

CRESCENTA VALLEY WATER DISTRICT

**2700 Foothill Boulevard
La Crescenta, California**

**Agenda for the
Adjourned Regular Meeting of the Board of Directors
of the Crescenta Valley Water District
to be held on Tuesday, August 24, 2021, at 7:00 p.m.**

Posted: Friday, August 20, 2021, at 3:30 p.m.

AUDIO & VIDEO CONFERENCING NOTICE

[This meeting will be held by audio & video conference only.]

Pursuant to the provisions of Executive Order N-08-21 issued by Governor Gavin Newsom on June 11, 2021, a local legislative body is authorized to hold public meetings via teleconference.

Any member of the public may participate using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increased phone traffic)

(669) 900-6833

(346) 248-7799

(929) 205-6099

(253) 215-8782

(301) 715-8592

(312) 626-6799

Then, enter Access Code: 852 5550 5317

Those members of the public who are able to and would like to additionally participate through computer may access the Zoom audio & video conferencing tool available at the following link –

<https://us02web.zoom.us/j/85255505317>

Public comment may be made either by emailing comments ahead of the meeting or by speaking over the phone. Emailed comments will be sent to the Board of Directors prior to the meeting and posted on the District's website. Comments may be sent to Christy Colby, Regulatory and Public Affairs Manager, at (818) 248-3925 or customerservice@cvwd.com by 3pm on August 24, 2021.

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at the above email address. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Any written materials distributed to the Board in connection with this agenda will be made available at the same time for public inspection at the District office located at the above address and posted on the District's website.

Call to Order and Determination of Quorum

Pledge of Allegiance

Adoption of Agenda

Public Comments

At this time, the public shall have an opportunity to comment on any non-agenda item relevant to the subject matter jurisdiction of the Board. This opportunity is non-transferable, and speakers are limited to one three-minute (3) comment. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Foothill Municipal Water District Report

1. Report on activities at Foothill Municipal Water District.

Consent Calendar

1. Consideration and approval of the Minutes of the Special Board Meeting on July 20, 2021.
2. Consideration and approval of the Minutes of the Adjourned Regular Board Meeting on July 27, 2021
3. Ratification of Disbursements for July 2021.

Action Calendar

The public shall have an opportunity to comment on any action item as each item is considered by the Board. This opportunity is non-transferable, and speakers are limited to one two-minute (2) comment.

1. **Award of Contract for Procurement and Installation of AMI Customer Engagement Portal, Project E-1035** – Consideration and motion to authorize the General Manager to enter into an agreement with WaterSmart Software, Inc. for the procurement and installation of AMI Customer Engagement Portal at a cost of \$36,786 and establish a contingency amount of \$3,729 (10% of contract) to cover the cost of unforeseen or additional work.
2. **Consideration and Motion to move the current Water Conservation Alert from Phase 1 “Blue” to Phase 2 “Green”**
3. **City of Glendale Mutual Aid and Assistance Agreement** – Consideration and motion to authorize the General Manager enter into a Mutual Aid and Assistance Agreement with the City of Glendale.
4. **Wastewater Collection System Presentation** – Discussion of the second part of a multi-part overview and history of CVWD’s Wastewater Collection System.
5. **Budget Schedule & Proposition 218 Process** – Placeholder for discussion and possible action for schedule, timing, and other considerations related to completing the budget and Proposition 218

Information Items

Written Communications to District/Board of Directors

General Manager's Report

Attorney Report

Reports of Committees

- Engineering Committee
- Finance Committee
- Employee Relations Committee
- Policy Committee
- Community Relations/Water Conservation Committee
- Emergency Planning Committee
- Technology Committee

Directors' Oral Reports – Reports on issues, meetings, or activities attended by Directors.

Board Members' Request for Future Agenda Items

Closed Session – None

Adjournment

CRESCENTA VALLEY WATER DISTRICT

Teleconference Meeting

July 20, 2021

A Special Meeting of the Board of Directors was held on July 20, 2021, at 5:00 p.m. through audio and video conference. A call-in number was clearly noted on the meeting Agenda, posted in accordance with the Brown Act, due to the COVID-19 pandemic, with President Sharon S. Raghavachary presiding.

At roll call, the following Directors and staff members were online:

Directors:	Sharon S. Raghavachary James D. Bodnar Kerry D. Erickson Kenneth R. Putnam Judy L. Tejeda
Attorney:	Tom Bunn
General Manager:	Nem Ochoa - absent
Director of Finance & Administration:	James Lee
Director of Engineering:	David S. Gould
Staff Members:	Christy Colby, Regulatory & Public Affairs Manager Wendy Holloway, Customer Service Manager Arturo Montes, Finance & Administration Manager Brook Yared, Engineering Manager Pam Leddy, Administrative Assistant Tessa Allmon, Customer Service Representative
Guests:	John Wright, Raftelis Sudhire Pardiwala, Raftelis
Public Participation:	Frank Colcord Marilyn Tyler

PLEDGE OF ALLEGIANCE

Mr. Lee opened the meeting by leading the Board and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA

It was moved by Director Tejeda, seconded by Director Erickson and carried by a roll call vote that the Agenda for the Special Meeting of July 20, 2021, be adopted as presented.

AYES:	Director Tejeda Director Bodnar Director Putnam Director Raghavachary Director Erickson
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NOES:	None
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PUBLIC COMMENT – None

ACTION CALENDAR

Review Draft Cost of Service Study – Mr. John Wright and Mr. Sudhire Pardiwala from Raftelis, presented for discussion and review the draft Water and Wastewater Rate study.

Following discussion:

The Board directed Raftelis to make revisions to the Water and Wastewater Cost of Service Study and requested that Raftelis provide the updated study at the July 27, 2021 Board meeting for approval.

Proposition 218 Notice - Ms. Colby presented for discussion and review of the Proposition 218 Notice to inform customers about proposed changes in the water and wastewater rates and allow the customers an opportunity to protest the proposed rate increases as outlined in the provisions of Proposition 218.

Following discussion:

The Board directed staff to make revisions to the Proposition 218 Notice before approval. The final draft of the Proposition 218 Notice will be included in the July 27, 2021 Board Meeting Packet for approval by the Board of Directors.

Closed Session – None

ADJOURNMENT

There being no other business to come before the Board, at 8:00 p.m., the Special Meeting was adjourned.

APPROVED:

Sharon S. Raghavachary
President

James Lee
Director of Finance & Administration

CRESCENTA VALLEY WATER DISTRICT
ADJOURNED REGULAR MEETING, BOARD OF DIRECTORS

July 27, 2021

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District made at the Regular Meeting on July 13, 2021, an Adjourned Regular Meeting was held on July 27, 2021, at 7:00 p.m. through audio and video conference. A call-in number was clearly noted on the meeting Agenda, posted in accordance with the Brown Act, due to the COVID-19 pandemic, with President Sharon S. Raghavachary presiding.

At roll call, the following Directors and staff members were online:

Directors: Sharon S. Raghavachary
James D. Bodnar
Kerry D. Erickson
Ken R. Putnam
Judy L. Tejeda

Attorney: Thomas Bunn

General Manager: Nem Ochoa

Director of Finance & Administration: James Lee

Director of Engineering: David Gould

Staff Members: Brook Yared, Engineering Manager
Arturo Montes, Finance & Administration Manager
Christy Colby, Regulatory & Public Affairs Manager
Wendy Holloway, Customer Service Manager
Tessa Allmon, Customer Service Representative
Darlene Telles, Operations Coordinator
Pam Leddy, Administrative Assistant

Public Participation: Frank Colcord
Marilyn Tyler

PLEDGE OF ALLEGIANCE

David Gould opened the meeting by leading the Directors and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA

It was moved by Director Bodnar, seconded by Director Raghavachary, and carried by a 5-0 roll call vote that the Agenda for the Adjourned Regular Meeting of July 27, 2021, be adopted as presented.

AYES: Director Raghavachary
Director Bodnar
Director Erickson
Director Putnam
Director Tejeda

NOES: None

PUBLIC COMMENTS – None

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – No report

CONSENT CALENDAR

It was moved by Director Tejeda, seconded by Director Raghavachary, and carried by a 5-0 roll call vote to approve the Minutes of the Regular Board Meeting held on July 13, 2021, through audio and video conference and to ratify the disbursements for June 2021 as presented.

Payment of demands against the Crescenta Valley Water District on or before June 2021, the same having been approved by the General Manager, and heretofore paid, are to be ratified and approved subject to audit, in the aggregate sum of One Million, Ninety-Two Thousand, Three-Hundred Fifty-Eight Dollars and Forty-Two Cents (1,092,358.42), which is composed of the individual items set forth herein.

**AYES: Director Raghavachary
 Director Bodnar
 Director Erickson
 Director Putnam
 Director Tejeda**

NOES: None

ACTION CALENDAR

Cost-of-Service Study Report – Mr. Ochoa presented the Water and Wastewater Cost of Service Study as prepared by Raftelis Financial Consultants for final receipt and filing. Mr. Ochoa stated that the comments received at the Special Board meeting held on July 20, 2021, had been incorporated into the report as presented.

Following discussion:

It was moved by Director Bodnar, seconded by Director Tejeda, and carried by 5-0 roll call vote to receive and file the Water and Wastewater Cost of Service Study Report as prepared by Raftelis Financial Consultants.

**AYES: Director Raghavachary
 Director Bodnar
 Director Erickson
 Director Putnam
 Director Tejeda**

NOES: None

Proposition 218 Notice – Ms. Colby presented the final draft of the Proposition 218 Notice for Proposed Water and Wastewater Rates and Charges. Ms. Colby stated that all comments received at the Special Board meeting held on July 20, 2021 had been incorporated into the final draft of the Proposition 218 Notice as presented.

Following discussion:

It was moved by Director Erickson, seconded by Director Tejeda, and carried by 5-0 roll call vote to approve the Proposition 218 Notice for mailing.

**AYES: Director Raghavachary
 Director Bodnar
 Director Erickson
 Director Putnam
 Director Tejeda**

NOES: None

Relief of High Water Bill – 5914 Canyonside Rd. – Mr. Lee presented an appeal from Janet Tenney, the property owner at 5914 Canyonside for possible action to grant a request for relief from a high water bill due to a leak on her property. Mr. Lee provided correspondence received from Ms. Tenney, water use graphs, and the water bills generated relating to the leak involved in the request for relief.

Following discussion:

It was moved by Director Bodnar, seconded by Director Tejeda, and carried by 3-1 roll call vote with one abstention to provide relief for the customer by recalculating the excess water usage at Tier 2 rates for this account to be consistent with recent Board actions.

**AYES: Director Bodnar
 Director Erickson
 Director Putnam**

NOES: Director Raghavachary

ABSTAIN: Director Tejeda

Pilot Program for the Replacement of Supervisory Control and Data Acquisition (SCADA) System, Project E-939 – Mr. Gould requested consideration to authorize the General Manager to enter into an agreement with Apex Manufacturing Services (APEX) to provide SCADA programing and integration services. Mr. Gould presented several options to accomplish the goal of upgrading CVWD's SCADA system by December 2022. Mr. Gould stated that it is the recommendation of staff to execute a pilot project

at two (2) well sites to better understand the details of equipment, programming, integration requirements, and projects before committing to a complete SCADA integration.

Following discussion:

It was moved by Director Erickson, seconded by Director Raghavachary, and carried by 5-0 roll call vote to authorize the General Manager to enter into an agreement with APEX to proceed with the SCADA Replacement Pilot Program at the cost of \$21,180 and establish a contingency amount of \$2,120 (10% of contract) to cover the cost of unforeseen or additional work. This project is exempt from the California Environment Quality Act (CEQA) pursuant to Section 15301 of the CEQA guidelines.

AYES: Director Raghavachary
Director Bodnar
Director Erickson
Director Putnam
Director Tejada

NOES: None

Budget Schedule & Proposition 218 Process – Mr. Montes presented the FY 2021-22 CVWD Meeting Schedule relating to the completion of the budget and Proposition 218 process. Mr. Montes highlighted meeting dates required in order to implement the adopted rates on October 1, 2021. Mr. Montes stated that the Proposition 218 Notice will be mailed to CVWD customers the week of August 2, 2021.

INFORMATION ITEMS – None

WRITTEN COMMUNICATIONS TO DISTRICT – None

REPORTS OF PERSONNEL – No report

GENERAL MANAGER – Mr. Ochoa announced that Kellen Boyce will be the spotlighted employee of the month on the CVWD website. Mr. Ochoa provided updates on the job posting and interviews for the Director of Operations position. Ms. Colby provided highlights of the Public Outreach Dashboard. Mr. Lee provided highlights of the Finance and Administration Dashboard

ATTORNEY – No report

REPORTS OF PERSONNEL – None

REPORTS OF COMMITTEES

Engineering Committee – Director Raghavachary reported that the Committee had met on July 20, 2021. An audio/video conference meeting is scheduled for August 17, 2021.

Finance Committee – Director Raghavachary reported that the Committee had met on July 14, 2021. An audio/video conference meeting will be scheduled as needed.

Employee Relations Committee – Director Bodnar reported that the Committee had not met; however, an audio/video conference will be scheduled as needed.

Policy Committee – Director Putnam reported that the Committee had not met; however, an audio/video conference will be scheduled as needed.

Community Relations/Water Conservation Committee – Director Erickson reported that the Committee had not met; however, an audio/video conference will be scheduled as needed.

Emergency Planning Committee – Director Tejeda reported that the Committee had not met; however, an audio/video conference meeting will be scheduled as needed.

Technology Committee – Director Erickson reported that the Committee had not met; however, an audio/video conference meeting is scheduled for July 28, 2021.

Executive Committee – Director Raghavachary reported that the Committee had not met; however, an audio/video conference meeting will be scheduled as needed.

DIRECTORS' ORAL REPORTS

Director Raghavachary – No report

Director Bodnar – Thanked staff for their assistance completing and mailing the 2021 Form 470 to the Los Angeles County Registrar/Recorder. Director Bodnar complimented staff on the completion of the Office remodel. Director Bodnar announced that he will not be attending the August 10, 2021 Board Meeting.

Director Erickson – No report

Director Putnam – No report

Director Tejeda – No report

BOARD MEMBERS' REQUESTS FOR FUTURE AGENDA ITEMS – None

CLOSED SESSION – None

ADJOURNMENT

There being no other business to come before the Board, at 8:45 p.m., the meeting was adjourned to August 10, 2021, at 7:00 p.m.

APPROVED

Sharon S. Raghavachary
President

James Lee
Director of Finance & Administration

CASH DISBURSEMENT LIST

July 2021



<u>Check#</u>	<u>Check Date</u>	<u>Payable To</u>	<u>Description</u>	<u>Water Amount</u>	<u>Wastewater Amount</u>
0	7/27/2021	CalPERS	PERS contributions - June 2021	22,766.84	12,473.84
0	7/6/2021	Los Angeles County Public Works	Excavation permits - June 2021	3,444.00	
0	7/26/2021	CalPERS	Annual Unfunded Accrued Liability as of June 30, 2019	1,942.20	1,294.80
0	7/26/2021	CalPERS	Annual Unfunded Accrued Liability as of June 30, 2019	206,005.80	137,337.20
0	7/26/2021	U.S. Bank	Bond debt service payment	46,520.00	
42885	7/6/2021	Aflac	Employee paid insurance - June 2021	1,320.62	
42886	7/6/2021	Consolidated Electrical Distributors, Inc.	Rosemont & Oak Creek - Exhaust fan parts for chlorine analyzers	2,130.82	99.97
42887	7/6/2021	Holly Cox	Refund check - 3240 Parkvista	95.91	
42888	7/6/2021	Cypress Ancillary Benefits	Group Dental - June 2021	2,169.55	1,309.85
42889	7/6/2021	Direct Connection	Printing/mailling Water Quality Report - June 2021	1,732.24	1,664.30
42890	7/6/2021	Morgen Durose	Reimbursement - Water Operator Training Handbook	115.76	
42891	7/6/2021	E Source Companies, LLC	E-1020 - AMI Consulting Services - May 2021	710.00	
42892	7/6/2021	Grace Environmental Services	Well #2 - monitoring assistance - May 2021	3,022.50	
42893	7/6/2021	Graybar Electric Co., Inc.	Well #12 - new electrical enclosure	631.84	
42894	7/6/2021	Henrik Keshishian	Refund check - 1941 Waltonia #301	42.30	
42895	7/6/2021	Lincoln Financial Group	Life & disability insurance - June 2021	842.80	561.87
42896	7/6/2021	LMS Electric	C-1030 - relocate electrical outlets	1,106.25	368.75
42897	7/6/2021	Arturo Montes	Reimbursement - safety boots, special licensing, licensing prep	1,622.01	174.50
42898	7/6/2021	Christina Olmedo	Reimbursement - Training for Public World Project Planning	877.99	292.66
42899	7/6/2021	Ken Pittman	Refund check - 3357 Los Olivos	7.52	
42900	7/6/2021	Spectrum Business	Glenwood, Lowell & Mills - Data Communication Coax - June 2021	420.27	147.64
42901	7/6/2021	St. Water Resources Control Brd.	Montes - Grade D-2 Certification fee	80.00	
42902	7/6/2021	The Gas Company	Glenwood - gas purchased - June 2021	43.97	13.88
42903	7/6/2021	Vision Service Plan Co.	Group vision - June 2021	246.33	164.22
42904	7/6/2021	Waste Management	Glenwood - disposal service - June 2021	918.30	289.97
42905	7/6/2021	Wells Fargo Card Services	Colby - recurring email charges, office appliances, staff training	2,440.86	282.07
42906	7/6/2021	Wells Fargo Card Services	Gould - working lunch, AWWA classes, excavation permit	675.46	64.58
42907	7/6/2021	Wells Fargo Card Services	Holloway - training, paint, sympathy floral arrangement	508.34	140.07
42908	7/6/2021	Wells Fargo Card Services	Lee - Zoom meetings, security system keypads, working lunches	595.38	162.07
42909	7/6/2021	Wells Fargo Card Services	Spare - oil change	25.54	15.40
42910	7/6/2021	Wells Fargo Card Services	Ochoa - working lunches, office furniture	678.69	448.10

42911	7/13/2021	ACWA Joint Powers Ins. Authority	Group health - June 2021	85,473.96	56,356.02
42912	7/13/2021	ACWA/JPIA	Excess Crime policy - annual renewal	450.00	450.00
42913	7/13/2021	ACWA/JPIA	Annual property program renewal	10,059.30	10,059.30
42914	7/13/2021	ADS, LLC	Monthly sewer monitoring - June 2021		1,100.00
42915	7/13/2021	Affordable Generator Services, Inc.	Semi annual maintenance service (7 generators)	2,279.85	
42916	7/13/2021	Aflac	Employee paid insurance - July 2021	1,320.62	
42917	7/13/2021	Airgas National Carbonation	Well #2 - carbon dioxide rental tank - July 2021	61.24	
42918	7/13/2021	Airgas USA, LLC	Misc. supplies - June 2021	472.90	234.97
42919	7/13/2021	American Tire Depot	Unit #43 - warranty work on brakes & rotors, new calipers	373.79	229.09
42920	7/13/2021	Anawalt Lumber & Materials Co.	Misc. hardware - June 2021	85.47	25.52
42921	7/13/2021	Aqua - Metric Sales Co.	E-1020 - AMI radio - support, training, setup - final payment	36,332.50	
42922	7/13/2021	ARC	Monthly MPS Billing - June 2021	135.67	45.22
42923	7/13/2021	Regino Avalos	Monthly landscaping at 6 sites - June 2021	859.03	195.97
42924	7/13/2021	Armond Bakijanian	Refund check - 2365 Teasley	31.92	
42925	7/13/2021	BC Laboratories, Inc.	Water Analysis - April/May 2021	4,429.50	
42926	7/13/2021	BC Laboratories, Inc.	Water Analysis - April/May 2021	3,475.10	
42927	7/13/2021	BC Laboratories, Inc.	Water Analysis - April/May 2021	1,656.00	
42928	7/13/2021	BC Laboratories, Inc.	Water Analysis - May/June 2021	2,028.75	
42929	7/13/2021	Bridgemore Solutions, Inc.	Consulting services for employee training/development- June 2021	12,792.38	2,620.12
42930	7/13/2021	Cannon	E-1021 - Construction inspection services - June 2021	7,945.00	1,154.25
42931	7/13/2021	CCS Interactive, Inc.	Monthly website hosting - July 2021	127.50	42.50
42932	7/13/2021	Costco	Misc. supplies - June 2021	146.02	133.42
42933	7/13/2021	City of Glendale	ULARA - Watermaster cost sharing - Jan./Feb./Mar. 2021	5,216.80	
42934	7/13/2021	City of Glendale Water & Power	Power purchased - June 2021	29,928.03	
42935	7/13/2021	Consolidated Electrical Distributors, Inc.	New Allen Bradley Programming Logic Controllers - 2 total	4,192.74	1,182.56
42936	7/13/2021	Core & Main	Well #10 - flow meter module	305.97	
42937	7/13/2021	County Clerk of Los Angeles	E-1034 - NOE Processing Fee	75.00	
42938	7/13/2021	County Clerk of Los Angeles	E-1033 - NOE Processing Fee	75.00	
42939	7/13/2021	County Clerk of Los Angeles	E-1036 - NOE Processing Fee	75.00	
42940	7/13/2021	County of Los Angeles	LAFCO allocation cost for FY 2021-2022	5,020.54	
42941	7/13/2021	Crescenta Valley Publishing, LLC	UWMP page display ad and Outreach page display ad	1,087.00	363.00
42942	7/13/2021	Cypress Ancillary Benefits	Group dental - July 2021	2,236.58	1,354.54
42943	7/13/2021	Michael Dillon	Refund check - 3725 Montrose	59.78	
42944	7/13/2021	DMV Renewal	Unit #32 - permanent trailer registration		10.00
42945	7/13/2021	DYI Home Center	Misc. hardware - June 2021	509.24	93.88
42946	7/13/2021	Eurofins Eaton Analytical, Inc.	Water analysis - June 2021	824.00	
42947	7/13/2021	Extreme Safety, Inc.	Misc. safety supplies - June 2021	60.55	24.73
42948	7/13/2021	Foothill Car Wash, Lube & Oil	Units #38 & #43 - oil changes	112.95	69.22
42949	7/13/2021	Golden Bell Products, Inc.	Lift station degreaser - 40 gallons		1,208.88
42950	7/13/2021	Great America Leasing Corp.	Kyocera copier leases - July 2021	1,031.95	991.47

