.
 - b. Sealed Bids – Sealed bids may be solicited for the sale of surplus property. Surplus property disposed of in this manner shall be sold to the highest responsive bidder.
 - c. Negotiated Sale – Surplus property may be sold directly to a purchaser if it is determined that only one known buyer is available or interested in acquiring the property.
 - d. Selling for Scrap – Surplus property with a minimal fair market value may be sold as scrap.
4. Donation or Disposal – If the District is unable to sell surplus property after using the methods provided in sections 1 through 3, above, or if the cost of locating a buyer exceeds the estimated sale price of surplus property, the property may be donated to a charitable organization, recycled, destroyed, or disposed of as junk.

Proceeds

All sales of surplus property shall be paid to the District by certified check, money order, or in manner agreeable to the General Manager. The General Manager shall be authorized to sign bills of sale and any other documents evidencing the transfer of title to such surplus property by and on behalf of the District.

District Staff and Directors

District staff and families (spouses and children) and Board members are prohibited from receiving surplus property offered for sale or otherwise disposed by the District.

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Mary Rogren, Assistant General Manager

Agenda: November 13, 2018

Report

Date: November 9, 2018

Subject: Quarterly Financial Review

Recommendation:

Information Only.

Background:

The attached Period Budget Analysis summarizes year-to-date revenue and expenses for the first three months of Fiscal Year 2018-2019. Key highlights include:

- Year-to-date revenue is \$301,000 above budget due to higher water sales (primarily with irrigation and agricultural customers.)
- Year-to-date expenses are \$195,000 over budget, including:
 - Water purchased from SFPUC is \$377,000 higher than budget, primarily due to our inability to utilize local source water this summer at Denniston.
 - Personnel related costs are \$79,000 underbudget due to vacancies and the partial service retirement of the General Manager resulting in a reduction of his salary expenses.
 - Other savings of \$103,000 primarily reflect expense timing as compared to budget.
- Year-to-date loan payments are \$50,000 under budget due to the refinancing of the District's 2006 Series B Bonds that occurred in July, 2018.

COASTSIDE COUNTY WATER DISTRICT - PERIOD BUDGET ANALYSIS
30-Sep-18

ACCOUNT	DESCRIPTION	YTD BUDGET	YTD ACTUAL	Variance Favorable (Unfavorable)	% Variance
OPERATING REVENUE					
1-0-4120-00	Water Revenue -All Areas	3,533,534.00	3,834,462.34	300,928.34	8.5%
TOTAL OPERATING REVENUE		3,533,534.00	3,834,462.34	300,928.34	8.5%
NON-OPERATING REVENUE					
1-0-4170-00	Water Taken From Hydrants	12,500.00	22,880.45	10,380.45	83.0%
1-0-4180-00	Late Notice -10% Penalty	15,000.00	9,625.72	(5,374.28)	-35.8%
1-0-4230-00	Service Connections	2,500.00	3,231.16	731.16	29.2%
1-0-4920-00	Interest Earned	1,559.00	1,501.63	(57.37)	-3.7%
1-0-4930-00	Tax Apportionments/Cnty Checks	0.00	1,602.90	1,602.90	
1-0-4950-00	Miscellaneous Income	6,250.00	0.00	(6,250.00)	-100.0%
1-0-4955-00	Cell Site Lease Income	41,250.00	39,894.41	(1,355.59)	-3.3%
1-0-4965-00	ERAF REFUND -County Taxes	0.00	0.00	0.00	0.0%
TOTAL NON-OPERATING REVENUE		79,059.00	78,736.27	(322.73)	-0.4%
TOTAL REVENUES		3,612,593.00	3,913,198.61	300,605.61	8.3%
OPERATING EXPENSES					
1-1-5130-00	Water Purchased	675,000.00	1,051,879.39	(376,879.39)	-55.8%
1-1-5230-00	Pump Exp, Nunes T P	10,674.00	13,115.32	(2,441.32)	-22.9%
1-1-5231-00	Pump Exp, CSP Pump Station	119,689.00	111,943.52	7,745.48	6.5%
1-1-5232-00	Pump Exp, Trans. & Dist.	6,741.00	6,567.03	173.97	2.6%
1-1-5233-00	Pump Exp, Pilarcitos Canyon	750.00	681.57	68.43	9.1%
1-1-5234-00	Pump Exp. Denniston Proj.	32,500.00	18,871.25	13,628.75	41.9%
1-1-5242-00	CSP Pump Station Operations	2,675.00	3,078.28	(403.28)	-15.1%
1-1-5243-00	CSP Pump Station Maintenance	9,250.00	3,458.26	5,791.74	62.6%
1-1-5246-00	Nunes T P Operations	19,462.00	29,714.49	(10,252.49)	-52.7%
1-1-5247-00	Nunes T P Maintenance	30,625.00	11,244.55	19,380.45	63.3%
1-1-5248-00	Denniston T.P. Operations	11,750.00	5,324.18	6,425.82	54.7%
1-1-5249-00	Denniston T.P. Maintenance	25,463.00	18,523.98	6,939.02	27.3%
1-1-5250-00	Laboratory Services	17,862.00	16,955.99	906.01	5.1%
1-1-5260-00	Maintenance -General	72,925.00	71,788.26	1,136.74	1.6%
1-1-5261-00	Maintenance -Well Fields	10,000.00	0.00	10,000.00	100.0%
1-1-5263-00	Uniforms	8,000.00	8,127.76	(127.76)	0.0%
1-1-5318-00	Studies/Surveys/Consulting	30,000.00	22,425.00	7,575.00	25.3%

ACCOUNT	DESCRIPTION	YTD BUDGET	YTD ACTUAL	Variance Favorable (Unfavorable)	% Variance
1-1-5321-00	Water Resources	6,300.00	2,397.72	3,902.28	61.9%
1-1-5322-00	Community Outreach	7,000.00	1,096.27	5,903.73	84.3%
1-1-5381-00	Legal	25,000.00	12,335.50	12,664.50	50.7%
1-1-5382-00	Engineering	15,000.00	6,440.00	8,560.00	57.1%
1-1-5383-00	Financial Services	5,000.00	2,410.00	2,590.00	51.8%
1-1-5384-00	Computer Services	39,000.00	43,798.30	(4,798.30)	-12.3%
1-1-5410-00	Salaries/Wages-Administration	261,665.00	219,340.51	42,324.49	16.2%
1-1-5411-00	Salaries & Wages -Field	323,200.00	304,040.62	19,159.38	5.9%
1-1-5420-00	Payroll Tax Expense	41,016.00	39,009.37	2,006.63	4.9%
1-1-5435-00	Employee Medical Insurance	106,617.00	108,125.62	(1,508.62)	-1.4%
1-1-5436-00	Retiree Medical Insurance	12,114.00	9,883.24	2,230.76	18.4%
1-1-5440-00	Employees Retirement Plan	149,715.00	134,822.66	14,892.34	9.9%
1-1-5445-00	Supplemental Retirement 401a	0.00	0.00	0.00	0.0%
1-1-5510-00	Motor Vehicle Expense	15,000.00	16,035.96	(1,035.96)	-6.9%
1-1-5620-00	Office Supplies & Expense	65,400.00	61,657.79	3,742.21	5.7%
1-1-5625-00	Meetings / Training / Seminars	6,500.00	6,550.01	(50.01)	-0.8%
1-1-5630-00	Insurance	32,250.00	31,811.24	438.76	1.4%
1-1-5687-00	Membership, Dues, Subscript.	12,000.00	18,703.40	(6,703.40)	-55.9%
1-1-5688-00	Election Expenses	10,000.00	0.00	10,000.00	0.0%
1-1-5689-00	Labor Relations	1,500.00	0.00	3,000.00	200.0%
1-1-5700-00	San Mateo County Fees	0.00	0.00	0.00	
1-1-5705-00	State Fees	0.00	0.00	0.00	
TOTAL OPERATING EXPENSES		2,217,643.00	2,412,157.04	(194,514.04)	-8.8%
CAPITAL ACCOUNTS					
1-1-5712-00	Debt Svc/Existing Bonds 2006B	366,963.00	(1,812.44)	368,775.44	0.0%
1-1-5715-00	Debt Svc/CIEDB 11-099 (I-BANK)	264,527.00	264,523.92	3.08	0.0%
1-1-5716-00	Debt Svc/CIEDB 2016 (I-BANK)	231,498.00	231,497.84	0.16	0.0%
1-1-5717-00	Chase Bank - 2018 Loan	0.00	318,974.12	(318,974.12)	
TOTAL CAPITAL ACCOUNTS		862,988.00	813,183.44	49,804.56	5.8%
TOTAL EXPENSES		3,080,631.00	3,225,340.48	(144,709.48)	-4.7%
CONTRIBUTION TO CIP/RESERVES		531,962.00	687,858.13		