42951	7/13/2021	Gsolutionz Professional Services	Voice communication - July 2021	185.62	145.83
42952	7/13/2021	Harper & Associates Eng., Inc.	E-1006 - Markridge Reservoir - One year warranty inspection	3,400.00	
42953	7/13/2021	Highroad Information Technology	Managed services, agreement renewals - July 2021	8,233.60	1,686.40
42954	7/13/2021	Wendy Holloway	Mileage reimbursement - Jan through June 2021	31.78	15.64
42955	7/13/2021	InfoSend, Inc.	Printing & postage for billing - June 2021	1,345.63	1,292.85
42956	7/13/2021	J.A. Salazar Construction	D-19-115 - 4360 Ocean View - install fire hydrant (reimbursed by dev.)	32,859.26	
42957	7/13/2021	J's Maintenance Service, Inc.	Office & Glenwood - janitorial service - June 2021	852.72	269.28
42958	7/13/2021	Amy Koenigsknecht	Refund check - 2700 Piedmont #103	171.04	
42959	7/13/2021	La Canada Irrigation District	Request for information - water use for sewer bills - 2021	232.52	114.52
42960	7/13/2021	Legend Pump & Well Service, Inc.	E-1028 - Well #12 rehab. - Progress Payment #1	39,600.75	
42961	7/13/2021	Lincoln Financial Group	Life & disability insurance - July 2021	872.52	581.68
42962	7/13/2021	Office Depot	Misc. supplies - June 2021	332.48	302.32
42963	7/13/2021	One Ring Networks, Inc.	Office & Glenwood Internet service - July 2021	1,012.50	337.50
42964	7/13/2021	O'Reilly Auto Parts	Misc. parts - June 2021	206.13	126.33
42965	7/13/2021	Paper Cuts, Inc.	Paper shredding - June 2021	2.65	2.35
42966	7/13/2021	Plumbers Depot, Inc.	Unit #53 - new hoses & supplies		459.83
42967	7/13/2021	Public Water Agencies Group	Emergency Preparedness Prgm - June 2021, & Qtrly PWAG assess	919.38	919.37
42968	7/13/2021	Raftelis Financial Consultants, Inc.	Professional services - Cost of Service Study - June 2021	4,375.00	
42969	7/13/2021	Ramco	Concrete & crushed misc. base - June 2021	693.69	
42970	7/13/2021	Red Wing Business Advantage	Mortenson & Boyce - safety boots	329.32	134.51
42971	7/13/2021	Jonathan Russo	Reimbursement - D-3 exam fee	100.00	
42972	7/13/2021	Serge's Automotive	Unit #38 - brakes	380.58	233.25
42973	7/13/2021	Spectrum Business	Glenwood, Mills & Office - Data communication - July 2021	3,615.44	1,270.28
42974	7/13/2021	Spectrum Business	Office & Glenwood - Internet Service - July 2021	672.44	236.26
42975	7/13/2021	St. Water Resource Control Brd.	Ortega - Grade D-2 annual renewal	130.00	
42976	7/13/2021	T.E. Roberts, Inc.	E-1021 - Encinal pipeline - Progress Payment #3	193,543.60	
42977	7/13/2021	Tri-Xecutex Corp.	Security upgrades to Main Office - June 2021	136.71	55.84
42978	7/13/2021	Underground Service	Underground notifications - June 2021	262.55	123.54
42979	7/13/2021	UniFirst Corporation	Uniform rentals - June 2021	311.58	93.06
42980	7/13/2021	Univar Solutions USA, Inc.	Sodium hypochloride - Mills - 500 gals., Glenwood - 700 gals.	3,559.69	
42981	7/13/2021	Univar Solutions USA, Inc.	Sodium hypochloride - Mills -280 gals., Glenwood - 410 gals.	2,046.20	
42982	7/13/2021	UPS	Plant - misc. shipping charges - June 2021	120.02	115.31
42983	7/13/2021	Vision Service Plan Co.	Group vision - July 2021	257.04	171.36
42984	7/13/2021	Vulcan Materials Company	Mixed bobtail - June 2021	1,825.00	
42985	7/13/2021	WCT Products Company	Equipment - Wireless leak locator	2,183.76	2,272.89
42986	7/13/2021	Your Membership.Com, Inc.	Director of Operations job posting	200.33	98.67
42987	7/15/2021	Cash-Petty Cash	Petty cash reimbursement	334.20	140.68
42988	7/22/2021	Maritess Allmon	Wellness reimbursement	96.29	32.10
42989	7/22/2021	Nemesciano Ochoa	Health reimbursement	322.74	215.16
42990	7/22/2021	Christina Olmedo	Wellness reimbursement	225.00	75.00

42991	7/26/2021	Grainger	Replaced ck. #39575, dated 2019 - E-995 - Misc. supplies	778.06	84.26
42992	7/26/2021	Arturo Montes	Health reimbursement	272.41	181.61
42993	7/26/2021	David Rawlings	Wellness reimbursement	53.37	17.79
42994	7/26/2021	Brook Yared	Health reimbursement	43.90	29.27
42995	7/27/2021	ACWA/JPIA	Workers Compensation Insurance - April 2021 through June 2021	6,564.54	4,376.36
42996	7/27/2021	All American Landscape Co.	Landscape maintenance - June 2021	255.50	94.50
42997	7/27/2021	American Water Works Assoc.	Annual membership renewal	1,653.75	551.25
42998	7/27/2021	Apex Manufacturing Solutions	E-993 - Rosemont Reservoir SCADA chlorine analyzer	15,765.00	
42999	7/27/2021	Aqua Solutions, Inc.	Well #2 - purification kit & cartridge	733.44	
43000	7/27/2021	ARB, Inc.	Refund for flooding meter - ARB Inc.	968.40	
43001	7/27/2021	AT&T	Voice Communication - June 2021	395.30	310.58
43002	7/27/2021	AT&T Mobility	Voice Communication - June 2021	1,324.28	395.56
43003	7/27/2021	Blanca Barnes	Refund check - 3749 Montrose	17.83	
43004	7/27/2021	Bruce's Automotive	Refund check - 2865 Foothill	7.39	
43005	7/27/2021	Bryan's Prompt Plumbing	Office - install cleanout & snake drain	269.50	80.50
43006	7/27/2021	Cannon	E-977 - Design Services - June 2021	10,868.25	
43007	7/27/2021	CCS Interactive, Inc.	Constant Connect - CVWD Email blast & Emergency Alert blast	157.50	52.50
43008	7/27/2021	City of Glendale Water & Power	Markridge - power purchased - June 2021	401.84	
43009	7/27/2021	Crescenta Valley Publishing, LLC	M-1004 - Local Hazard Mitigation Plan - Public comment display ad	350.00	
43010	7/27/2021	Crosno Construction, Inc.	E-1018 - Rosemont rehab. - Progress Payment #6, #7 Final Payment	280,782.01	
43011	7/27/2021	CV Strategies	Strategic Communication Services - June 2021	3,516.25	
43012	7/27/2021	Direct Connection	Door hangers		809.55
43013	7/27/2021	DLT Solutions, LLC	Annual license renewals for Autodesk	5,061.17	1,687.04
43014	7/27/2021	Dudek	E-1022 - Construction Maintenance & Inspection services - June 2021	18,820.00	
43015	7/27/2021	Emins Air Conditioning & Heating	Office & Plant - Maintenance services - June 2021	1,053.50	346.50
43016	7/27/2021	Extreme Safety, Inc.	Misc. supplies	37.85	15.45
43017	7/27/2021	Foothill Municipal Water	Water delivery - June 2021	332,343.23	
43018	7/27/2021	Scarlet Gharibian	Refund check - 2754 Brookhill	49.52	
43019	7/27/2021	George Gurniak	Refund check - 2757 Foothill	43.35	
43020	7/27/2021	Harrington Ind Plastics, LLC	Misc. parts - July 2021	144.83	
43021	7/27/2021	LA Dept Water and Power	Power purchased - July 2021	56.21	
43022	7/27/2021	Lagerlof, LLP	Legal Services - June 2021	8,101.60	1,778.40
43023	7/27/2021	Kim Lund	Refund check - 2405 Janet Lee	51.52	
43024	7/27/2021	Paveco Construction, Inc.	Asphalt repairs - May/June 2021	9,913.94	
43025	7/27/2021	PMC Engineering, LLC	Well 12 - New water level transducer	1,872.73	
43026	7/27/2021	Red Wing Business Advantage	Whittaker - safety boots	159.68	65.22
43027	7/27/2021	Kenny Roberts	Refund check - 3259 Montrose	20.46	
43028	7/27/2021	Shell	Gas purchased - July 2021	2,078.26	620.77
43029	7/27/2021	Spectrum Business	Office - Data Communication - June 2021	110.99	38.99
43030	7/27/2021	Springbrook Finance Holdings, Inc.	E-1020 - Professional services - AMI meter interface	1,014.00	

43031	7/27/2021	Steven Engineering, Inc.	Well #2 - Radio equipment relay	174.78	
43032	7/27/2021	Dion Svihovec	Refund check - 2534 Rockdell	39.00	
43033	7/27/2021	The Gas Company	Office - gas purchased - July 2021	17.78	5.61
43034	7/27/2021	Tri-Xecutex Corp.	Security Alarm System Maintenance - July 2021	451.43	184.37
43035	7/27/2021	Univar Solutions USA, Inc.	Sodium Hypochloride - Glenwood 800 gallons, Mills 560 gallons	4,033.76	
43036	7/27/2021	UPS	Plant - misc. shipping charges - July 2021	6.26	6.00
43037	7/27/2021	Wallace & Associates Consulting, Inc.	E-1008 & E-1019 Construction Inspection Services - June 2021	2,812.00	
43038	7/27/2021	Wells Fargo Card Services	Colby - working lunch, UWMP book, CVHS community outreach	1,261.12	205.25
43039	7/27/2021	Wells Fargo Card Services	Gould - working lunches, AWWA registr, Mills pump, Well #2 probe	1,904.65	416.32
43040	7/27/2021	Wells Fargo Card Services	Holloway - office supplies, permit fees, working lunch	1,598.76	341.79
43041	7/27/2021	Wells Fargo Card Services	Lee - Tri-State Seminar (6 employees), Well 2 calibr., teleconference	1,970.51	475.06
43042	7/27/2021	Wells Fargo Card Services	Ochoa - working lunches, misc. computer supplies	347.58	99.04
43043	7/27/2021	Westlake Ace Hardware	Misc. hardware - June/July 2021	501.30	197.59
43044	7/27/2021	Mary White	Refund check - 2640 Montrose	51.92	
43045	7/27/2021	Jacob Whittaker	Educational reimbursement	140.88	42.07
43046	7/27/2021	Western Water Works	E-1022 - materials, weld reducer & brass flanges and fittings (stock)	2,422.80	
43047	7/27/2021	Western Water Works	E-1022 - 8" Steel Tee and fittings	4,640.39	

Total Disbursements for July 2021	\$ 1,559,553.76	260,281.41
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1,819,835.17

Payroll Report

Directors	1,800.00
Office Regular Payroll	134,251.00
Office OT	447.00
Plant Regular Payroll	85,068.00
Plant OT & Standby	5,567.00
Employer Payroll Taxes	16,678.00
Payroll Service Charges	439.00
Total Payroll for July 2021	<u>244,250.00</u>

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 1
August 24, 2021

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – Director of Engineering
Subject: Award of Contract - Procurement and Installation of AMI Customer Engagement Portal, Project E-1035

ACTION ITEM:

Award of Contract for Procurement and Installation of AMI Customer Engagement Portal, Project E-1035 – Consideration and motion to authorize the General Manager to enter into an agreement with WaterSmart Software, Inc. for the procurement and installation of AMI Customer Engagement Portal at a cost of \$36,786 and establish a contingency amount of \$3,679 (10% of contract) to cover the cost of unforeseen or additional work.

BACKGROUND:

CVWD has been working on the implementation of the Advanced Metering Infrastructure (AMI) program over the past several years. The AMI program includes installation of new “Smart Meters” that read and transmit water usage data to the recently completed AMI Communications Network. The data is then sent to Sensus Analytics, which stores data and sends the information to CVWD’s billing system. Finally, the water usage data is sent to a customer portal on the web. The customer portal allows a customer to log onto their account, see hourly, daily, or monthly water usage, ability to set limits on water use, allows a customer to see if there is a leak at their property, provides suggestions to fix the leak, and provide a link to pay their bill. CVWD can also post information regarding water conservation, earthquake/wildfire preparation and send out group messaging to notify customers of a water main leak or other event. Staff can create a utility analytics dashboard to show water leaks, excessive water use, or no water use and inactive accounts with water use.

DISCUSSION:

Staff worked with Esource (formally UtiliWorks) to prepare a Request for Proposal (RFP) for a dynamic and well-designed Customer Engagement Portal (CEP) by which District customers can monitor and manage their water consumption behavior. The CEP proposal included the following:

- Configure and host a customer portal that is available online and through a mobile interface.
- Secure registration and login for each customer account.
- Customer profiles that can update to personalize the portal, notifications, and recommendations.
- Easily customizable communication preferences such as texting, emails, voice messaging or direct mailing.
- Personalized consumption displays in gallons per day, seasonal consumption trends, year-over-year usage, and ability to compare use to District goals.
- Interactive water-saving recommendation library with estimate of savings potential in GDP & dollars/year.
- Automatically detect leak events, notify the customer of suspected leaks, engage the customer to investigate and resolve the leak.
- Include a link from the District’s website and integrate it with the District’s payment system.
- Integration into Springbrook, including testing.
- Training of CVWD staff and support services.

CVWD’s design team comprising of Customer Service, Engineering and Operations staff met to review websites from a variety of companies throughout the USA that provide AMI Customer Engagement Portals. Staff narrowed the list down to three (3) companies, AquaHawk, Inc, Dropcountr, Inc. and Water Smart, Inc., which provides similar CEP services to water agencies and cities in Southern California.

The RFP was sent on June 28, 2021, and a pre-proposal meeting was held on July 20, 2021, that was attended by all three (3) companies. On August 3, 2021, CVWD received proposals for implementation of the CEP, including option items as shown in the attached bid summary table.

CVWD also requested that each company make a presentation to CVWD's design team, which included two (2) Board members about their CEP platform. The presentations were made on August 10, 11 & 12, 2021, and afterward, each member of the design team provided their choice for the CEP platform that would fit the District's needs. The overwhelming selection was WaterSmart, to provide the CEP platforms. Comments from the design team about WaterSmart were that their portal has an easy-to-use web page that a customer can customize, has several options to give the customer more flexibility in setting water use limits, a number of notification options such as text, email, phone call or direct mailer for a customer, and ease-of-use of the analytic water data.

RECOMMENDATION:

It is staff's recommendation to enter into an agreement with WaterSmart Software, Inc. for the procurement and installation of AMI Customer Engagement Portal at a cost of \$36,786 that includes set up costs, an optional "Welcome Letter" to all customers that announces the upcoming customer engagement portal and first year CEP hosting fee.

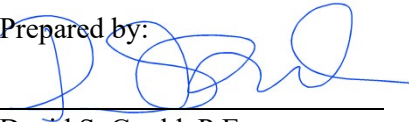
ENVIRONMENTAL REVIEW:

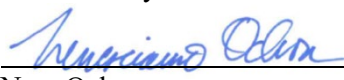
N/A

FUNDING AVAILABILITY:

There are sufficient funds available in the following account for the project:

FY 21/22 Water CIP – Technology - Advanced Metering Infrastructure (AMI)	Preliminary Cost Estimate
Budget - Installation of 3/4" & 1" water meters in Zone 1 including Smart Points & Connection to CEP	\$233,000
Budget - Installation of 21 Large 3" & 4" water meters (USBR Grant) ⁽¹⁾	\$200,000
Budget - Procurement and Installation of AMI Customer Engagement Platform	\$87,000
Total Budget	\$520,000
WaterSmart - AMI Customer Engagement Platform with Options ⁽²⁾	(\$36,786)
10% contingency - WaterSmart - AMI Customer Engagement Platform	(\$3,679)
Installation of 3/4" & 1" water meters in Zone 1 including Smart Points & Connection to CEP	(\$208,000)
Project Management - Esource - Project Coordination ⁽³⁾	(\$59,550)
Project Management - Highroad IT ⁽⁴⁾	(\$2,550)
USBR Grant - Installation of 21 Large 3" & 4" water meters	(\$200,000)
Total Cost Estimate	(\$510,565)
Amount Remaining in FY 21/22 Water CIP – Technology	\$9,435
Notes: 1. USBR Grant - Submitted May 2021; Anticipated Award October 2021; Grant Amount \$200,000 = \$70,000 USBR; CVWD - \$130,000; Grant requirement to include total project costs in CIP budget 2. Water Smart Options included - Welcome Letters to Customers (\$8,100) 3. Esource - Original Consulting Contract under E-1020 = \$104,600; Used \$45,050; Remaining \$59,550 transferred to E-1035 4. Highroad IT - Estimate 30 hours X \$85/hr. = \$2,550	

Prepared by: 
David S. Gould, P.E.
Director of Engineering

Submitted by: 
Nem Ochoa
General Manager

Attachments:

1. Bid Summary – AMI CEP
2. WaterSmart Proposal

AMI Customer Engagement Portal, Project E-1035

Bid Summary

Upfront CEP Software		Engineer Estimate		Water Smart		Comments	DropCounter		Comments	AquaHawk		Comments
	Quantity	Unit Cost	Total Cost	Unit Cost	Total Cost		Unit Cost	Total Cost		Unit Cost	Total Cost	
Customer Engagement Portal One-Time Set-Up Fee	1	\$25,000	\$25,000	\$12,000	\$12,000	Includes 90-Day Implementation, integrations with Springbrook billing system and Sensus AMI system, content configuration, and remote staff training.	\$7,500	\$7,500	Setup lead time includes CIS and EBPP integrations	\$10,773	\$10,773	Provided the export from the Springbrook CIS arrives in a timely manner.
Subtotal			\$25,000		\$12,000			\$7,500			\$10,773	
Upfront Professional Services												
Project Management	1	\$5,000	\$5,000	\$0	\$0	Included in One-Time Set-up Fee	\$0	\$0		\$0	\$0	Included in the Setup Fee
System Acceptance Testing	1	\$5,000	\$5,000	\$0	\$0	Included in One-Time Set-up Fee	\$0	\$0		\$0	\$0	Included in the Setup Fee
Training and Documentation (Software)	1	\$7,000	\$7,000	\$0	\$0	Included in One-Time Set-up Fee	\$0	\$0		\$0	\$0	Included in the Setup Fee
CEP/Bill Pay System integration	1	\$4,000	\$4,000	\$0	\$0	Standard integration with links CVWD's payment site. See 'Ongoing CEP Services' for Single Sign On	\$5,000	\$5,000		\$7,500	\$7,500	
CEP/CIS System Integration (Springbrook)	1	\$6,000	\$6,000	\$0	\$0	Standard batch-file integration with Springbrook CIS	\$5,000	\$5,000		\$0	\$0	Included in the Setup Fee
CEP/MDMS System Integration (Sensus Analytics)	1	\$6,675	\$6,675	\$0	\$0	API integration with CVWD's MDMS (Sensus Analytics)	\$0	\$0		\$0	\$0	Included in the Setup Fee
Subtotal			\$33,675		\$0			\$10,000			\$7,500	
Other Upfront CEP Costs												
OPTIONAL On-site Training Travel & Expenses	1			\$5,000	\$0	On-site Training Travel & Expenses						
OPTIONAL Welcome Letters	1			\$8,100	\$8,100	Delivered via email and mail. Email includes personalization and delivery. Mail includes						
OPTIONAL Print Leak Alerts	1			\$1,500	\$0	Sent to non-digital customers upon leak detection automatically. Includes personalization, printing,						
OPTIONAL Premium Payment Integration- Single Sign On	1			\$9,000	\$0	Standard integration with links CVWD's payment site. See 'Ongoing CEP Services' for Single Sign On						
OPTIONAL Premium CIS System Integration (Springbrook)	1			\$6,000	\$0	Premium API integration with CVWD's CIS system (Springbrook) (3% annual escalation fee)						
OPTIONAL Non-Revenue Water Analysis	1									\$1,115	\$1,115	This is an optional feature
OPTIONAL Services	1									\$4,740	\$4,740	Note annual escalation rates over 10 year term
Subtotal			\$0		\$8,100			\$0			\$5,855	
Ongoing CEP Services												
Annual CEP Hosting Fee	8,100	\$3.25	\$26,325	\$2.06	\$16,686	Annual subscription fee for the platform (3% annual escalation fee)	\$1.80	\$14,580	Estimated < 5% per year	\$1.76	\$14,256	Note annual escalation rates over 10 year term - 3%
Year 1 Subtotal			\$26,325		\$16,686			\$14,580			\$14,256	
Total CEP Costs without Optional Tasks			\$85,000		\$28,686			\$32,080			\$32,529	
Total CEP Costs with Optional Tasks					\$36,786			\$32,080			\$38,384	

A VertexOne
Solution Overview



Crescenta Valley Water District, CA RFP

Your VertexOne Representative

Alex Brown, Sales Development Representative

Mobile: (650) 483-6412

Email: alexander.brown@vertexone.net

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5.3 Vendor Information Form

Vendor shall submit to District the following information as part of the Proposal:

PROPOSAL TO CRESCENTA VALLEY WATER DISTRICT FOR THE IMPLEMENTATION OF A Customer Engagement Portal (CEP)

Name of Firm	WaterSmart Software Inc.
License Number and Class	EIN 263006422, C Corporation
Business Address	1321 Upland Dr. Suite 8381, Houston TX, 77043
Phone Number	650-483-6412

The site of the work to be constructed and referred to herein is in the County of Los Angeles, California.

The work is to be in accordance with the specifications and contract documents and as described in the Request for Quotation entitled: Customer Engagement Portal (CEP) Implementation.

1. The name and location of the place of business of each subcontractor performing work, labor or render construction services and each subcontractor licensed by the State of California specially fabricating and installing improvements according to detailed drawings or the plans and specifications, in an amount in excess of one-half of one percent of the Vendor's total Proposal/bid.

N/A. VertexOne is not proposing to use sub-contractor for the CVWD project.