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Mary Rogren, Assistant General Manager

Agenda: November 13, 2018

Report

Date: November 9, 2018

Subject: Assistant General Manager's Report

Recommendation: none

Background:

WaterSmart Update

During the month of October, the District officially launched the WaterSmart web portal to all customers District-wide. Our launch included:

- **October 1:** Our District website was updated to include links to sign-up for WaterSmart.
- **October 5:** A post card introducing WaterSmart was mailed to all District's customers (see attached.)
- **October 10:** An ad was placed in the Half Moon Bay Review introducing WaterSmart.
- **October 13 - Pumpkin Festival:** WaterSmart signage and materials were prominently displayed at the District's table
- **November 5:** A follow-up Constant Contact e-mail was sent out to our customers.

WaterSmart has been very well-received by our customers. As of this writing, we have 430+ customers who have signed up to date. In addition, District Staff continues to contact many of our customers with possible leaks as a courtesy (averaging 70 customers per month; 600+ total contacts since March 2018.)

Coastside County Water District is excited to introduce customers to **WaterSmart**, an innovative web portal where you can access detailed information about your water use.

It's part of the District's commitment to provide customers with tools to better manage water use and to prevent high water bills caused by irrigation and leaks.



Coastside County Water District
766 Main Street
Half Moon Bay, CA 94019

Presorted
First Class
Mail
U.S. Postage
PAID
Permit No. 1
Half Moon Bay, CA
94019



Customers no longer need to wait for a billing statement to see how much water they have used.

Coastside County Water District recently partnered with WaterSmart Software to offer customers access to a free web portal.



View hourly and daily water usage.

Set up high usage alerts.

Compare your water usage with similar sized homes in your neighborhood.

To register for the free web portal, go to the WaterSmart sign up page. Make sure you have your water account number and email address.

<https://coastsidewater.watersmart.com>



To learn more about the District's advanced metering program and to access a link to the WaterSmart web portal registration page, you can go to the District's website.

<http://www.coastsidewater.org/watersmart.html>

Email your questions to watersmart@coastsidewater.org

Coastside County Water District



WATERSMART IS HERE!

Customers have been asking about a tool like this and Coastside County Water District was listening.

Introducing **WaterSmart** an innovative web portal where you can access information about your water use.

The District has partnered with **WaterSmart** Software to offer customers access to a free web portal. To register, you need your water account number and email address. If you haven't received a direct link from the District, you will also need your billing zip code

- View hourly reads (laptop or desktop computer only)
- View daily water usage
- Set-up high usage alerts
- Compare your water usage with similar sized homes in your neighborhood
- Learn how much water is used when you irrigate

Questions?

watersmart@coastsidewater.org

[Click here to learn more](#)

[Click here to register](#)

!WaterSmart disponible en español!

Para registrarse en el portal web gratuito, vaya a la pagina de registro de **WaterSmart**. Asegurate de tener su numero de cuenta de agua y direccion de correo electronico.

<https://coastsidewater.watersmart.com>



MONTHLY REPORT

To: David Dickson, General Manager
From: James Derbin, Superintendent of Operations
Agenda: October 9, 2018

**Report
Date:** October 3, 2018

Monthly Highlights

- Additional operations staff member recently passed the DMV commercial B license driving test
- Replaced fire hydrant at Oak/Pilarcitos
- Replaced 27 angle stops to facilitate installation of a portion of the remaining AMI meter change outs
- Installed an insertion flow probe into the lower Pilarcitos pipeline to monitor flow rates while blending
- 2018 Lead and Copper sampling was a success, results expected in next few weeks

Source of Supply

- Crystal Springs/Pilarcitos Reservoirs were the sources of supply in September

Projects

- 2018 Denniston Reservoir Dredging complete
- Pacific Ridge Phase 3 ~2,000' water main installed, ~500' more to go
- Downtown 2" Main Replacement Project - Paving complete, striping pending City approval
- New CSP 500 Hp motor installed
- Denniston pump station transformer upgrade started
- Slide Gate for Denniston Reservoir large spillway arrived damaged. Sent back to manufacturer for repair/rebuild.