2. The portion of the work to be done by each subcontractor.

N/A. VertexOne is not proposing a subcontractor.

3. California Vendor's license number of its listed subcontractors under the requirements for subcontractor listing and shall be solely responsible to correct any errors in the listing of the California Vendor's license number. Vendor shall submit corrected California Vendor's license number information within 24 hours of request by the District or upon discovery by Vendor by submitting the correction to the District representative provided within the Request for Proposal. Vendor's failure to submit a corrected California Vendor's license number in compliance with the process set forth above will cause the Quote/bid to be nonresponsive. The Vendor shall list only one subcontractor for each portion of the work identified in the Request for Proposal.

N/A. VertexOne is not proposing to use sub-contractor for the CVWD project.

5.4 Executive Summary

Provide the following information in the executive summary: • A summary of your Proposal, confirming you are submitting for a CEP solution to include integration services. • Which subcontractors, if any, are part of the proposed project team. • An affirmation of no conflict of interest/non-collusion. • An original authorized signature.

August 3, 2021
 Crescenta Valley Water District, CA
 2700 Foothill Blvd.
 La Crescenta, CA 91214

Dear Crescenta Valley Evaluation Team,

Thank you for the opportunity to submit this proposal in response to Crescenta Valley Water District's Customer Engagement Portal (CEP) Request for Proposal- Project (RFP# E- 1035).

VertexOne recognizes the Crescenta Valley Water District's commitment to delivering excellent customer service and to exceeding your customers' expectations. We applaud your decision to invest in Advanced Metering Infrastructure (AMI) as well as your vision to maximize its value. VertexOne is confident that our team can help Crescenta Valley accomplish your goals of leveraging hourly water use data, improving customer satisfaction, and increasing online customer self-service with our:

1. **Most-Widely Adopted Platform in the Marketplace:** More water utilities use **VertexOne WaterSmart™** than any other offering in the marketplace. We currently serve 175+ water utilities and counting. VertexOne currently holds partnerships with 47 California utilities, including Los Angeles Department of Water and Power, City of Pasadena, Glendale Water and Power, City of Arcadia, City of Lakewood, City of Buena Park, City of Long Beach and utilities like the City of Austin, TX who are working with us to provide superior AMI functionality during their own meter transition. Most of our California Utility Partners have deployed AMI and chose **VertexOne WaterSmart™** to transform their hourly data into actionable insights for both utility staff and customers. VertexOne has earned the trust of our Utility Partners by consistently delivering in terms of exceptional customer support, measurable results, and product innovation & evolution;
2. **Unmatched AMI Experience and Results:** VertexOne is the most experienced 3rd party AMI software provider in the marketplace. Today, we are ingesting and analyzing AMI data for over 80 different Utility Partners across the country. We've successfully integrated with over 25 Sensus AMI utilities, 7 Springbrook CIS utilities, and can leverage data from Crescenta Valley's non-AMI (AMR) meters to provide value for customers and staff in advance of full AMI deployment. More importantly, **VertexOne WaterSmart™** is proven to deliver measurable results. For example, we've helped Sensus AMI user South Tahoe PUD in California automate their leak detection and alerting process, which has saved staff 10-15 hours per week and reduced the cost of their leak abatement program by 30%. We've also helped another Sensus AMI user, Glenview IL, automate their alerting process and reach non-digital customers with our unique Print Leak Alerts. In less than 3 months, 20% of Glenview's print recipients converted to digital alerts and staff saved 10 hours each week. Finally, across all of our Utility Partners, 59% of end-customers are self-resolving their leaks with WaterSmart's only Closed-Loop Leak Resolution System; and

- 3. 100% Launch Rate:** The **VertexOne WaterSmart™** Solution has zero failed implementations and consistently delivers on its commitments. This is due to our unique experience with each of the top AMI system providers, more than 25 different billing systems, and half a dozen different payment vendors. In addition to our deep experience integrating with a wide variety of systems, our low-risk VertexOne WaterSmart™ Solution is a result of our product leadership in delivering customer engagement solutions built specifically for water utilities; our ability to localize and personalize communications for better results; and our ability to handle a wide range of complexities, such as up to 18 different meter classes, AMI and non-AMI meter types, a variety of mature payment integrations, and irrigation detection through our patent-pending algorithm.

Our unmatched Customer Success and Engineering teams look forward to working with the Crescenta Valley Water District to deploy the industry's leading customer engagement technology.

Sincerely,

A handwritten signature in black ink, appearing to read "AB", with a light blue circular stamp or watermark behind it.

Alex Brown
Account Executive- Western US
alexander.brown@vertexone.net
650-483-6412

5.5 Experience/References

i. Company Information

Provide the following information in your response:

a. A brief company history, including ownership, size, and number of national offices. Recent acquisitions or changes in ownership must be clearly disclosed.

WaterSmart, founded in 2009 as the first company in the U.S. to help water utilities use data analytics and behavioral science to better serve and engage their customers and has since been commercially proven over the last decade. The **VertexOne WaterSmart™** platform is the most widely deployed solution in the industry, serving more than 175 water utilities in 39 states, 2 countries, and nearly 4.5 million customers. WaterSmart's engagement solutions have been proven to double customer satisfaction and triple levels of engagement while reducing operational costs and saving staff time.

VertexOne WaterSmart™ develops all of its products in-house and in the United States. Current utility partners range in size from small utilities (under 3,000 accounts) to medium and large utilities (over 500,000 accounts). **VertexOne WaterSmart™** continues to innovate and views each utility engagement as a partnership with the opportunity to learn and expand its services to better serve all utility partners. As a Software-as-a-Service company, we are constantly expanding the capabilities of our products and services and passing on the benefits of these investments to our utility partners.

Office Locations

VertexOne has office locations in Dallas, TX (HQ), Houston, TX, Bend, OR, Toronto, ON, CA, Scottsbluff, NE, San Francisco, CA and Gurgaon, India.

Representative Clients



Number of years in the business

WaterSmart was founded in 2009 and has been doing business for 10 years. VertexOne has been in business for over 30 years.

Details about ownership

On May 5th, 2020, WaterSmart Software was acquired by VertexOne. VertexOne is owned by DFW Capital Partners, a leading private equity investment firm for middle-market companies.

VertexOne Group was acquired by **DFW Capital Partners** in **July 2019**. Details on this acquisition have been provided in ***Exhibit A – Acquisition Press Release***.

VertexOne acquired WaterSmart in May 2020. You can read more details on this acquisition at <https://www.vertexone.net/resources-events/news/vertexone-acquires-watersmart>.

b. Overall company experience in AMI, network operations and systems integration.

VertexOne WaterSmart™ is built specifically for water AMI utilities with unmatched capabilities such as Closed-Loop Leak Resolution, Bill Explainer, Bill Forecasting, Irrigation Detection, Forms, Group Messenger, expertise with rate tiers and water budgets, and personalized water efficiency recommendations. We are currently ingesting and analyzing AMI data for over 80 different Utility Partners nationwide. We have successfully integrated with all the major AMI providers, over 25 different CIS vendors, and delivered Single Sign On (SSO) integration with a half-dozen online payment providers. Our rich AMI capabilities are proven to save staff time, drive Portal adoption, drive customer self-resolution, and much more.

VertexOne WaterSmart™ offers a whole suite of integrations as a part of our integration services. The most common types of integrations are payment system integrations, billing system integrations, and AMI system integrations. As a part of this service we are capable of integrating with any vendor willing to participate with **VertexOne WaterSmart™** and over half of our 179 customers utilize AMI and non-AMI meter reads as well as payment integrations. **VertexOne WaterSmart™** utilizes dozens of vendor API's to deliver premium information and services at every level of our product stack. Some examples include: Twilio, Intercom, and Amazon Webservices.

c. Confirmation that your company and personnel are legally allowed to work in the state of California.

Confirmed. VertexOne Software, LLC is legally allowed to work in the state of California. VertexOne currently provides solutions for nearly 50 California utility customers.

d. State whether there are pending or prior legal disputes or lawsuits with any existing or previous clients. If so, state all such disputes, including dates, as well as any facts and outcomes regarding these disputes.

There is no pending legal action against WaterSmart Software, Inc. VertexOne does not have any litigation, mediation, arbitration or alternative dispute resolution cases involving VertexOne, subsidiaries or parent

company, related to the utilities industry, within the last ten years which are in anyway relevant to our proposed solution.

e. State the standard method or methods of resolving disputes, should they arise.

WaterSmart's Customer Success team will work with CVWD to resolve any disputes, should they arise.

ii. Subcontractor Information

If Quotes include the use of subcontractors, the Vendor must:

a. Identify the subcontractors and the specific requirements of this RFP for which each proposed subcontractor will perform services.

N/A. VertexOne is not proposing to use sub-contractor for the CVWD project.

b. Provide the name of the firm, the name of a contact person, mailing address, phone, and fax number of the Subcontractor's principal place of business.

N/A. VertexOne is not proposing to use sub-contractor for the CVWD project.

c. Describe the relationships amongst the different entities proposing jointly, how long you have worked together, what projects were successfully implemented jointly, projects that were not successful, and whether any of the companies submitting jointly have vested interest in one another.

N/A. VertexOne is not proposing to use sub-contractor for the CVWD project.

iii. References

CVWD requires a minimum of three (3) references from similar projects performed within the last five (5) years.

CVWD prefers references for water utilities of comparable size and terrain to CVWD (approximately 10,000 service connections in a challenging terrain).

These references shall be provided with the following information:

Reference #1

Utility Name	Fallbrook Public Utility District
Address	990 East Mission Road

Location (City / State / Zip)	Fallbrook, CA 92088
Contact Name	Noelle Denke, Public Affairs & Conservation
Telephone	760-728-1127
E-mail Address	noelle@fpud.com
Project Name	WaterSmart Services Agreement
Project Start Date	February 26, 2016
Project End Date	N/A
Project Scope	Fallbrook Public Utility District (FPUD) has been with WaterSmart Software since February of 2016 serving a mixed-meter environment with a Customer Water-Use Portal available to over 9,000 customers and an Analytics Dashboard utilizing data from end-points across their challenging, hilly terrain (elevations vary between 500 and 1500 feet), as well as their Springbrook CIS system. FPUD has incorporated Single Sign On (SSO) with their bill vendor, InfoSend, thus further enhancing customer experiences and increasing registrations by over 230% in less than a year. FPUD utilizes Badger meters with an Itron AML network.
Option for a Site Visit? (Yes / No)	Yes

Reference #2

Utility Name	Town of Hillsborough
Address	1600 Floribund Avenue
Location (City / State / Zip)	Hillsborough, CA 94010

Contact Name	Ed Cooney, Drought Specialist
Telephone	650-375-7505
E-mail Address	ecooney@hillsborough.net
Project Name	WaterSmart Services Agreement
Project Start Date	January 17, 2017
Project End Date	N/A
Project Scope	The Town of Hillsborough launched its WaterSmart program in January 2017. The goal of the program is to leverage their Sensus AMI network and Single Sign On (SSO) with Official Payments Corporation for their roughly 4,200 accounts to increase self-service, decrease the number of calls to the utility and to provide its customers with access to hourly data and related functionalities such as leak alerting, high bill notification and more. Their considerably winding, hilly topography, and impossibility of a grid layout make Hillsborough notoriously challenging to navigate, however, use of the outbound engagement tools within the WaterSmart Platform has resulted in over 80% of eligible accounts registering for the portal. Tyler Technologies provides Hillsborough's CIS system.
Option for a Site Visit? (Yes / No)	Yes

Reference #3

Utility Name	Hendersonville Utility District
Address	125 Indian Lake Road

Location (City / State / Zip)	Hendersonville, TN 37075
Contact Name	Marty Fellers, IT Manager
Telephone	615-824-3717
E-mail Address	mfellers@hendutil.net
Project Name	Services Agreement: WaterSmart Software
Project Start Date	December 1, 2017
Project End Date	N/A
Project Scope	Hendersonville Utilities District has been a WaterSmart customer since 2017. HUD wanted for their customers to get the most out of their new Sensus AMI meters as well as a Single Sign On (SSO) solution with their online payment vendor, Invoice Cloud. 10 months after rollout, 40% of their close to 16,500 customers were registered for WaterSmart and inbound call volumes to their Customer Service Center have declined significantly, leading to fewer work orders and improvements for staff efficiency.
Option for a Site Visit? (Yes / No)	Yes

Reference #4: Although this is not within the last 5 years, we feel this project is similarly situated with CVWD.

Utility Name	The City of Morgan Hill
Address	17575 Peak Avenue
Location (City / State / Zip)	Morgan Hill, CA 95037-4128

Contact Name	Tony Eulo, Program Administrator
Telephone	408-310-4179
E-mail Address	tony.eulo@morganhill.ca.gov
Project Name	Consultant Agreement: WaterSmart Software
Project Start Date	June 22, 2015
Project End Date	N/A
Project Scope	WaterSmart has been providing a Customer Portal to the City of Morgan Hill's approximately 15,000 Sensus AMI accounts since 2015. Their Single Sign On (SSO) payment solution, using InfoSend, enables customers to pay bills easily while contributing to high customer registration. In the past year alone, WaterSmart has sent 18,656 alerts about possible leaks, which has helped customers across their rugged topography to identify and resolve leaks. Morgan Hill staff members have successfully delivered more than 18,000 Group Messages with open rates 41% higher than industry average. Additionally, the program has seen high satisfaction rates among Morgan Hill customers, with more than 80% of participants indicating that they think the program is valuable (2017 Customer Satisfaction/Water-Use Survey).
Option for a Site Visit? (Yes / No)	Yes

In addition, provide the following:

a. Total number of systems supplied in the last 12 months

VertexOne has completed 37 **VertexOne WaterSmart™** Launches in the past 12 months.

b. Total number of systems implemented to date

There have been 229 total successful **VertexOne WaterSmart™** implementations to date (zero failures).

c. Total number of systems in operations for 3 years or longer

There have been 54 **VertexOne WaterSmart™** programs in operation for 3+ years.

Sub-contractors shall also provide a comprehensive list of references for services being proposed:

N/A. VertexOne is not proposing to use sub-contractor for the CVWD project.

5.6 Product Maturity and Future Roadmap

Provide information on products and future roadmaps for your Proposal.

Customer Engagement Portal (CEP) (Hosted)

a. Provide a narrative description of the Customer Engagement Portal solution.

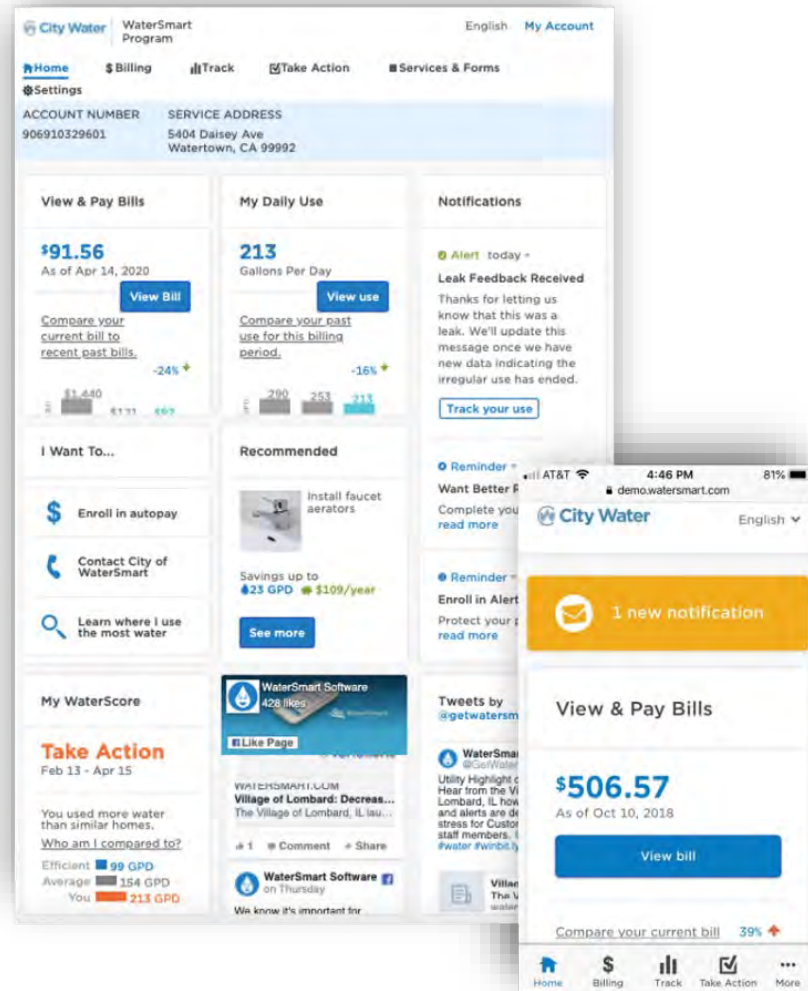
VertexOne WaterSmart™ is a powerful customer engagement and data analytics platform. The program is comprised of the following elements, which are explained in more detail below. Content and design of all materials are subject to change over time, as **VertexOne WaterSmart™** incorporates new features:

- **Customer Portal**: Web-based application with current and historical water use insights, multi-channel digital alerts, leak & high-bill resolution for all utility account owners; and (optionally) billing and payments for account owners
- **Utility Analytics Dashboard**: Web-based application with analytics, customer support tools outbound notification engine, and Program performance data for Utility staff
- **Customer Welcome Letters and Print Leak Alerts**: Customized communications mailed or emailed to each participant (if selected) and
- **Single Sign On (SSO) Based Integration**: Integration with third-party payment sites or city website using the SAML 2.0 or OAUTH2 protocol, allowing account owners to access the two portals with a single set of login credentials.

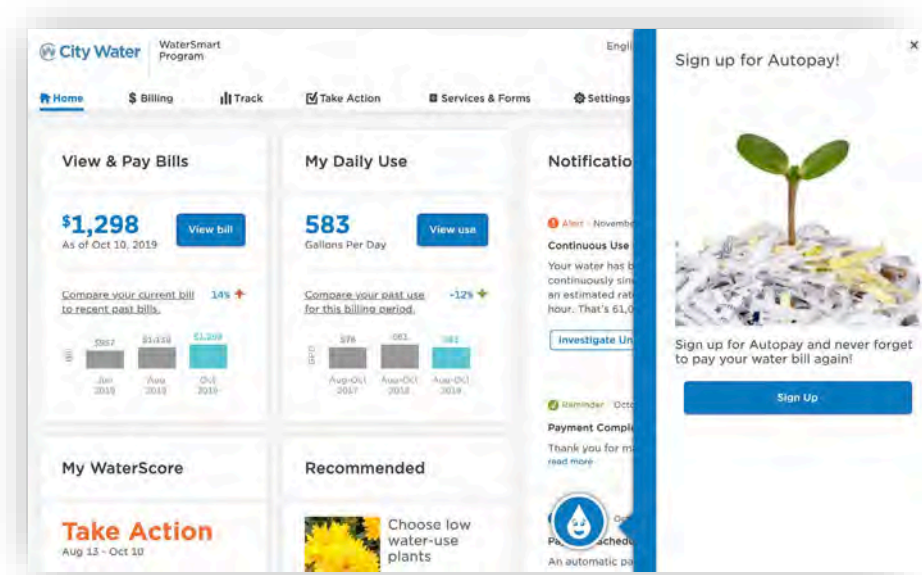
Customer Self-Service Portal

The WaterSmart Portal is available to all customer accounts through a mobile and web application interface. CVWD utility customers can view the Portal in both English and Spanish to track hourly and daily water usage, self-identify and resolve leaks, compare their use to similar customers, view their bill forecast, choose from a robust library of water-saving actions, and set a wide variety of customizable alerts. By helping your customers resolve the most common issues themselves, CVWD utility staff can lower call volumes, reduce costs, and increase customer satisfaction.

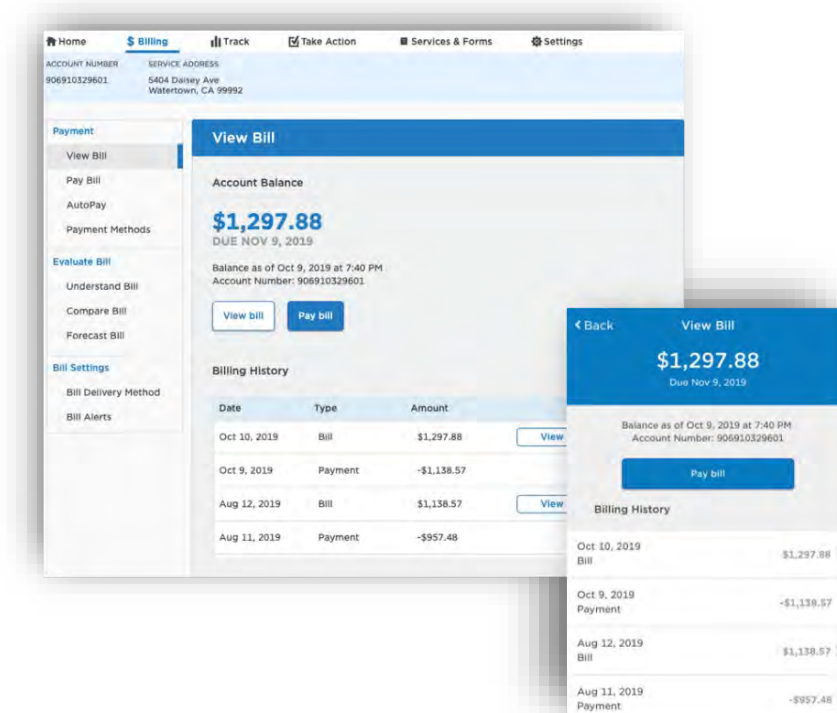
Below are some examples of the **VertexOne WaterSmart™** portal.



Customer Portal Home Page on Web and Mobile



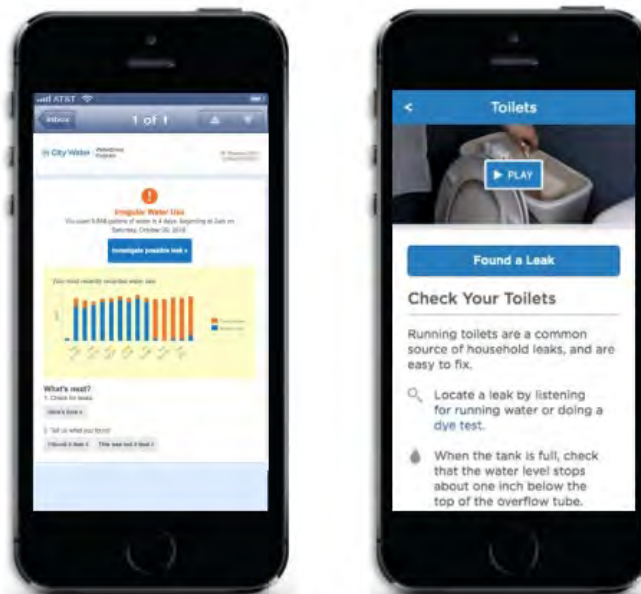
'Splash' Notifications in the Portal



Bill Presentment in the Customer Portal on web and mobile

Closed-Loop Leak Resolution:

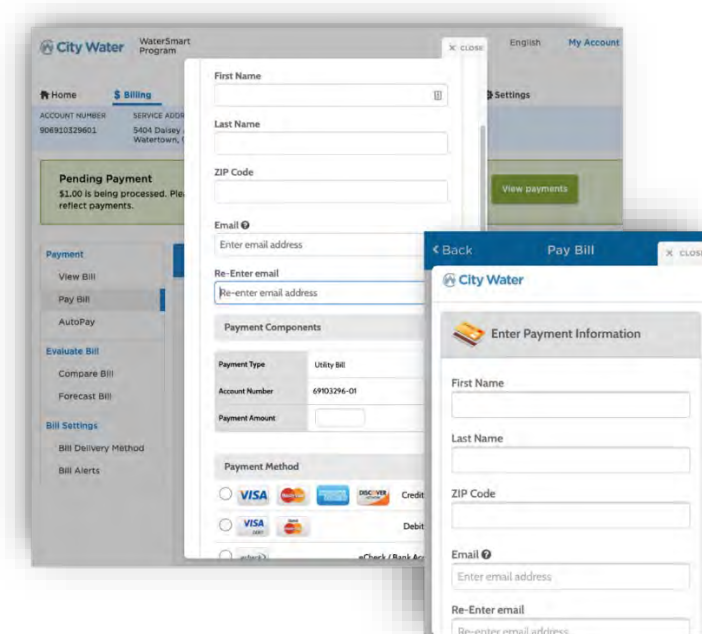
VertexOne WaterSmart™ provides the industry's first and only Closed-Loop Leak Resolution System, which is proven to drive customer self-resolution and save Utility staff time and costs. **VertexOne WaterSmart™** provides configurable leak settings for all meter classes, and upon leak detection, automatically delivers leak alerts to your customers via email, SMS text message, automated voice call, and print. WaterSmart's automated system goes further to equip CVWD customers with a leak resolution wizard, complete with step-by-step instructions and how-to videos.



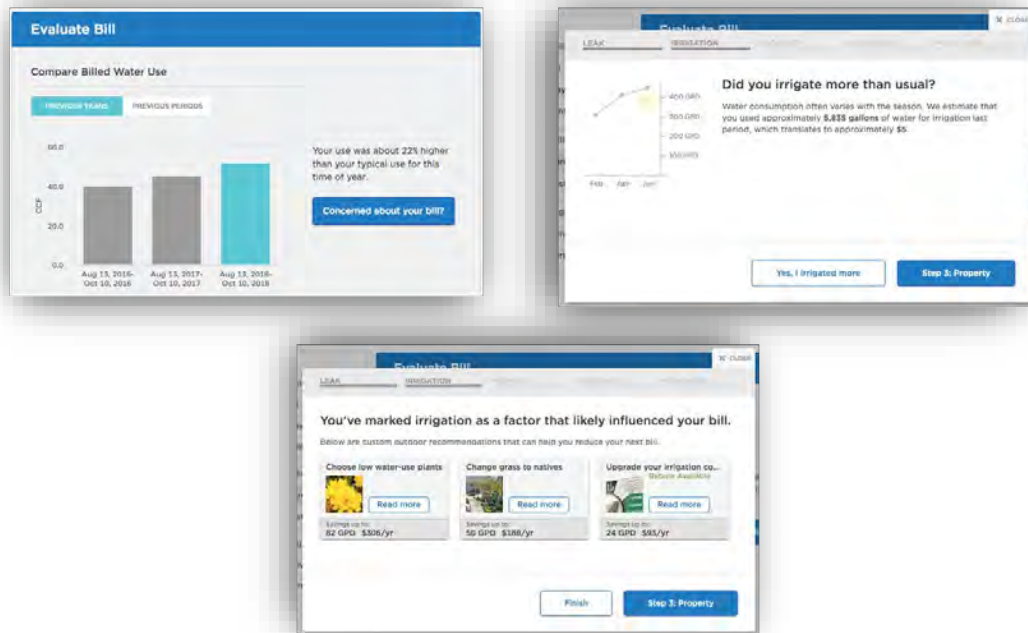
Closed Loop Leak Resolution System

High Bill Resolution:

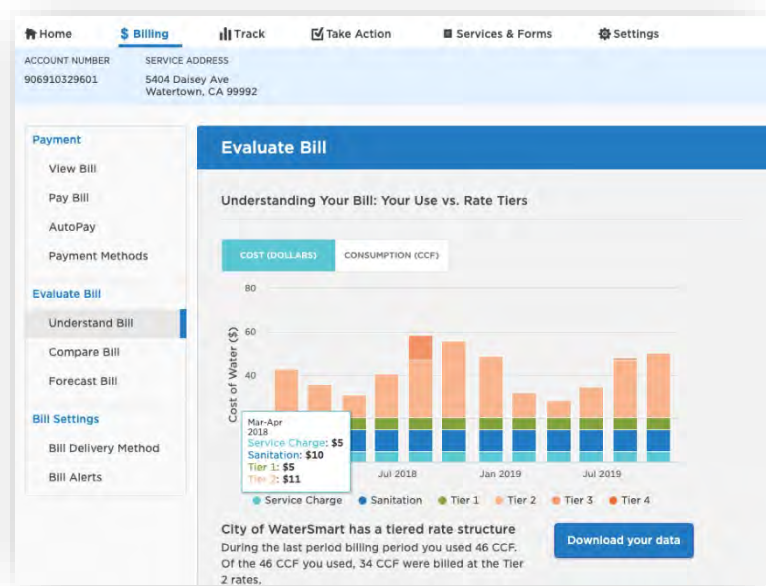
VertexOne WaterSmart™ further empowers CVWD's utility customers to self-serve when it comes to understanding and controlling their water bill. Through our highly personalized Bill Explainer system, CVWD customers can understand the likely drivers of their bill such as a leak, over-irrigation, a longer billing cycle, a rate increase, etc. We also equip customers with actionable insights such as their Bill Forecast and Bill Forecast Notifications, where they can set a dollar -based threshold alert and be notified when they're on track to exceed that amount before the end of the billing period



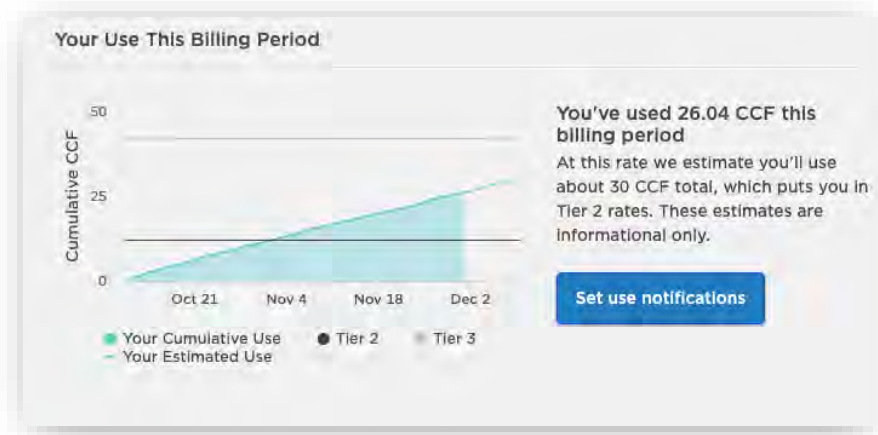
OPTIONAL Embedded Payments in the Customer Portal on Web and Mobile



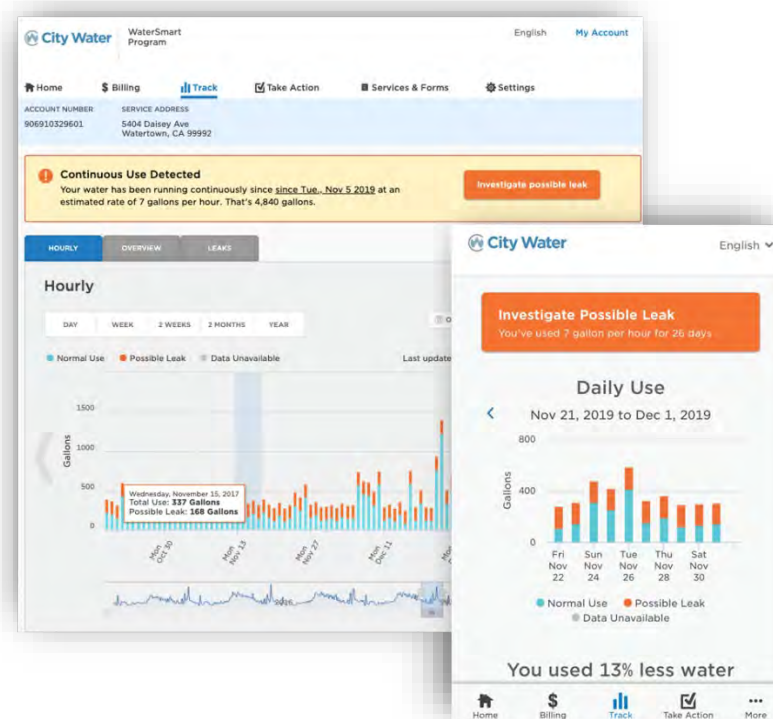
Previous Years and Previous Periods + Bill Explainer Self-Help System in the Customer Portal



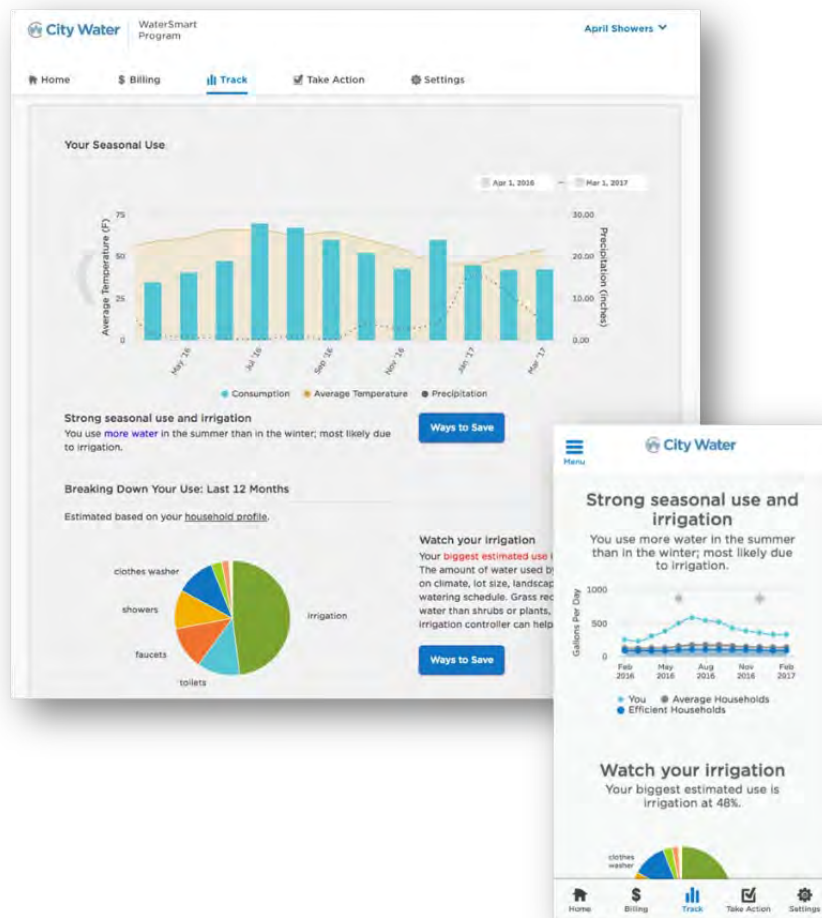
Fixed and Variable Charges Presented in The Portal



Bill Projection for Current Billing Period with Rate Tiers Identified



Customer Portal "Track" Page on Web and Mobile



Customer Portal “Track” Page on Web and Mobile

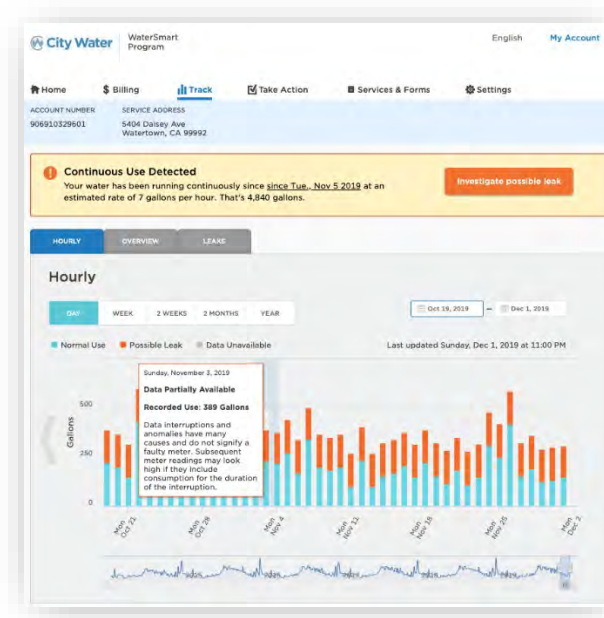
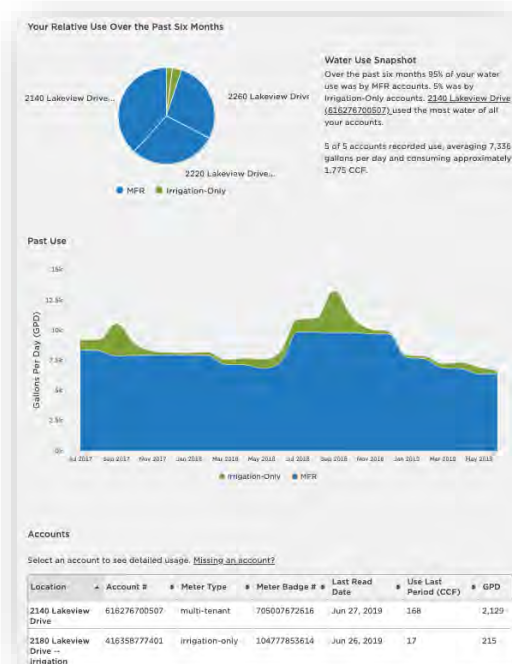
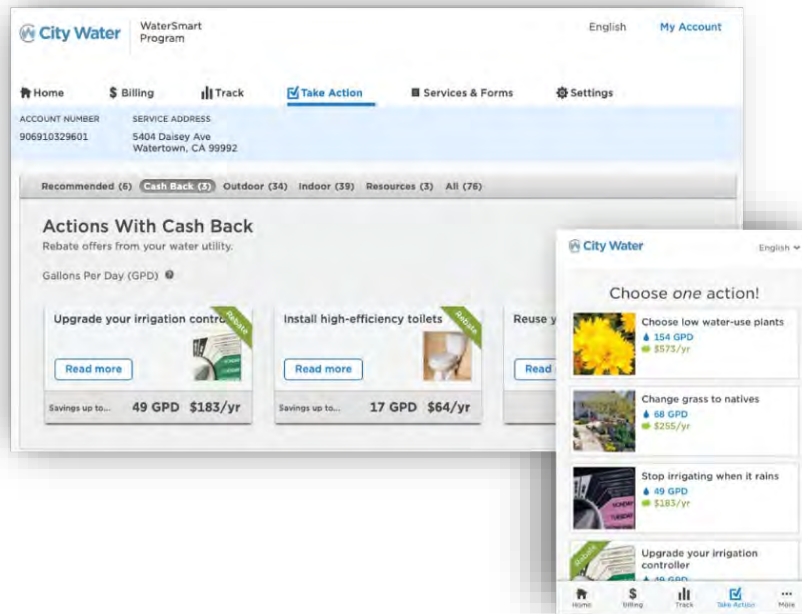


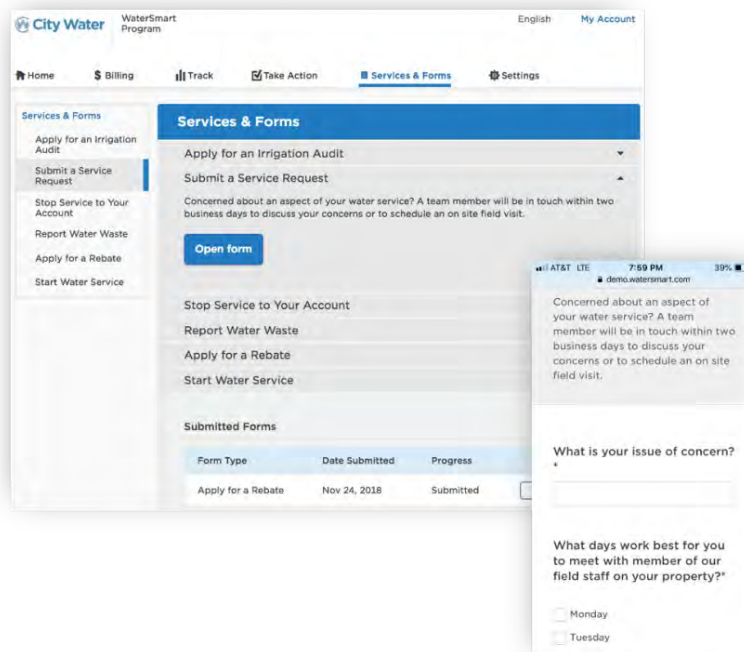
Illustration of Missing AMI Data in The Customer Portal



Rolled-up View of Consumption in the Portal upon Linking Multiple Accounts



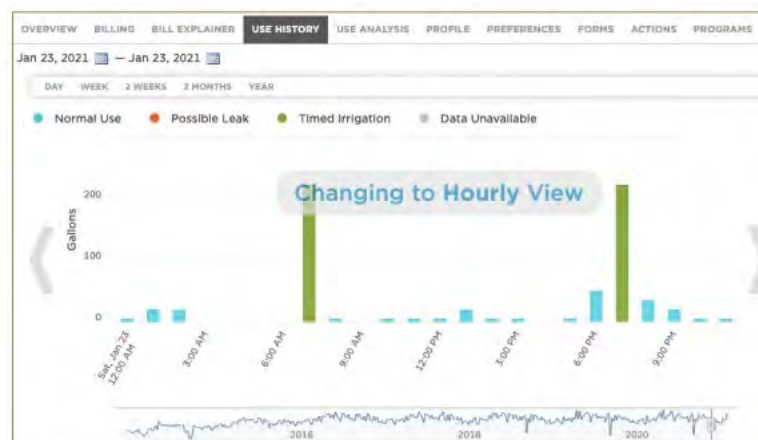
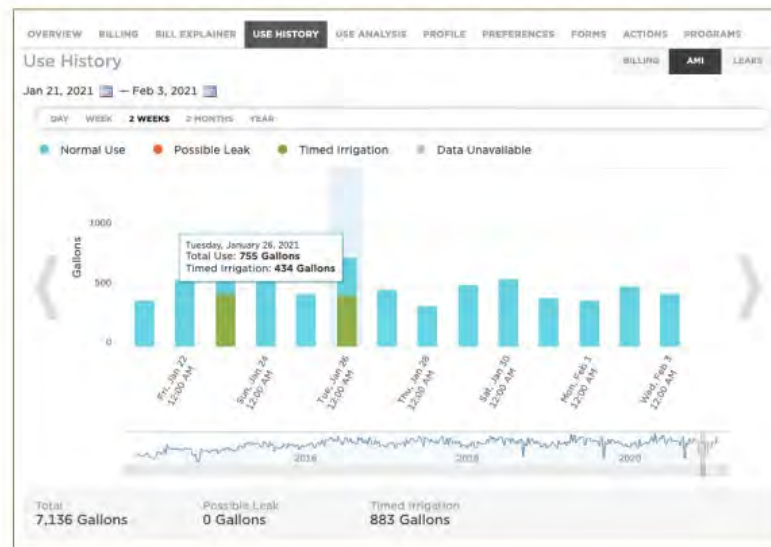
“Take Action” Personalized Recommendations in The Customer Portal on Web and Mobile



Customer Portal "Services & Forms" Page on Web and Mobile

Utility Analytics Dashboard:

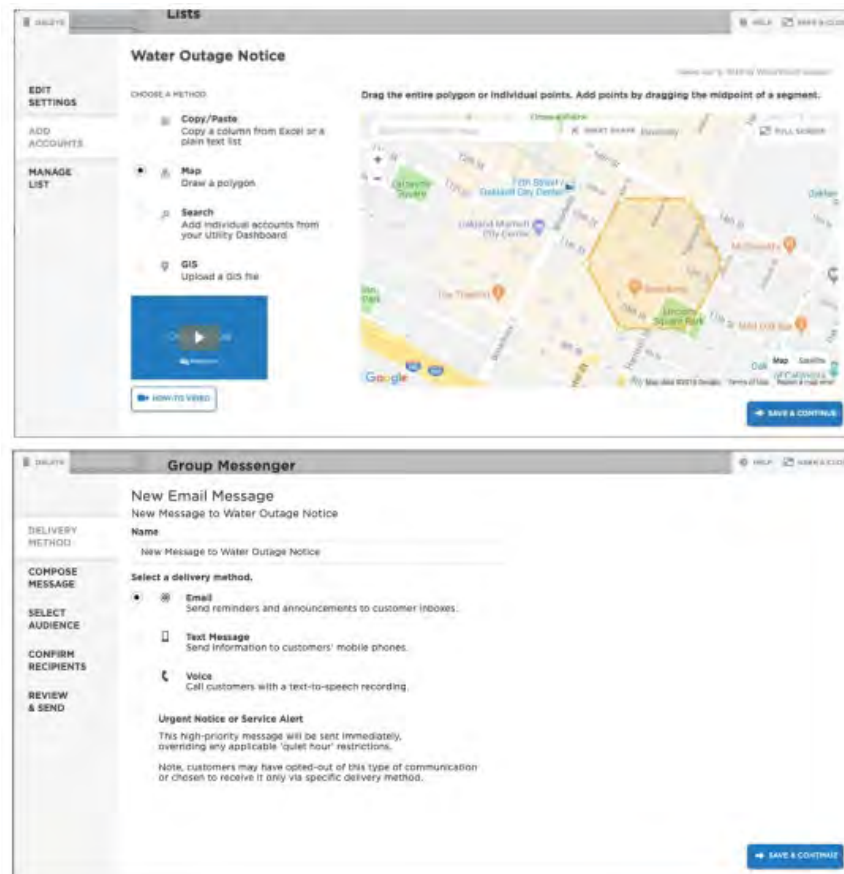
In addition to empowering your customers, the **VertexOne WaterSmart™** Platform equips unlimited CVWD utility staff users with deep analytics in aggregate and at the account level, automated leak management, 50+ pre-configured reports, unlimited outbound notifications, targeted messaging, and much more. Please see account-level Irrigation Detection in the two screenshots below:



Account Level Irrigation in the Utility Dashboard

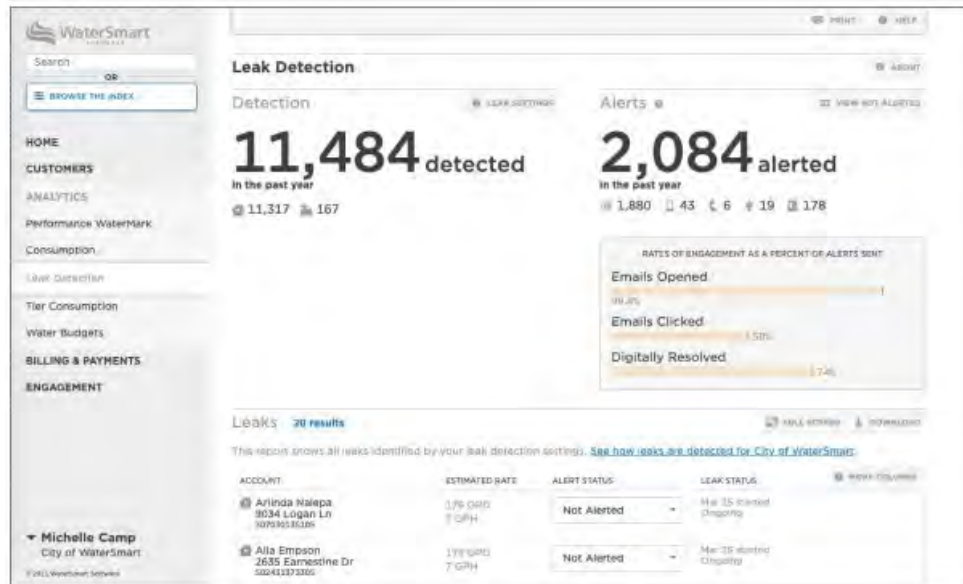
Group Messenger:

CVWD utility staff can compose, send, and track unlimited outbound notifications using WaterSmart's Group Messenger module. This module allows you to create a list of customers to notify by drawing a polygon on a map, uploading a GIS shapefile, or other method, and then send a personalized message via email, SMS text message, or automated voice call. Our Utility Partners commonly use this module to notify affected customers of water service interruptions, upcoming AMI meter installations, boil water notices, and more.



List Builder and Group Messenger Modules

Below are additional select screenshots of the VertexOne WaterSmart™ Solution.



Automated Leak Alerting and Detection Module



Detailed Customer Engagement Analytics

WaterSmart

Consumption History by Day

MESSAGE DOWNLOAD CLOSE

Irrigators (Last Week) 1,410 results

TABLE MAP BILLED CONSUMPTION DAILY CONSUMPTION

Likely irrigators are those with a consistent pattern of high water use, which is most likely timed irrigation. A green check Ind. More

SEARCH ACCOUNT: [x] IRRIGATION IN LAST 7 DAYS: 1 or more COMPLAINCE: All irrigators IRRIGATED WITHIN 48 HOURS OF RAIN: All UPDATE

WATER CLASS: SFR [x]

ACCOUNT	CONTACT	IRRIGATION DAYS BY WEEKDAY	IRRIGATION DAYS IN LAST 7 DAYS	IRRIGATED WITHIN 48 HOURS OF RAIN	GPD	WATER REPORT RECIPIENT
Aidan Skerl 4796 Armandina Blvd 603331193366	jerry@gmail.net (625) 001-6948	Su M Tu W Th Fr Sa	6	No	1,242	Y
Abe Seefried 3259 Stephine St 609196552805	demo-inbox@user1282	Su M Tu W Th Fr Sa	6	No	885	Y
Alpha Serra 2236 Marilee St 404387090802	test@telv.com	Su M Tu W Th Fr Sa	6	No	893	Y

AMI Irrigators Report with “Irrigated Within 48 Hours of Rain” Capacity

City Water WaterSmart Program
323 Main St
Anytown, USA

SERVICE ADDRESS: 156 Washington St
ACCOUNT NUMBER: 23875124-01

VIEW YOUR WATER USE
citywater.watersmart.com

405.555.5555 info@citywater.com

Blair Jones
456 Washington St.
Anytown, USA

RECIPIENT ADDRESS
WILL AUTOMATICALLY
BE PRINTED
IN THIS POSITION

Irregular Water Use Detected

On March 5, our automated system detected a use of 830 gallons in 5 hours, beginning on March 5, 2017.

Normal use Possible leak

LEAKS 101

The most common causes of irregular water use are easy to find and fix. For more detailed tips, log on to watersmart.com/LeakCheck.

Running Toilets
Listen for running water or do a dye test. Check the flapper and the float valve.

Irrigation
Check your controller settings. Inspect your system for breaks or excessively damp areas.

Pipes & Fixtures
Look for wet spots near your faucets, showerheads, and water heater, and behind appliances.

A free service provided by your water utility and powered by Watersmart, Inc. and AMI.

WELCOME TO THE WATERSMART PROGRAM

Dear Blair,

City of Anytown is excited to introduce you to the WaterSmart Program. This free service is part of our commitment to provide you with the best tools to manage your water use and your bill. I encourage you to get started today by logging on to the WaterSmart Portal.

Sincerely,

Pat Smith
Mayor of Anytown

VIEW YOUR HOURLY USE

citywater.watersmart.com

Account: 23875124-01
Zip Code: 98765

Your use for Thursday, April 5

WHAT YOU'LL GET

The WaterSmart Portal will help you track your water use at macro and micro levels.

- Near real-time data** View your use hour-by-hour. Be alerted to leaks.
- Sign up for alerts** Take control of your water use and avoid surprises.
- Ways to save** Get personalized, step-by-step actions.

Sample Print Leak Alerts and Print Welcome Letters (Optional)

Leak Alerts

High Use Notifications

Bill Forecast Notifications

Unplanned Use Notifications

Water Reports

Utility Connect Messages

Urgent Notices & Service Alerts

☒ **Leak Alerts**
 You will be notified if we think you have a leak. If your property uses water continuously, tell us how much.

☒ **High Use Notifications**
 You will be notified when your daily use is over 3 times your normal seasonal use.

☒ **Bill Forecast Notifications**
 You will be notified if your use in the current period is on track to exceed **\$50 more** than your normal seasonal bill. We will only contact you a maximum of once per billing period.

☒ **Unplanned Use Notifications**
 You will be notified when use from your property exceeds your Daily Threshold setting.

☒ Email
☒ Text Message
☐ Voice Message

1X 3X 5X

*Typical Seasonal Use: 233 GPD

☒ Email
☐ Text Message
☐ Voice Message

\$ 50

More than your typical bill

☒ Email
☒ Text Message
☐ Voice Message

Daily Threshold (Gallons)

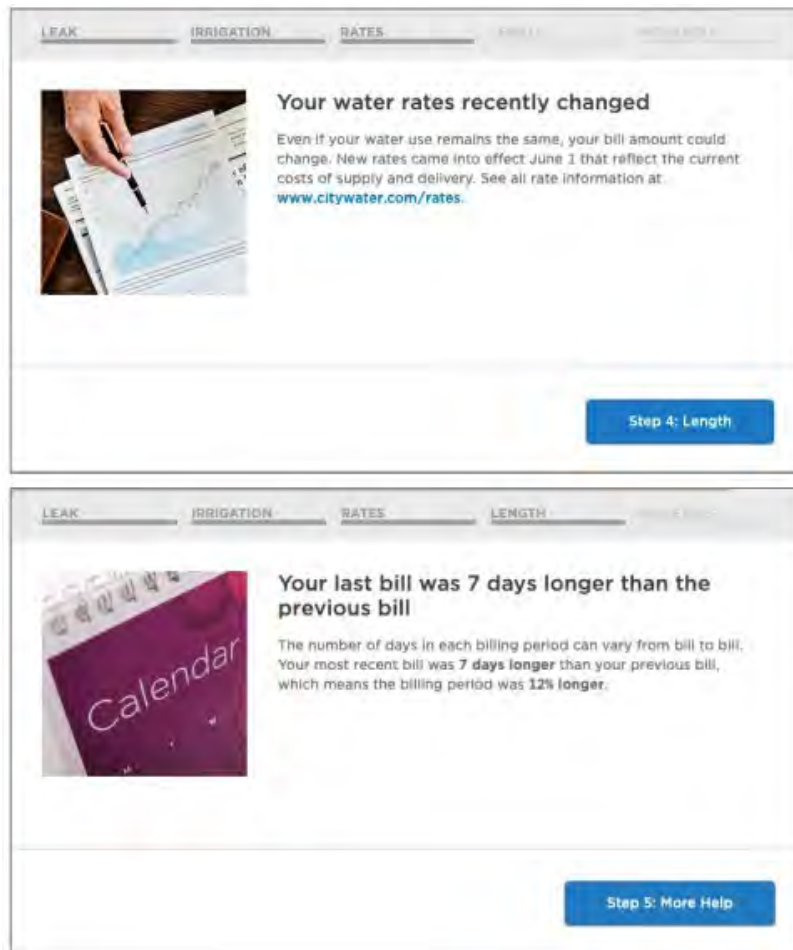
☐ Email
☒ Text Message
☒ Voice Message

Starts on

Ends on

☐ Never

Customizable Multi-Channel Alerts in the Portal



Personalized Bill Explainer in the Portal

b. Provide metrics on the rate of customer adoption of the solution at other utilities.

VertexOne WaterSmart™ measures a range of customer portal adoptions across our 175+ Utility Partners. We measure approximately 20% adoption with our basic platform and standard utility promotion. This grows to a median rate of 50% when our Partners add in AMI and payment integrations (many with both integrations have >50% adoption). This rate can grow to 80% and higher when our Partners maximize engagement (e.g., Customer Welcome Letters, Opt-Out Email + Print Leak Alerts, Water Reports) and implement best practices (e.g., train CSRs to collect emails and phone numbers + facilitate registration at every customer interaction).

It's important to note that while Portal adoption is an important metric, it doesn't tell the whole story. **VertexOne WaterSmart™** can still engage customers using our Opt-Out Email + Print Leak Alerts even if they have not registered for the Portal.

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2
August 24, 2021

To: Honorable President and Members of the Board of Directors
From: Christy Colby – Regulatory and Public Affairs Manager
Subject: **Water Conservation Alert Change**

ACTION ITEM:

Consideration and motion to move the current Water Conservation Alert from Phase 1, Blue to Phase 2 Green

BACKGROUND:

In July 2021, the District adopted a Water Shortage Contingency Plan (WSCP). The plan contains a six-level water conservation alert based on water shortage levels as outlined below. The District is currently in Phase 1 – Color Code Blue.

Stage No.	Water Supply Conditions	% Shortage
Phase 1 - Color Code “Blue”	Standard Water Conservation. FMWD can meet all Member Agency demands. Voluntary water conservation applies.	Up to 10%
Phase 2 - Color Code “Green”	Increased Water Conservation. Some supplies have been impacted, and consumers should increase efforts to conserve.	10% to 20%
Phase 3 - Color Code “Yellow”	Extraordinary Water Conservation. MWD is withdrawing water from most of its storage programs to meet demands. Extraordinary conservation is called for from consumers.	20% to 30%
Phase 4 - Color Code “Orange”	Allocation. MWD has implemented its allocation plan to its member agencies. Thus, supplies are limited.	30% to 40%
Phase 5 - Color Code “Red”	Critical. Water supplies are reduced drastically.	40% to 50%
Phase 6 - Color Code “Purple”	Emergency. Water supplies are only available for health and safety needs.	Greater than 50%

Each color code represents different outdoor water restrictions.

Stage No.	Outdoor Watering Restrictions
Phase 1 - Color Code “Blue”	Outdoor irrigation is allowed any day of the week.
Phase 2 - Color Code “Green”	Outdoor Irrigation is limited to odd or even days, based on ending number of customer’s address.
Phase 3 - Color Code “Yellow”	Outdoor irrigation will be permitted only on Tuesday, Thursday, and Saturday.
Phase 4 - Color Code “Orange”	Outdoor irrigation will be permitted only on Tuesday and Saturday.
Phase 5 - Color Code “Red”	Outdoor irrigation is limited to no more than one (1) day per week.
Phase 6 - Color Code “Purple”	All Outdoor Irrigation is limited prohibited.

DISCUSSION

On August 11, 2021, Staff attended a Foothill Municipal Water District (FMWD) Meeting to discuss the member agencies’ current conservation levels and the appropriate timing to adjust the conservation alert to the next level. The group discussed the current water supply outlook and the low 5% State Water Project allocation, as well as the Governor’s request for voluntary 15% conservation for the region. The FMWD member agencies agreed to request their Board’s approval to move to the next level of water shortage, which for CVWD is Phase 2 - Color Code “Green”.

The most significant change in moving to the Phase 2 - Green alert level is that outdoor watering moves from any day of the week to odd or even days, based on the ending number of customer addresses. Addresses ending in an even number signifies watering on even-numbered calendar days. Addresses ending in an odd number signifies watering on odd-numbered calendar days. Outdoor watering is not allowed during the hours of 9:00 a.m. – 5:00 p.m. unless watering by hand. If approved, this change would be implemented on September 1, 2021.

Following the FMWD meeting on August 11th, both the City of Glendale and the City of Pasadena announced they would move to a stage two water shortage. For Glendale, that means 3 days per week watering, Tuesday, Thursday, Saturday, and for Pasadena that means 2 days per week as assigned by odd even addresses. Additionally, MWD announced that they would issue a Water Supply Alert indicating rationale for the heightened alert. “The action calls for water agencies and consumers in Southern California to voluntarily reduce their water demand to mitigate the need for more severe

actions, such as restricting supplies to Metropolitan's 26-member public agencies through financial penalties for excessive use."

On Monday, August 16th, the federal government declared a water shortage on the Colorado River for the first time. This will trigger mandatory water consumption cuts for states in the Southwest, as drought pushes the level in Lake Mead to unprecedented lows. Lake Mead is the largest reservoir in the US by volume. This Colorado River reservoir is at its lowest since the lake was filled after the Hoover Dam was completed in the 1930s. Lake Powell, which is also fed by the Colorado River and is the country's second-largest reservoir, recently sank to a record low and is now 32% full.

Governor Gavin Newsom directed the State Water Resources Control Board (State Water Board) to "track and report monthly on the State's progress toward achieving a 15-percent reduction in statewide urban water use as compared to 2020 use."

The District fills out a monthly summary report online for the State Board. This report contains water use, population data, conservation levels, the number of waste of water reports received, followed up on by the District, and the number of fines or penalties issued for the given month. The first month the State Board will report will be July. The District's water use for July 2021 was 5.1% lower than for 2020. Currently there is no penalty for not making the required reduction as the 15% conservation is voluntary.

RECOMMENDATION

It is Staff's recommendation that the Board approve a move to Phase 2 Green Water Supply Shortage consistent with statewide and regional conservation efforts.

Prepared and Submitted by:



Christy J. Colby
Regulatory and Public Affairs Manager

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 3
August 24, 2021

To: Honorable President and Members of the Board of Directors

From: David S. Gould, P.E. – Director of Engineering

Subject: City of Glendale Mutual Aid and Assistance Agreement

ACTION ITEM:

City of Glendale Mutual Aid and Assistance Agreement – Consideration and motion to authorize the General Manager to enter into a Mutual Aid and Assistance Agreement with the City of Glendale.

BACKGROUND:

CVWD's 2020 Strategic Plan Goal #6 was to develop and participate in programs to maximize regional collaboration including establishing mutual aid agreements with regional stakeholders. Staff has been steadily working towards this goal by reviewing existing mutual aid agreements with FMWD and Public Water Agencies Group (PWAG) with its 17 member agencies as well as new mutual aid agreements with Los Angeles County, Public Works and the Cities of Glendale and La Canada Flintridge.

The City of Glendale (Glendale) and CVWD have historically provided mutual aid to each other when requested and in response to emergencies and sewer overflows. However, there has been no formal agreement stipulating the parties' obligations, liability provisions or terms of reimbursement.

DISCUSSION:

Glendale and CVWD collaborated on developing a formal mutual aid agreement between Glendale, Public Works and CVWD that includes provisions for response to planned and unplanned outages and local emergencies. The major terms of the mutual aid agreement include the following:

- Assistance from either agency for wastewater equipment, bypass system for wastewater, other supplies, and personnel will be given only when either agency determines that its own needs can be met while rendering assistance to the other.
- Cost will be reimbursed unless otherwise mutually agreed between the parties.
- Requesting party shall indemnify the responding party.

RECOMMENDATION:

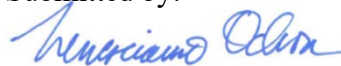
It is staff's recommendation to authorize the General Manager enter into a Mutual Aid and Assistance Agreement with the City of Glendale, Public Works Department. The formal mutual aid agreement has been reviewed by CVWD's legal counsel.

Prepared by:



David S. Gould, P.E.
Director of Engineering

Submitted by:



Nem Ochoa
General Manager

Attachment: City of Glendale Mutual Aid and Assistance Agreement

CITY OF GLENDALE AND CRESCENTA VALLEY WATER DISTRICT MUTUAL RESPONSE & ASSISTANCE AGREEMENT

This AGREEMENT is made and entered between the City of Glendale, referred to as “Glendale” and Crescenta Valley Water District (referred to as “CVWD”) (also referred to as each a “PARTY” and collectively, the “PARTIES”), on this ____ day of _____, 2021 (“Effective Date”), which have adopted and signed this agreement to provide mutual response and assistance in times of emergency in accordance with the California Emergency Services Act and the California Disaster and Civil Defense Master Mutual Aid Agreement; and to provide reimbursement for equipment, supplies and personnel made available on an emergency basis as specified herein.

In consideration of the mutual covenants and agreements hereinafter set forth, the parties agree to provide mutual assistance to one another in times of emergency as follows:

ARTICLE I. PURPOSE

Recognizing that emergencies may require assistance in the form of personnel, equipment, and supplies from outside the area of an emergency’s impact, the parties hereby establish an Intrastate Program for Mutual Aid, Response and Assistance. Through this Mutual Aid, Response and Assistance Program (the “Program”), Parties coordinate response activities and share resources during emergencies and assist during local emergencies or planned or unplanned outages, as defined herein. This Agreement sets forth the procedures and standards for the administration among the parties.

ARTICLE II. DEFINITIONS

- A. **Authorized Official** – An employee or officer of Glendale or CVWD who is authorized to:
 - 1. Request assistance;
 - 2. Offer assistance;
 - 3. Refuse to offer assistance or
 - 4. Withdraw assistance under this agreement.
- B. **Emergency** – A natural or human caused event or circumstance causing, or imminently threatening to cause, impact to the operations of the Parties’ system, loss of life, injury to person or property, human suffering, or financial loss, and includes, but is not limited to, fire, flood, severe weather, earthquake, civil disturbance, riot, explosion, drought, volcanic activity, spills or releases of oil or hazardous materials, contamination, utility or transportation emergencies, disease, blight, infestation, intentional acts, sabotage, declaration of war, or other conditions which is, or is likely to be, beyond the control of the services, personnel, equipment, and facilities of a Party and requires mutual assistance.
- C. **Confidential Information** - Any document shared with any signatory of this Agreement that is marked confidential, including but not limited to any map, report, notes, papers, opinion, or e-mail which relates to the system vulnerabilities of the Parties.
- D. **Period of Assistance** – A specified period of time when either Party assists or responds to an event. The period commences when personnel, equipment, or supplies depart from Responding Parties’ facility and ends when the resources return to their facility (portal to portal).

All protections identified in this Agreement apply during this period. The specified Period of Assistance may occur during response to or recovery from an Emergency, as previously defined, or during an Outage, as defined herein.

- E. ***National Incident Management System*** (NIMS) - A national, standardized approach to incident management and response that sets uniform processes and procedures for emergency response operations.
- F. ***Standardized Emergency Management System*** (SEMS) - A standardized approach to field command and jurisdictional management and response set forth by State of California Code of Regulations for multi-agency or multi-jurisdictional response to an emergency.
- G. ***Outage*** – A period of time where a Party’s water or wastewater supply is interrupted to the extent that the interruption jeopardizes the health and safety of the Parties’ customers. An Outage is “planned” when either Party is given at least three (3) days prior notice of the interruption in supply. An Outage is “unplanned” when the Outage occurs without at least three (3) days prior notice of the interruption in supply, including when the Outage occurs unexpectedly.

ARTICLE III. ADMINISTRATION

The mutual response and assistance shall be administered through the City of Glendale, Public Works Department and CVWD’s Emergency Preparedness coordinator.

The purpose to provide local coordination of mutual response and assistance before, during, and after an Emergency or Outage. The Parties shall meet as frequently as necessary, but at least quarterly, to address mutual response and assistance issues and review emergency preparedness and response procedures. The Parties shall work together to plan and coordinate emergency planning and response activities and shall ensure that all Parties are informed of such activities and have the opportunity to participate in all related planning and training activities.