MONTHLY REPORT

To: David Dickson, General Manager
From: James Derbin, Superintendent of Operations
Agenda: November 13, 2018

Report
Date: November 7, 2018

Monthly Highlights

- Replaced 4 fire hydrants
 - Miramontes/Alsace Lorraine
 - Alsace Lorraine/Valdez
 - Saint Joseph St.
 - Beach Ave.
- Replaced 21 angle stops to facilitate AMI meter change outs
- Rebuilt Pilarcitos Pressure Reducing Valve (PRV) with new sensing lines, vault and lid
- Replaced HMB tank #3 tank center vent
- Dive inspection and cleaning of EG2 and 3 tanks and dive inspection of the Nunes WTP clear well.
- Replaced failed mag meter on Denniston WTP surface wash
- 2018 Lead and Copper sampling results letters mailed to participating customers

Source of Supply

- Crystal Springs/Pilarcitos Reservoirs were the sources of supply in October. Currently

Projects

- 2" South Highway 1 emergency replacement project started November 5th
- ERS topped off Denniston filters, repairing failed upper screen in contact Clarifier #2 and replacing media in November
- Pacific Ridge Phase 3 water main installation complete
- Downtown 2" Main Replacement Project complete
- Denniston pump station transformer upgrade nearing completion. Awaiting PGE final and setting new transformer

- Slide gate for Denniston Reservoir large spillway arrived damaged last month. Unit sent back to manufacturer for repair and returned. Contractor will install in November.
- El Granada 2" project out to bid