ARTICLE IV. PROCEDURES

- A. In coordination, the parties, shall develop operational and planning procedures for mutual response and assistance. These procedures shall be consistent with the Standardized Emergency Management System (SEMS), the National Incident Management System (NIMS) and this Agreement. These procedures shall be reviewed at least annually and updated as needed by the Parties.
- B. Requests for emergency assistance or assistance with any Outage under this Agreement shall be directed to the appropriate Authorized Official(s) representing the Parties.

ARTICLE V. REQUESTS FOR ASSISTANCE

In general, assistance will be in the form of resources, such as equipment, bypass system for wastewater, other supplies, and personnel. Assistance shall be given only when the Responding Party determines that its own needs can be met while rendering assistance. The execution of this Agreement shall not create any duty to respond on the part of any party hereto. A potential Responding Party shall not be held liable for failing to provide assistance. A potential Responding Party has the absolute discretion to decline to provide any requested assistance.

- A. **Responsibility**- Each Party shall identify an Authorized Official and alternates; provide contact information including 24-hour access and maintain resource information that may be available from the utility for mutual aid and assistance response. Such contact information shall be updated annually or when changes occur and be promptly provided to either Party.
- B. **Party Request**- In the event of an Emergency or Outage (planned or unplanned), a Parties' Authorized Official may request mutual aid and assistance from the other Party. Requests for assistance can be made orally or in writing. When made orally, the request for personnel, equipment, supplemental water supplies and other supplies shall be prepared in writing as soon as practicable. Requests for assistance shall be directed to the Authorized Official of the participating Party. Specific protocols for requesting aid shall be provided in the required procedures to be established by the Parties pursuant to Article IV hereof.
- C. **Response to a Request for Assistance** – Either Party is not obligated to respond to the other Party's request. After a Party receives a request for assistance, that Party's Authorized Official evaluates whether or not to respond, whether resources are available to respond, or if other circumstances would hinder response. Following the evaluation, that Party's representative shall inform, as soon as possible, the requesting Party whether they will respond. If the Party is willing and able to provide assistance, the Party shall inform the Requesting Party about the type of available resources and the approximate arrival time of such assistance. If a Party determines it cannot respond to a request for assistance, that Party shall not be responsible for any consequences associated with its failure to respond.
- D. **Discretion of Responding Party's Authorized Official** – Execution of this Agreement does not create any duty for any Party to respond to a request for assistance. When a Party receives a request for assistance, the Authorized Official shall have sole and absolute discretion as to whether or not to respond, or the availability of resources to be used in such response. A Party's decisions on the availability of resources shall be final.

ARTICLE VI.

RESPONSE COORDINATION

When providing assistance under this Agreement, the Parties shall be organized and shall function under the Standard Emergency Management System and National Incident Management System protocols and procedures.

- A. **Personnel** - Responding Party retains the right to identify the specific employees to be provided to a Requesting Party and the resources that are available.
- B. **Control** – While employees so provided may be under the supervision of the Responding Party, the Responding Party's employees come under the direction and control of the Requesting Party, consistent with the NIMS Incident Command System to address the needs identified by the Requesting Party. The Requesting Party's Authorized Official shall coordinate response activities with the designated supervisor of the Responding Party. Whenever practical, Responding Party personnel must be self-sufficient for up to 72 hours. The Responding Party's designated supervisor(s) must keep accurate records of work performed by Responding Party's personnel during the specified Period of Assistance.
- C. **Food and Shelter** – When possible, the Requesting Party shall supply reasonable food and shelter for Responding Party personnel. If the Requesting Party is unable to provide food and shelter for Responding Party personnel, the Responding Party's designated supervisor is authorized to secure the resources necessary to meet the needs of its personnel. Except as provided below, the cost for such resources must not exceed the state per diem rates for that area. To the extent food and shelter costs exceed the state per diem rates for the area, the Responding Party must demonstrate that the

additional costs were reasonable and necessary under the circumstances. Unless otherwise agreed to in writing, the Requesting Party remains responsible for reimbursing the Responding Party for all reasonable and necessary costs associated with providing food and shelter, if such resources are not provided.

- D. **Communication** – The Requesting Party shall provide Responding Party personnel with radio equipment as available, or radio frequency information to program existing radios, in order to facilitate communications with local responders and utility personnel.
- E. **Status** - Unless otherwise provided by law, the Responding Party's officers and employees retain the same privileges, immunities, rights, duties and benefits as provided in their respective jurisdictions; and shall remain officers and employees, as applicable, of the Responding Party.
- F. **Licenses and Permits** – To the extent permitted by law, Responding Party personnel that hold licenses, certificates, or permits evidencing professional, mechanical, or other skills shall be allowed to carry out activities and tasks relevant and related to their respective credentials during the specified Period of Assistance.
- G. **Right to Withdraw Resources** - The Responding Party retains the right to withdraw some or all of its resources at any time for any reason in the Responding Party's sole and absolute discretion. Notice of intention to withdraw must be communicated to the Requesting Party as soon as is practicable under the circumstances.

ARTICLE VII. COST - REIMBURSEMENT

Unless otherwise mutually agreed in whole or in part by both parties, the Requesting Party shall reimburse the Responding Party for each of the following categories of costs incurred while providing aid and assistance during the specified Period of Assistance.

- A. **Personnel** – Responding Party will make such employees as are willing to participate available to Requesting Party at Requesting Party's expense equal to any Responding Party's full cost, i.e., equal to the employee's applicable salary or hourly wage, plus fringe benefits and overhead, and consistent with Responding Party's collective bargaining agreements, if applicable, or other conditions of employment. All costs incurred for work performed during the specified Period of Assistance will be included. The Requesting Party shall be responsible for all direct and indirect labor costs.
- B. **Equipment** – Use of equipment, such as construction equipment, vehicles, tools, pumps, and generators, shall be at a Responding Party's current equipment rate and subject to the following conditions: The Requesting Party shall reimburse the Responding Party for the use of equipment during the specified Period of Assistance, including, but not limited to, reasonable rental rates, all fuel, lubrication, maintenance, transportation, and loading/unloading of loaned equipment. All equipment shall be returned to the Responding Party as soon as is practicable and reasonable under the circumstances.
 - a. At the option of Responding Party, equipment may be provided with an operator.
 - b. Equipment shall be returned to Responding Party within 24 hours after receipt of an oral or written request for return.
 - c. During the Period of Assistance, Requesting Party shall, at its own expense, supply all fuel, lubrication, and maintenance for furnished equipment; provided that Requesting Party shall obtain Responding Party's consent before performing any such maintenance.
 - d. Responding Party's cost related to the transportation, handling and loading/unloading of equipment shall be chargeable to Requesting Party.

- e. In the event equipment is damaged while being dispatched to Requesting Party, or while in the custody and use of Requesting Party, Requesting Party shall reimburse Responding Party for the reasonable cost of repairing said damaged equipment. If the equipment cannot be repaired, then Requesting Party shall reimburse Responding Party for the cost of replacing such equipment with equipment that is of at least equal capability as determined by the Responding Party. If Responding Party must lease a piece of equipment while Requesting Party equipment is being repaired or replaced, Requesting Party shall reimburse Responding Party for such lease costs.
- C. **Materials and Supplies** – The Requesting Party must reimburse the Responding Party in kind or at actual replacement cost, plus handling charges, for use of expendable or non-returnable supplies. The Responding Party must not charge direct fees or rental charges to the Requesting Party for other supplies and reusable items that are returned to the Responding Party in a clean, damage-free condition. Reusable supplies that are returned to the Responding Party with damage must be treated as expendable supplies for purposes of cost reimbursement.
- D. **Payment Period** – The Responding Party must provide an itemized bill to the Requesting Party for all expenses incurred by the Responding Party while providing assistance under this Agreement. The Responding Party must send the itemized bill not later than ninety (90) days following the end of the Period of Assistance. The Responding Party may request additional periods of time within which to submit the itemized bill and Requesting Party shall not unreasonably withhold consent to such request. The Requesting Party must pay the bill within 60 days following the billing date. The Requesting Party may request additional periods of time within which to pay the itemized bill and Responding Party shall not unreasonably withhold consent to such request, provided, however, that all payment shall occur not later than one-year after the date a final itemized bill is submitted to the Requesting Party.
- E. **Records** - Each Requesting Party and its duly authorized representatives shall have access to a Responding Party's books, documents, notes, reports, papers, and records which are directly pertinent to this Agreement for the purposes of reviewing the accuracy of a cost bill or making a financial, maintenance or regulatory audit. To the extent it deems necessary, each Responding Party and its duly authorized representatives shall have access to a Requesting Party's books, documents, notes, reports, papers, and records which are directly pertinent to this Agreement. Such records shall be maintained for at least three (3) years or longer where required by law and as needed for federal reimbursement practices.

ARTICLE VIII.

ARBITRATION

If any controversy or claim arises out of, or relates to, the Agreement, including, but not limited to an alleged breach of the Agreement, the disputing Parties shall first attempt to resolve the dispute by negotiation, followed by mediation and/or non-binding arbitration in accordance with the Rules of the American Arbitration Association.

ARTICLE IX.

REQUESTING PARTY'S DUTY TO INDEMNIFY

Pursuant to Government Code Section 895.4, and subject to Article X, Requesting Party shall assume the defense of, fully indemnify and hold harmless Responding Party, its Directors, officers, employees and agents, from all claims, loss, damage, injury and liability of every kind, nature and description, directly or indirectly arising from the Requesting Party's work hereunder, including, but not limited to, negligent or wrongful use of equipment, supplies or personnel provided to Requesting Party or faulty workmanship or other negligent acts, errors or omissions by a Responding Party, or by personnel provided to Requesting Party, from the time assistance is requested and rendered until the assistance is returned to Responding Party's control, portal to portal.

ARTICLE X.
WORKER'S COMPENSATION CLAIMS

The Responding Party is responsible for providing worker's compensation benefits and administering worker's compensation for its employees. The Requesting Party is responsible for providing worker's compensation benefits and administering worker's compensation for its employees.

ARTICLE XI.
NOTICE

Each party hereto shall give to the others prompt and timely written notice of any claim made or any suit instituted coming to its knowledge, which in any way, directly or indirectly, contingently, or otherwise, affects or might affect them, and each Party shall have the right to participate in the defense of the same, as it considers necessary to protect its own interests.

ARTICLE XII.
INSURANCE

Parties of this Agreement shall maintain an insurance policy or maintain a self-insurance program that covers activities that it may undertake, including, but not limited to, worker's compensation and commercial general liability insurance, and insurance on property, vehicles, and equipment.

ARTICLE XIII.
CONFIDENTIAL INFORMATION

To the extent allowed by law, any Party shall maintain in the strictest confidence and shall take all reasonable steps necessary to prevent the disclosure of any Confidential Information provided to it by another Party pursuant to this Agreement. If any Party or third party requests or demands, by subpoena or otherwise, that a Party disclose any Confidential Information provided to it under this Agreement, the Party shall immediately notify the owner of the Confidential Information and shall take all reasonable steps necessary to prevent the disclosure of any Confidential Information by asserting all applicable rights and privileges with respect to such information and shall cooperate fully in any judicial or administrative proceeding relating thereto.

ARTICLE XIV.
EFFECTIVE DATE

This Agreement shall take effect immediately upon its execution by the Parties.

ARTICLE XV.
WITHDRAWAL

Any party may terminate its participation in this Agreement by written notice to both Parties. Withdrawal takes effect 60 days after the appropriate official receives notice. Withdrawal from this Agreement shall in no way affect a Requesting party's duty to reimburse a Responding Party for cost incurred during a Period of Assistance, which duty shall survive such withdrawal.

ARTICLE XVI.
AMENDMENT

Amendments to this Agreement must be in writing, signed by both Parties.

ARTICLE XVII.
SEVERABILITY

If any term or provision of this Agreement is declared by a court of competent jurisdiction to be Illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular term or provision held to be invalid.

ARTICLE XVIII.
PRIOR AGREEMENTS

This Agreement supersedes all prior Agreements between the Parties to the extent that such prior Agreements are inconsistent with this Agreement.

ARTICLE XIX.
PROHIBITION ON THIRD PARTIES AND ASSIGNMENT OF RIGHTS/DUTIES

This Agreement is for the sole benefit of the Parties and no person or entity shall have any rights under this Agreement as a third-party beneficiary. Assignments of benefits and delegations of duties created by this Agreement are prohibited and any such attempted assignment or delegation shall have no effect.

ARTICLE XX.
TORT CLAIMS

This Agreement in no way abrogates or waives any immunity or defense available under California law.

ARTICLE XXI.
INTRASTATE AND INTERSTATE MUTUAL AID AND ASSISTANCE PROGRAMS

To the extent practicable, Parties retain the right to participate in mutual aid and assistance activities conducted under the State of California Intrastate WARN Mutual Aid and Assistance Program and the Interstate Emergency Management Assistance Compact (EMAC) and similar programs.

ARTICLE XXII.
NOTICES

All notices, approvals, acceptances, and other communication required or permitted under this Agreement shall be in writing and shall be deemed validly given on the date either: 1) personally delivered to the address indicated below, or 2) on the third business day following deposit, postage prepaid, using certified mail, return receipt requested, in any U.S. Postal mailbox or at any U.S. Post Office, or 3) one business day after the dispatch date by overnight delivery service, or 4) on the date of transmission by facsimile or electronic mail to the number or e-mail address provided below. All notices shall be addressed to the following:

CITY OF GLENDALE

Attn: _____
City of Glendale
633 E. Broadway, Suite 209
Glendale, CA 91206
Facsimile: (818) 552-2852
E-mail: _____

CRESCENTA VALLEY WATER DISTRICT

Attn: _____
2700 Foothill Boulevard
La Crescenta, CA 91214-3516
Facsimile: (818) 248-1659
E-mail: _____

IN WITNESS WHEREOF, a duly authorized representative of each Party hereto has executed this Agreement.

CITY OF GLENDALE

By: _____
(City Manager)

Date: _____

Approved as to form:

By: _____
Dorine Martirosian
Principal Assistant City Attorney

CRESCENTA VALLEY WATER DISTRICT

By: _____
(General Manager)

Date: _____

Approved as to form:

By: _____
Thomas S. Bunn III
General Counsel

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 4
August 24, 2021

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – Director of Engineering
Subject: Wastewater Collection System Presentation – Part 2

ACTION ITEM:

Presentation of the overview and history of CVWD's Wastewater Collection System, Part 2

BACKGROUND:

During the June 8, 2021, Board meeting, the Board requested Staff to provide a presentation with respect to the background on the District's wastewater collection system.

On June 22, 2021, Staff presented the first part of a multi-part overview and history of the system that included the following:

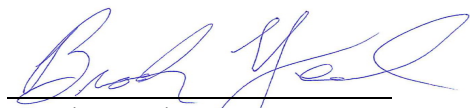
- Construction of the wastewater collection system in the early 1980s
- Funding from Assessment Districts and Grant from Clean Water Act
- Construction of the sewer interceptor to LAGWRP
- Construction ion exchange plant and brine waste line
- Development and implementation of the Sewer System Management Plan (SSMP)
- City of Los Angeles Conveyance, Treatment & Disposal of Wastewater Agreement
 - Amalgamated System Sewerage System Charges (ASSSC)
 - Amalgamated System Sewerage Facilities Charges (ASSFC)
- City of La Canada Flintridge Conveyance Agreement
- Recycled or Reclaimed Water

DISCUSSION:

The overview and history of CVWD's Wastewater Collection System, Part 2 will present the following:

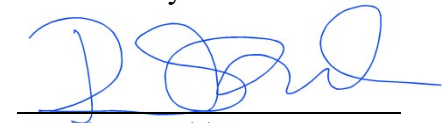
- Summary of 10-year CVWD's wastewater strength and flow data
- Breakdown of City of Los Angeles Annual Conveyance, Treatment & Disposal Costs
- 10-year Review of Conveyance, Treatment & Disposal Costs
- Summary of CVWD Wastewater Rates
- Inflow and Infiltration Study
- Wastewater Master Plan
- Wastewater Options for the Future

Prepared by:



Brook Yared, M.S., P.E.
Engineering Manager

Submitted by:



David S. Gould, P.E.
Director of Engineering

Attachment(s):

1. Wastewater System Presentation – Part 2



CVWD Wastewater Collection System:

Overview & History of CVWD's Wastewater System Part 2

Prepared by: David S. Gould and Brook Yared

Date: August 24, 2021

Agenda

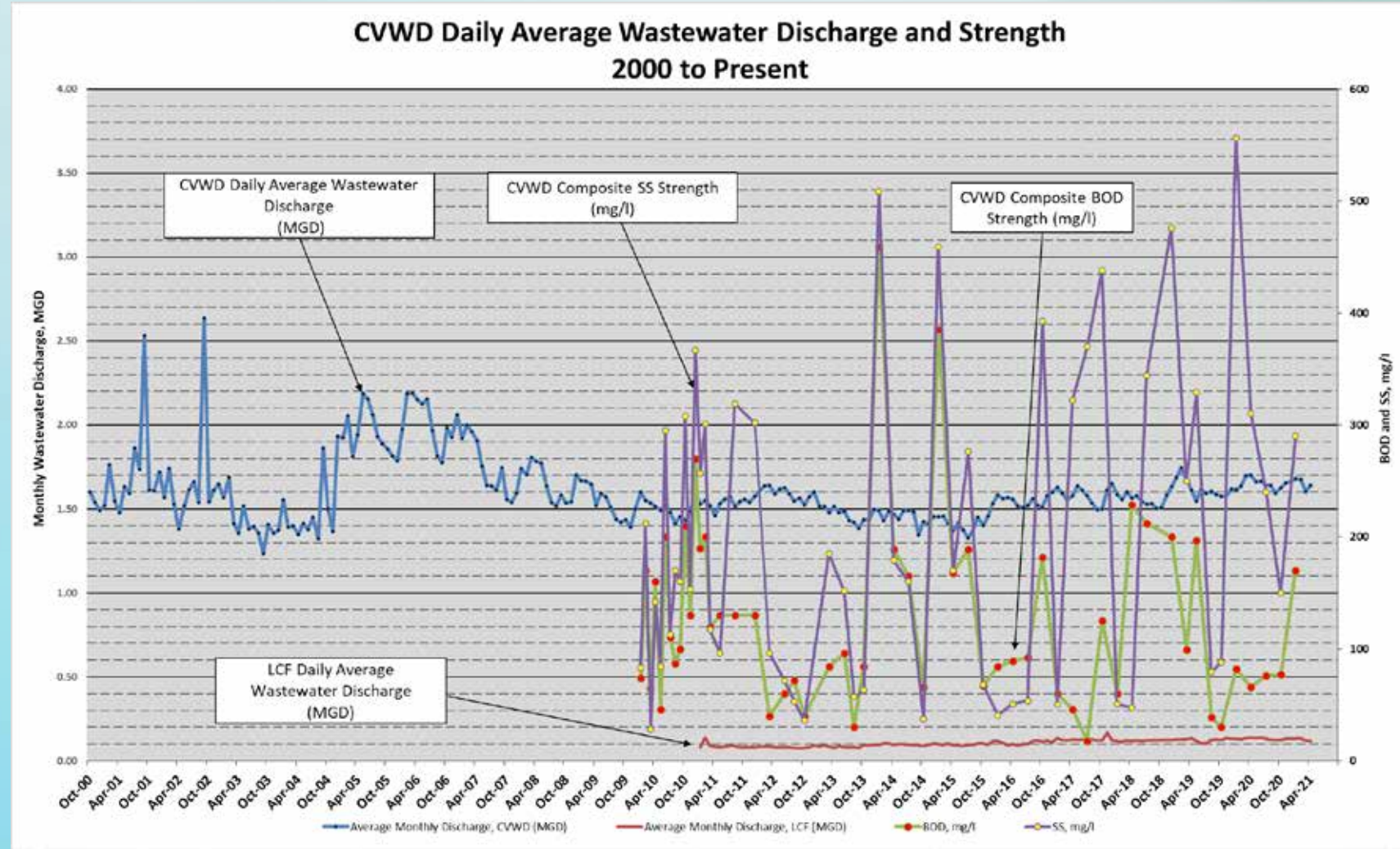
- **City of Los Angeles Contract**
 - 10-year Strength and Flow
 - Breakdown of Annual Conveyance, Treatment & Disposal Costs
 - 10-year Review of Conveyance, Treatment & Disposal Costs
- **CVWD**
 - Wastewater Rates Summary
 - Inflow and Infiltration Study
- **Wastewater Master Plan**
- **Wastewater Options for the Future**

Definition and Acronyms for Reference:

- **ASSSC** - Amalgamated System Sewerage System Charge
- **ASSFC** - Amalgamated System Sewerage Facilities Charge
- **BOD** – Biological Oxygen Demand - measure of the amount of oxygen required to remove waste matter
- **SS** – Total Suspended Solids is the number of suspended particles, that are not dissolved
- **MGD** – Million Gallons per Day
- **MGD-Miles** - Calculated based on regional flows of agencies contributing to the Amalgamated Sewer System

City of Los Angeles – 10-year Strength and Flow

- Flow – Daily Average 1.54 MGD
- Strength
 - BOD - Annual Avg. – 1,270 mg/l
 - Suspended Solids is the suspended particles, that are not dissolved
 - Annual Avg. – 310 mg/L
- Typical for Residential – 275 to 400 mg/L
- Typical for Commercial – 100 to 1,500 mg/L



City of Los Angeles – Breakdown of Costs

- ASSSC & ASSFC both dependent on MGD-Miles
 - ASSSC – Treatment/Disposal
 - ASSFC – New construction results in additional flow
- MGD-Miles
 - Calculated based on regional flows of agencies contributing to the Amalgamated Sewer System
- ASSFC
 - Bi-monthly Summary uses D-Miles
 - Pass-through cost to Developers

AMALGAMATED SYSTEM SEWERAGE AGREEMENT

CONTRACT AGENCY:

Crescenta Valley Water District

Amalgamated System Sewerage Facilities Charge (ASSFC) - Bi-monthly Net Increase Data Summary

(New Development, Changes in Land Use, and Increases in Discharge from Industrial Dischargers)

Fiscal Year:	2020-21	Change Rates:
Flow, \$ per mgd		\$ 1,649,730.80
BOD, \$/ppd		\$ 434.59
SS, \$/ppd		\$ 334.03
Conveyance, \$ per mgd-mi		\$ 418,766.25
D _{miles}		12.90

For the period:

September 1, 2020 - October 31, 2020

Enter data for Fiscal Year
Enter data for yellow boxes

Item No.	Parcel No.	Date Permit Filled	Baseline Discharge			Anticipated Discharge				Net Discharge			mgd-miles	ASSFC	
			Land Use	Flow (gpd)	BOD (mg/L)	SS (mg/L)	Land Use	Flow (gpd)	BOD (mg/L)	SS (mg/L)	Flow (gpd)	BOD (ppd)			SS (ppd)
D-20-08	3158 Los Olivos	08/14/20	104 = 2 Bld 1840	230	205	275	104 = 2 Bld 1840	230	205	275	110	0.34	0.29	0.0074	
			Convert existing garage to ADU												
			Item Total								110	0.34	0.29	0.0074	965.82
D-17-53	2509 Frances St	04/11/19	204 = 1 Bld 1840	180	205	275	204 = 1 Bld 1840	180	205	275	130	0.30	0.31	0.0074	
			Item Total								130	0.30	0.31	0.0074	1,073.60
D-20-73	2759 Sanborn	09/20/20	104 = 2 Bld 1840	230	205	275	104 = 2 Bld 1840	230	205	275	150	0.33	0.34	0.0074	
			Item Total								150	0.33	0.34	0.0074	1,219.76
D-20-06	2807 Altamira	09/20/20	104 = 1 Bld 1840	180	205	275	104 = 1 Bld 1840	180	205	275	110	0.34	0.29	0.0074	
			Item Total								110	0.34	0.29	0.0074	965.82
Total for Two-Month Period											580	1.12	1.18	0.0062	2,174.40

Fiscal Year: 2020-21

Charge Rates:

Flow, \$ per mgd

\$ 1,649,730.80

BOD, \$/ppd

\$ 434.59

SS, \$/ppd

\$ 334.03

Conveyance, \$ per mgd-mi

\$ 418,766.25

D_{miles}

12.90

Enter data for Fiscal Year

Enter data for yellow boxes

- MGD-MILES Equation

- Example – FY 19 / 20

- Brine waste reported to City of Los Angeles by CVWD in Annual Diversion Report.