STAFF REPORT

To: Board of Directors

From: Cathleen Brennan, Water Resources Analyst

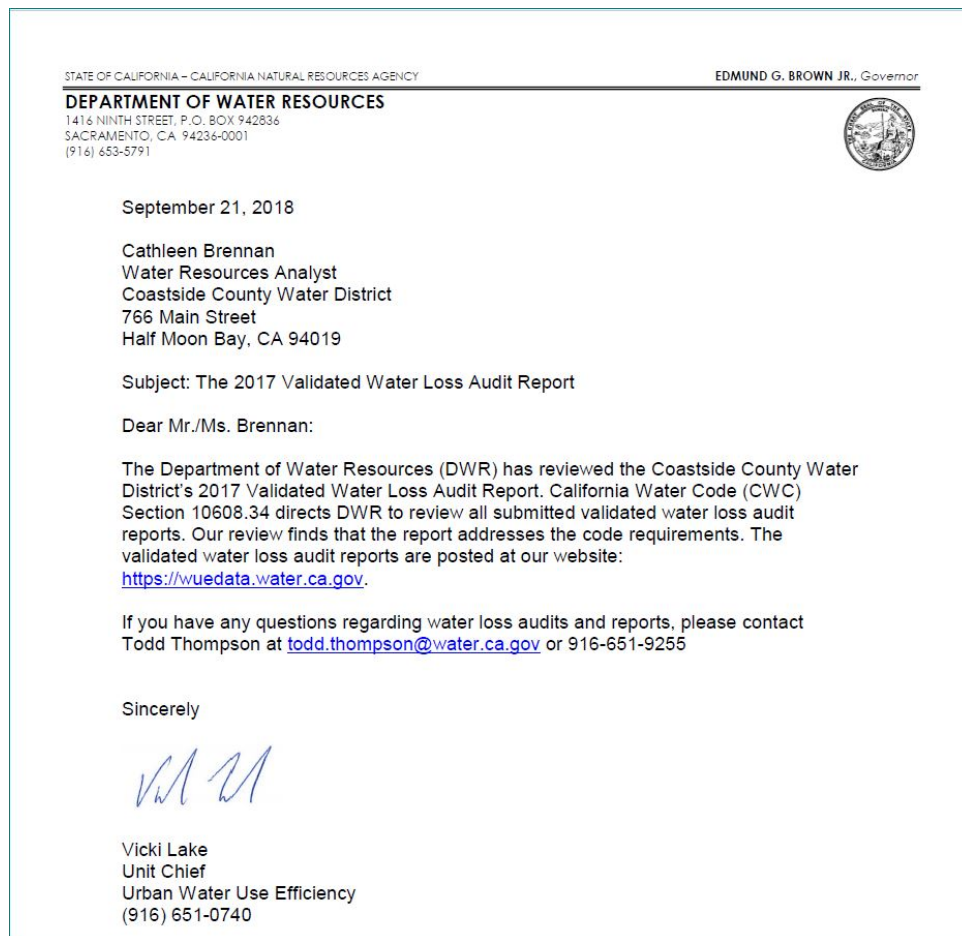
Agenda: November 13, 2018

Report: November 6, 2018

Subject: Water Resources Informational Report

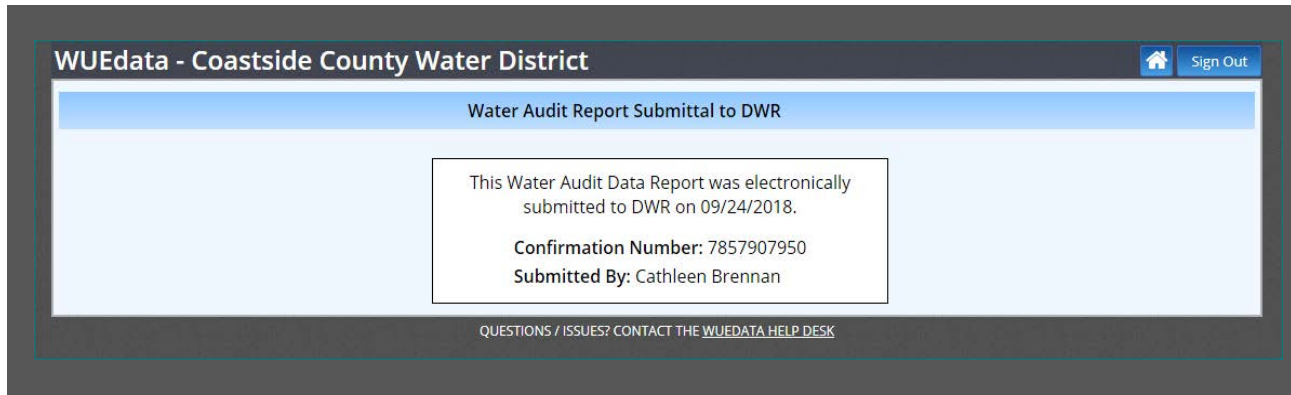
State of California Water Loss Control Program

The District received notification that the California Department of Water Resources found that the submitted 2017 (fiscal year) validated water loss audit report met the requirements of the California Water Code.



On September 24th, the District electronically submitted the 2018 (fiscal year) water audit report. The District used Water Systems Optimization to validate the audit, through a subscription with the Bay Area Water Conservation Agency (BAWSCA). A screen shot of the confirmation is shown below.

Other than the level 1 validation, there are no performance standards that must be met for the audit. This will change with future water audits, as the State Water Resources Board and the Department of Water Resources are currently working on developing performance standards. The rule making process for the new performance standards should be completed sometime in 2019.



Submitted water agency water audit data (spreadsheets) are available to the public for review at the link below.

http://wuedata.water.ca.gov/awwa_plans

An infographic titled 'Water Loss Control' featuring a central hexagonal diagram with six surrounding images. The central hexagon contains the text 'Strengthen Local Drought Resilience'. The surrounding hexagons contain: 'Use Water More Wisely' (with a hand holding a water drop), 'Eliminate Water Waste' (with a city skyline), 'Improve Agricultural Water Use Efficiency & Drought Planning' (with a field of crops), and two unlabeled hexagons with images of a person and a landscape. To the right of the infographic is a text block:

Water Loss Control is a key conservation strategy of the California Water Action Plan that aims for improved water supply reliability across California.

Senate Bill 555 requires the State Water Board to develop water loss performance standards for urban retail water suppliers between January 2019 and July 2020. The State Water Board is required to evaluate the life-cycle cost of achieving these standards. The standards will incorporate local and operational conditions to determine economically achievable water loss reduction for each urban retail water supplier.

Executive Orders B-37-16 and B-40-17 further direct the State Water Board and Department of Water Resources (DWR) to minimize water waste through system leaks.

More information about the state's water loss control program can be found at https://www.waterboards.ca.gov/water_issues/programs/conservation_portal/water_loss_control.html

The District received a certificate of appreciation for our partnership with the EPA WaterSense Program which promotes the installation of water efficient fixtures.

More information about the EPA WaterSense Program can be found at <https://www.epa.gov/watersense>