CVWD WASTEWATER RECONCILIATION
BILL OVERVIEW (19/20)



City of Los Angeles – 10-year Review of Costs

- **ASSSCS Billing Projections**
 - o Sent out – April / May each year
 - o Estimated for 5 years
 - o Operations & Maintenance Costs
 - o Capital Improvement Costs
 - o “F” Factor – Estimate percent
- **Reconciliation – Previous Year**
 - o Sent out – Jan / Feb each year
 - o Based on projects completed & M & O costs for the previous year
 - o Either Credit or additional payment

CITY OF LOS ANGELES CALIFORNIA					
BOARD OF PUBLIC WORKS MEMBERS ERIC GARCETTI MAYOR AURA GARRIA VICE MAYOR DR. MICHAEL A. DAVIS PROBATIONARY MEMBER JESSE M. SALAZAR COMMISSIONER M. TERESA VILLEGAS COMMISSIONER Brock Yared Senior Engineer Crescenta Valley Water District 2700 Foothill Boulevard La Crescenta, CA 91214 Dear Mr. Yared: CRESCENTA VALLEY WATER DISTRICT TRANSMITTAL OF BILLING PROJECTIONS FOR FY 2021-22 THROUGH 2025-26 This letter is transmitting the 5-year billing projections for wastewater service 2021-22 through 2025-26, attached. The calculation is based on Los Angeles' WIP Improvement Program (WICIP). Since the WICIP is evaluated and adjusted based on schedule, available resources, project needs and revised cost estimates arising off projections could be lower or higher than the projections submitted to you last year. Please note that the budgeted capital costs included in these projections are only system projects with prioritization scores above the level corresponding to the available. If you would like to review the calculation of the 5-year projections, please call Susan staff at (213) 485-2326 and she will be happy to send you a copy. In addition, please with any questions or comments you may have on the projections. Sincerely, ENRIQUE C. ZALDIVAR, P.E. Director and General Manager LA Sanitation and Environment By:  Eric Sung Division Manager Financial Management Division SR ECZ/EPS/DHB/SR/TLM Attachment: 5-Year Projections zero waste • zero wasted water AN EQUAL EMPLOYMENT OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER					
TABLE 1. SUMMARY OF PROJECTED AGENCY CHARGES O&M AND CAPITAL PORTIONS OF ASSSCS					
	2021-22 (\$000)	2022-23 (\$000)	2023-24 (\$000)	2024-25 (\$000)	2025-26 (\$000)
Aneta Street	62.5	71.0	61.6	64.3	72.1
Beverly Hills	4,426.1	5,004.6	4,411.4	4,845.1	5,447.4
Burbank	4,544.8	5,160.6	4,567.5	4,561.7	5,031.0
Crescenta Valley	1,655.8	1,873.4	1,654.1	1,824.9	2,040.6
CSD 4	4,128.4	4,651.5	4,132.1	4,657.6	5,253.4
CSD 5	862.3	977.1	857.2	912.9	1,024.1
CSD 16	558.5	625.6	570.4	656.8	738.8
CSD 27	149.2	169.3	147.8	156.2	175.2
Culver City	2,858.1	3,242.1	2,801.3	3,084.6	3,495.0
El Segundo	2,164.4	2,467.7	2,114.7	2,133.5	2,397.9
Federal Office Building	9.6	10.8	9.4	11.1	12.5
Glendale	9,238.8	10,387.3	9,375.7	10,347.5	11,616.4
Karl Holton Camp	6.8	7.8	6.2	6.6	7.5
La Canada	173.5	196.5	172.1	188.5	212.0
Las Virgenes	554.3	624.4	559.2	619.1	695.1
Marina Del Rey	1,748.0	1,991.1	1,716.7	1,784.8	1,996.2
San Fernando	1,925.1	2,170.4	1,929.5	2,142.4	2,415.6
Santa Monica	10,641.1	12,048.3	10,528.1	11,550.7	13,036.4
Triunfo	147.4	165.2	150.4	173.8	195.4
Universal City	1,035.4	1,164.3	1,045.6	1,178.8	1,327.4
Veterans Administration	292.8	331.2	292.2	319.8	358.9
WLA Community College	22.9	26.0	22.8	24.3	27.2
CSD 9	263.9	300.6	258.9	267.2	299.7
City of Long Beach	54.8	62.6	53.5	54.4	61.1
Total	\$47,522.4	\$53,729.4	\$47,438.4	\$51,566.6	\$57,937.0

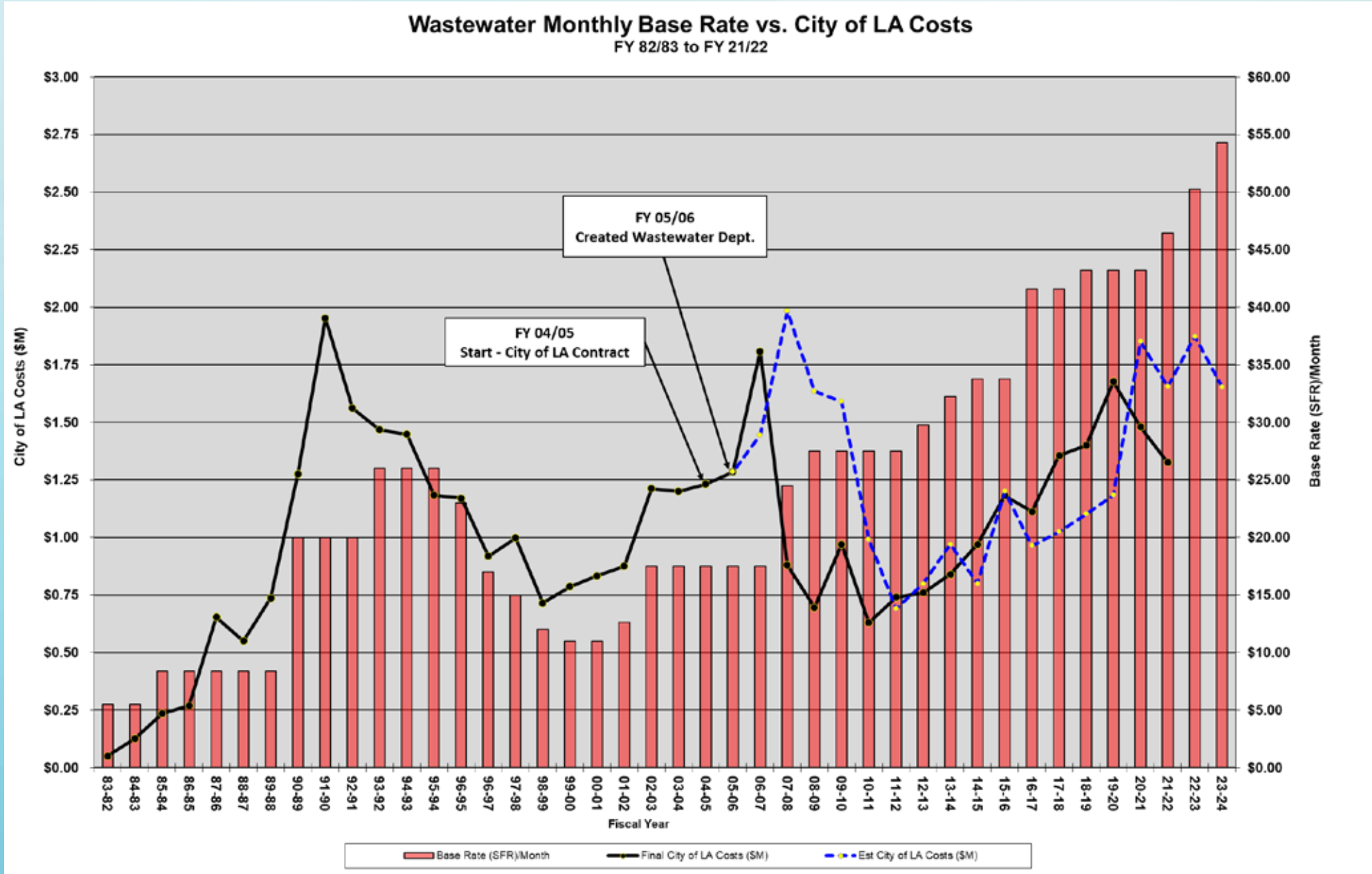
Projection -ASSSC 2021-22 - Final
Summary

4/27/2021

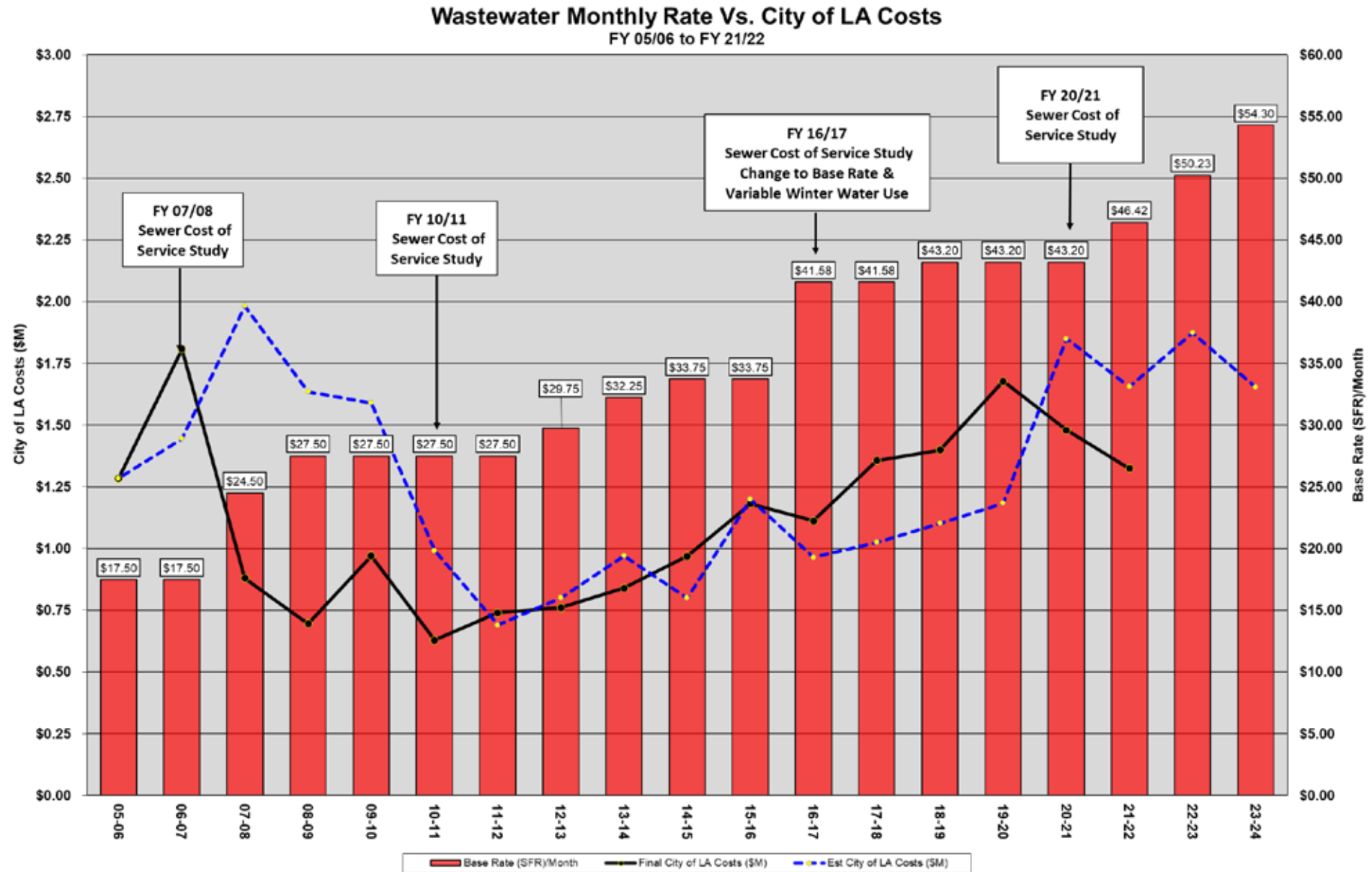
City of Los Angeles – 10-year Review of Costs

Summary of City of LA - Projections																
Fiscal Year	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26
FY 2010-11	\$992,300	\$1,116,000	\$995,500	\$980,700	\$1,280,400											
FY 2011-12		\$966,200	\$1,088,900	\$1,116,300	\$983,000	\$1,074,600										
FY 2012-13			\$1,045,400	\$1,201,900	\$1,373,000	\$1,492,600	\$1,530,100									
FY 2013-14				\$1,421,300	\$1,682,500	\$1,699,700	\$1,631,000	\$1,594,200								
FY 2014-15					\$1,103,211	\$2,222,700	\$1,940,400	\$1,900,800	\$1,337,900							
FY 2015-16						\$1,605,696	\$1,803,700	\$1,618,400	\$1,349,300	\$1,121,900						
FY 2016-17							\$1,202,982	\$1,386,600	\$1,218,000	\$1,545,100	\$817,300					
FY 2017-18								\$1,220,221	\$1,378,000	\$1,293,000	\$1,094,700	\$1,006,900				
FY 2018-19									\$1,326,900	\$1,492,700	\$1,159,800	\$1,181,300	\$1,106,000			
FY 2019-20										\$1,578,524	\$1,582,800	\$1,424,200	\$1,378,800	\$1,331,700		
FY 2020-21											\$1,850,000	\$1,709,000	\$2,084,200	\$1,881,500	\$1,947,900	
FY 2021-22												\$1,655,800	\$1,873,700	\$1,654,100	\$1,824,900	\$2,040,600
Estimated Invoice		\$706,221	\$940,868	\$1,079,869	\$803,498	\$1,195,867	\$964,799	\$1,024,959	\$1,101,540	\$1,183,861	\$1,480,000	\$1,325,987	\$1,500,484	\$1,324,626	\$1,461,405	\$1,634,140
Estimate "F" Factor		0.73	0.90	0.76	0.73	0.74	0.80	0.84	0.83	0.75	0.80	0.80	0.80	0.80	0.80	0.80
Reconciliation Cost		\$51,529	(\$42,416)	(\$128,557)	\$166,323	(\$14,262)	\$89,079	\$331,219	\$331,777							
Actual Cost w/Reconciliation	\$629,204	\$757,750	\$898,452	\$951,312	\$969,821	\$1,181,605	\$1,053,878	\$1,356,178	\$1,433,317	\$1,183,861	\$1,480,000	\$1,325,987				
Actual - Projected	(\$363,096)	(\$208,450)	(\$146,948)	(\$469,988)	(\$133,390)	(\$424,091)	(\$149,104)	\$135,957	\$106,417	(\$308,839)	\$320,200	\$144,687				
Percentage increase/decrease from previous year		20%	19%	6%	2%	22%	-11%	29%	6%	-17%	25%	-10%				

CVWD – Wastewater Rates Summary



CVWD – Wastewater Rates Summary

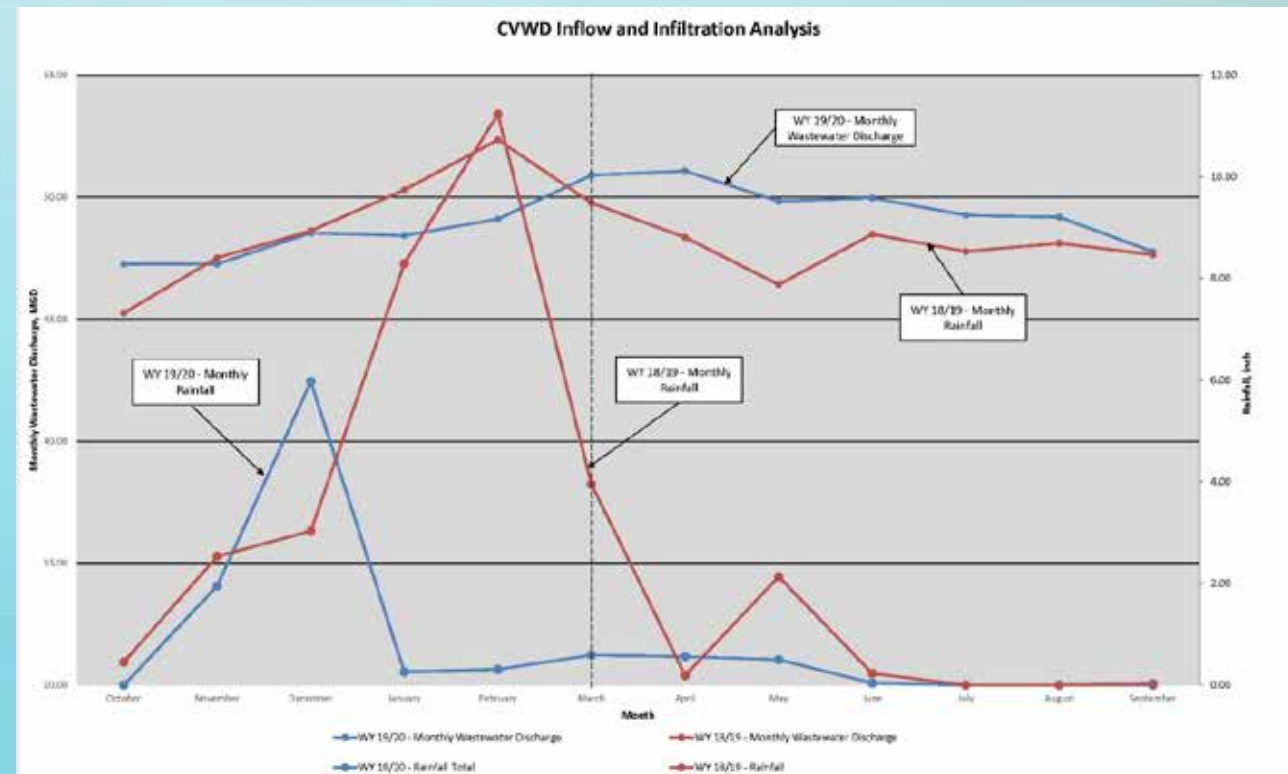


Inflow and Infiltration

- Where does inflow and Infiltration come from:
 - Surface Flows through Maint. Hole Covers
 - Cracks in Sewer Mains
 - Offsets at Pipe Joints
 - Maintenance Holes Section Gaps
- Ratio of the average dry weather wastewater flows and average wet weather wastewater flows (ADWF).
- Not currently regulated but adds to treated wastewater. Good Indicator of system condition.
- ADWF is equal to the average wastewater discharge over three driest months (June, July, Aug.)
- AWWF is equal to the average wastewater discharge over three wettest months (January, February, March)

Inflow and Infiltration Summary

Year	Dry Weather (MGD)	Wet Weather (MGD)	Difference (MGD)	5-yr avg
2010	1.47	1.56	0.06	11.09%
2011	1.55	1.53	-0.01	9.50%
2012	1.59	1.63	0.03	5.95%
2013	1.45	1.50	0.04	4.34%
2014	1.49	1.47	-0.01	2.08%
2015	1.36	1.44	0.06	2.11%
2016	1.53	1.57	0.03	2.83%
2017	1.58	1.59	0.01	2.54%
2018	1.53	1.58	0.03	2.41%
2019	1.60	1.70	0.06	3.86%
2020	1.65	1.65	0.00	2.62%



Wastewater Master Plan

Major elements:

1. Use CVWD's wastewater GIS & As-builts
2. Location of new flow monitoring stations
3. Hydraulic Analysis – Determine design vs actual capacity
4. Develop an Inflow/Infiltration Study
5. Future Development & Flows – Review Zoning & Housing Element Plan for Los Angeles County & LCF
6. Review District's standard details (i.e. pre-cast sewer manhole).
7. Prioritized short- & long-term Capital Improvement Program (CIP) plan.

• Proposed Project Schedule

Wastewater Master Plan Preliminary Project Schedule			
Task	State Date	End Date	Days
Draft RFP	July-21	August-21	35
Staff Report	August-21	August-21	4
Engineering Com	August-21	August-21	0
Final RFP	August-21	September-21	6
Send out	September-21	September-21	2
Pre-Proposal Mtg	September-21	September-21	20
Proposal Due	September-21	October-21	22
Staff Report	October-21	October-21	2
Board Meeting - Award Contract	October-21	October-21	4
Kickoff Mtg	October-21	November-21	14
Data Request	November-21	November-21	14
30% Submittal	November-21	March-22	120
90% Submittal	March-22	September-22	176
Staff Report	September-22	September-22	1
Engineering Com	September-22	September-22	4
100% Submittal	September-22	October-22	30
Staff Report	October-22	October-22	1
Board Meeting - Approved	October-22	October-22	4

Wastewater Options for Future

Wastewater Treatment Feasibility Study

- Future 3.0MG (min.) WW Treatment Plant by CVWD with possible partnerships - Glendale & LCF
- LA County Sanitation District - New Pump Station – Send Flow to LA County Sanitation District through LCF & Pasadena
- Membrane Bioreactor (MBR) Plants – combines membrane filtration with biological treatment
 - Reduce flow to City of LA
 - Sludge Removal
 - Recycled Water – Groundwater Recharge

Next Step

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 5
August 24, 2021

To: Honorable President and Members of the Board of Directors
From: James Lee – Director of Finance and Administration
Subject: **Budget & Proposition 218 Process**

ACTION ITEM:

Placeholder for discussion and possible action for schedule, timing, and other considerations related to completing the budget and Proposition 218 process.

DISCUSSION:

This action item serves as a placeholder for any discussion related to the schedule and timing for completing the budget, Prop 218 process, and related considerations. A schedule of meetings and tasks is updated on an ongoing basis and included with each placeholder.

RECOMMENDATION

NA.

Submitted by:



James Lee
Director of Finance & Administration

Attachment(s): 1) CVWD Meeting Schedule (ongoing updates)

g:\management\board meeting staff reports\2021\08-24-21 Board Memo - Budget & Prop 218 Placeholder.docx

FY 2021/22 - CVWD Meeting Schedule <i>(ongoing updates)</i>		
Date	Agenda	Status
Week of 3/15	Finance Committee Meeting (CIP & Budget Discussion) * Engineering Committee Meeting *	✓
Week of 3/15	Community Advisory Committee Meeting *	✓
3/23	Board Meeting - Budget Discussion	✓
Week of 3/29	Finance Committee Meeting (Cost of Service & Rate Design / Budget) * Engineering Committee Meeting *	✓
Week of 3/29	Community Advisory Committee Meeting *	✓
4/13	Board Meeting - Budget Discussion	✓
Week of 4/19	Finance Committee Meeting * Engineering Committee Meeting *	✓
Week of 4/19	Community Advisory Committee Meeting *	✓
4/27	Board Meeting - Budget Discussion	✓
5/11	Board Meeting	✓
Week of 5/10	Finance Committee Meeting (Sewer Pass through / Budget) * Engineering Committee Meeting *	✓
5/25	Board Meeting - (FY 2022 Budget Approved)	✓
6/8	Board Meeting	✓
Week of 6/14	Community Relations Committee (Prop 218 Notice) * Finance Committee Meeting *	✓
6/22	Board Meeting - Review Prop 218 Notice	✓
7/13	Board Meeting	✓
Week of 7/12	Finance Committee Meeting (Draft Cost-of-Service Report/218 Notice) *	✓
7/20	Special Board Meeting - Review Cost-of-Service Report/218 Notice	✓
7/27	Board Meeting - Approve Cost-of-Service Report/218 Notice	✓
Week of 8/2	Mail 218 Notice	✓
8/24	Board Meeting	
9/14	Board Meeting	
Week of 9/20	Prop 218 Letters - 45 days	
9/21	Public Hearing - Last Day for 218 protest letters - Water/Wastewater Rates	
9/28	Board Meeting - Adopt Rates & Budget	
10/1	Implement Adopted Rates	

* Subsequent meetings will be scheduled as needed.

CRESCENTA VALLEY WATER DISTRICT

General Manager Report

GM Report

August 24, 2021

To: Honorable President and Members of the Board of Directors
From: Nem Ochoa, General Manager
Subject: **General Manager Report**

General Managers Report Topics:

- GM Activities

The following are some highlights in this month's report:

- Drought Impact and Water Supply Conditions
- Operational Activities
- Water Production, Hydrology, Engineering Projects
- Finance, Administration & Public Outreach Dashboard

STAFFING

One (1) employee has a work anniversary in August. Darlene Telles – 7 years

As of August 19th, the District has gone 639 days without a lost time accident.

GENERAL MANAGER ACTIVITIES

Meetings:

Weekly Managers Meeting	- August 9 th , August 16 th
AMI Customer Engagement Platform Interviews	- August 10 th – August 12 th
FMWD Retail Agency Managers Meeting	- August 11 th
All-Hands Meeting (CVWD Gumbo)	- August 18 th
Town Council Meeting	- August 19 th

Submitted by:



Nem Ochoa
General Manager

Engineering Report

August 24, 2021
Staff Report

To: Honorable President and Members of the Board of Directors
From: David S. Gould, P.E. – Director of Engineering
Subject: Engineering Report – July 2021

1. Water Production Report

- July 1 – 31 – Water production – 44%/56% split – 132.1 MG for the month
- Average use – 5.2% less than 2020 and 1.1% greater than 5-yr average

2. Rainfall Update

- 0.03” for July 2021
- Rainfall Total for Rainfall Year 2020/21 – 7.57”

3. Report on Engineering

• **FY 20/21 Capital Improvement Projects**

- Rosemont Reservoir Rehabilitation - Complete
- FY 20/21 - Pipeline Replacement Program
 - Project 1 – 2400 & 2500 Blocks of Janet Lee - Complete
 - Project 2 – 4300 Block of Rosemont – Complete
 - Project 3 – 3300 & 3400 Blocks of Encinal – Complete
 - Project 4 – El Caminito, Dryer, etc. – Under Construction. Complete by Sept 2021.
- Emergency Generator at Sewer Lift Station
 - License Agreement with LA County Parks & Recreation
 - Under review by CVWD Legal Counsel
 - Estimated completion date – Nov 2021
- Rehabilitation of Well 12 – Complete
- SCADA Radio Communications Network
 - Staff working on Request for Quote
- SCADA System Upgrades
 - Kickoff meeting for Pilot Program for Wells 8 & 14
- Ramsdell Mixing Station/Pressure Reducing Station
 - Reviewing Design Alternatives

• **FY 21/22 Capital Improvement Projects**

- FY 21/20 – Pipeline Replacement Program
 - Consultant finalizing pipeline alignment
 - Potholing for utility crossings & connection to ex. water mains
- Edmund #2 Reservoir Rehabilitation
 - Under Design

• **Grant Program**

- Local Hazard Mitigation Plan – Sent to Cal OES for Approval
- USBR WaterSmart Grant – Waiting until Oct. 2021.
- Stormwater Capture Project at Crescenta Valley County Park – response to LADWP.

- **AMI Communication Network**

- Installation of Base Stations & 100 water meter lids & SmartPoints – Complete
- Verifying data – Complete.
- Customer Engagement Portal platform – See Staff Report

4. **Developer Projects**

- 2314 Montrose – New 5 Units – Construction of water service – Reconciliation
- 4360 Ocean View – New Fire Hydrant construction – Complete
- 2341 Mira Vista – New 4 Units – Plan check
- 3037/3043 Foothill – New 38 Units and mixed commercial – Plan Check/ Hydraulic Analysis
- Waiting on Developer
 - 4521 Briggs/2413 Foothill – New 70 Units
 - 3900 Park Place – New 28 Units
 - 2345 Mira Vista – New 4 Units
 - 1961 Waltonia – New 6 Units

5. **FMWD** – No Report

CRESCENTA VALLEY WATER DISTRICT

WATER PRODUCTION REPORT

July 1 - July 31, 2021

Well Production:	51,017,000	Gals		
GWP Production:	5,338,000	Gals		
Gravity Production:	1,275,087	Gals	% GW	44%
Purchased Water:				
FMWD:	74,452,748	Gals		
City of Glendale:	0	Gals	% Import	56%
TOTAL:	132,082,835	Gals		
	405.35	ac-ft		
Glenwood Nitrate Water Reclamation Plant:*	0			

*Included in Well Production

WATER DEMAND COMPARISON

Time Period	Average Daily Usage (gals)	Current Period Change
July 1 - July 31, 2021	4,269,687	
July 1 - July 31, 2020	4,501,659	-5.2%
5-yr Average - July 2016 - 2020	4,221,235	1.1%

RAINFALL: July 1 - July 31, 2021 0.03"

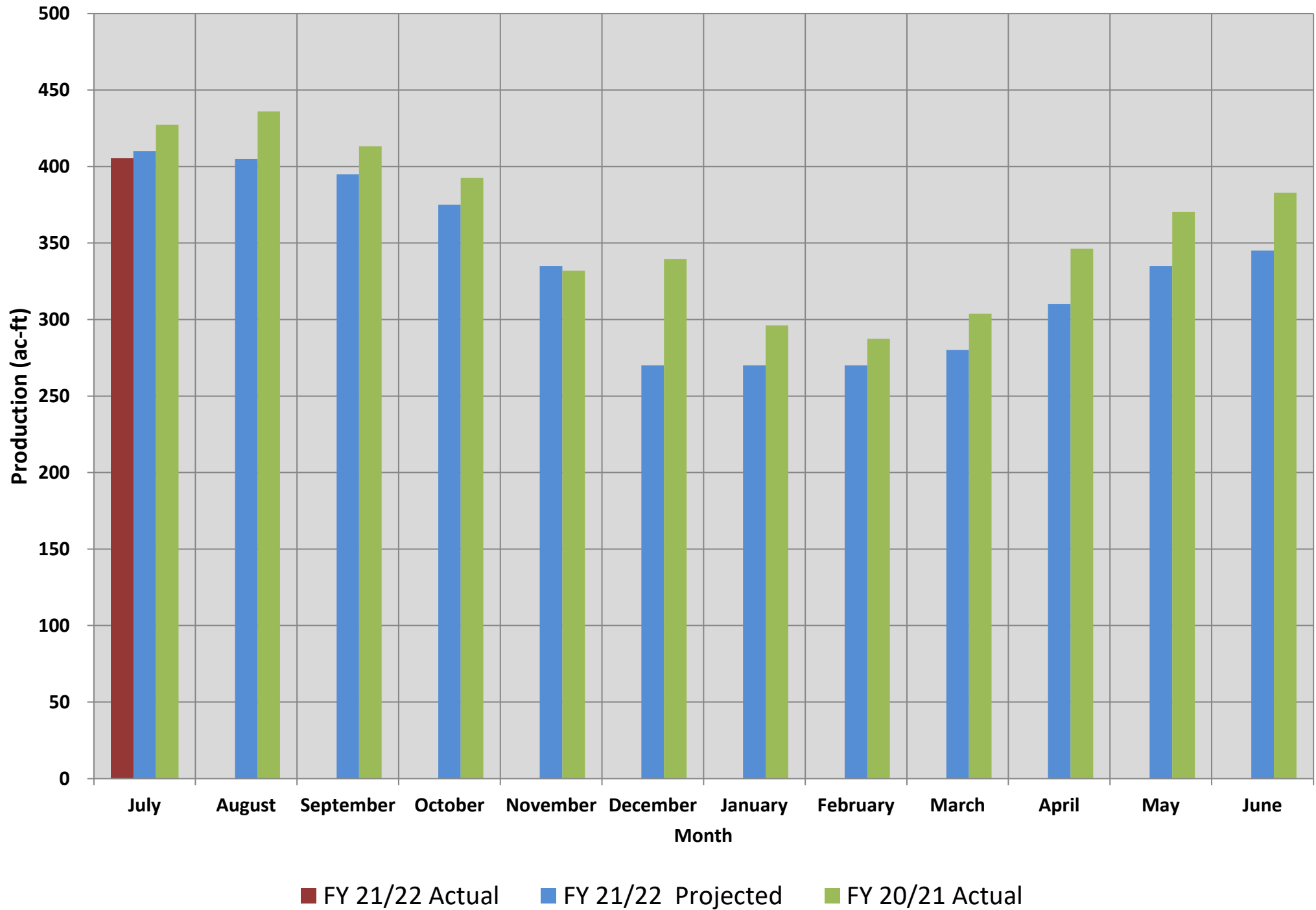
Season-To-Date: 7.57"

2020/21 Fiscal Year Water Production			WY 20/21 - Groundwater Production Water Rights		GWP (Well 16) Water Production - 2021		Purchased Water Production Tier 2 Allocation 2021	
Month	Actual Total Water Production (ac-ft)	Projected Total Water Production (ac-ft)	Month	Month	Month	Well Production (ac-ft)	Month	Imported Water Production (ac-ft)
July	405	410	October	160	January	17	January	143
August		405	November	130	February	15	February	120
September		395	December	151	March	17	March	116
October		375	January	136	April	16	April	163
November		335	February	152	May	17	May	189
December		270	March	171	June	16	June	206
January		270	April	167	July	16	July	228
February		270	May	164	August		August	
March		280	June	161	September		September	
April		310	July	160	October		October	
May		335	August		November		November	
June		345	September		December		December	
Total to Date	405	410	Total to Date	1,552	Total to Date	116	Total to Date	1,166
Projected	3,995	4,000	Water Rights	3,294			Tier 2	2,154
% of Projected	10.1%	10.3%	% of Rights	47%			% of Allocation	54%
Remaining	3,595	3,590	Remaining	1,742			Remaining	988

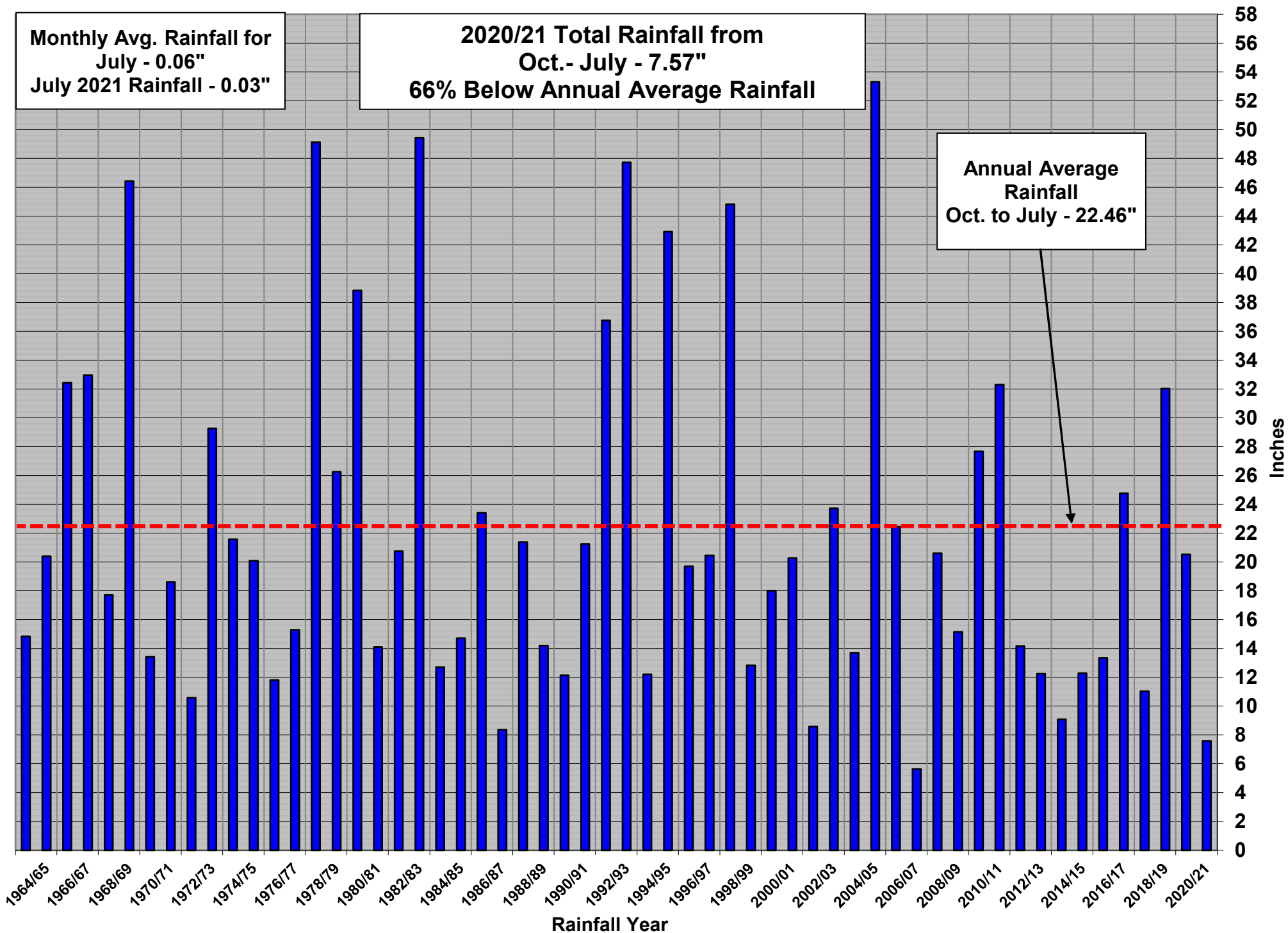
NOTE:

1) Blue Numbers = Estimated Water Production

Monthly Water Production: FY 21/22 Actual, FY 21/22 Projected & FY 20/21 Actual



Monthly Rainfall - 1963/64 - 2020/21 (Oct.- July)



Revised Date: 8/5/2021

Field Maintenance and Operations Report

July 2021

0

Water Main Repairs

15

Water Service
Repairs/Replacements

23

$\frac{3}{4}$ " & 1" Meters Replaced

23

Meter Boxes Cleaned

0

Sewer Pipe Cleaned (ft)

- **Field Maintenance Projects**

- * Developer Jobs:
 - none to report

- **Operations Report**

- * Disinfection/Treatment Maintenance:
 - Well #2 – Chemical Maintenance: Phosphate, Coagulant & Sodium Hypochlorite
- * Booster Pump Maintenance
 - Paschall – Pump B back in service

- **Electrical/Telemetry**

- * Paschall – Troubleshoot Booster A & wired Booster B (back in service)
- * Well 12 – Replaced transducer and installed back panel
- * Eagle Canyon – installed exhaust fan

- **Wastewater Lift Station**

- * De-ragged pumps, check valves & added degreaser as needed

Field Maintenance and Operations Report

July 2021

Days without a lost-time incident: **637**

2

After Hours Leaks/Repairs

4

Fire Hydrant Maintenance
Program: 0 Rebuild, 1 Replaced, 3 painted

179

Water Quality Samples

23

Valves Exercised

0

Valve Replacements

- **Training/Cross Training**

- * Camera/TV Van:

- Jake W. & Jaysen O.

- * Operator:

- Wayne B.

- * Glenwood Plant (In person):

- Leak Detection Training

- **New Certification**

- * None to report

- **Safety**

- * COVID protocols: Continued cleaning

- * Monthly Safety Meeting: Safety Harness



Crescenta Valley Water District – Finance, Administration & Public Outreach Report for < July 2021 >

Customer Service & Administration Activity

**Service
Requests**
321

**Meter
Downloads**
106

**New
Sign-Ons**
76

**Closed
Accounts**
41

**Meter
Re-Reads**
405

- *Received ACWA JPIA Wellness Grant*
- *Reinstated indoor mask requirement*
- *Completed staff computer replacement plan*

Public Outreach Corner

- **Website Traffic** –
 - ~3,000 visits
 - Most views: 'Pay My Bill'
 - Largest percent increase in traffic to Local Hazard Mitigation Plan page
 - Peak website traffic on July 13th
- **Everbridge** –
 - 9 residents updated their account
- **Social Media** –
 - 4 Facebook posts
 - 2 new followers
- **CV Weekly** –
 - 2 ads for Local Hazard Mitigation Plan
 - Turf Rebate ad
 - Editor's article on Roadmap



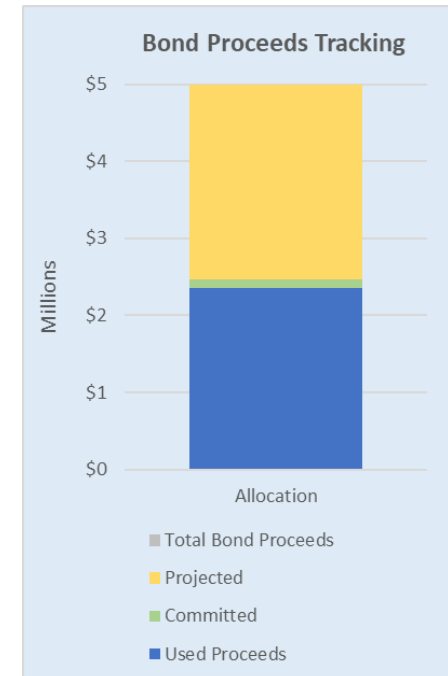
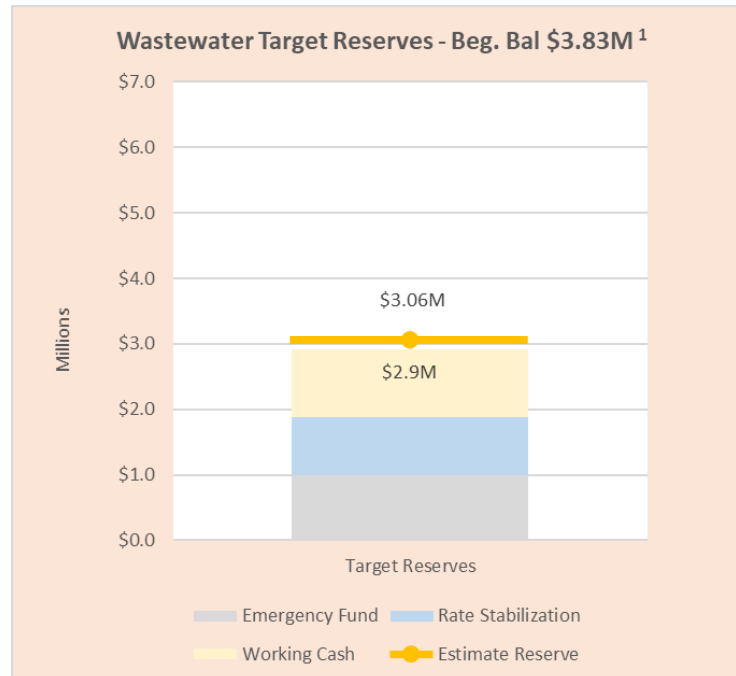
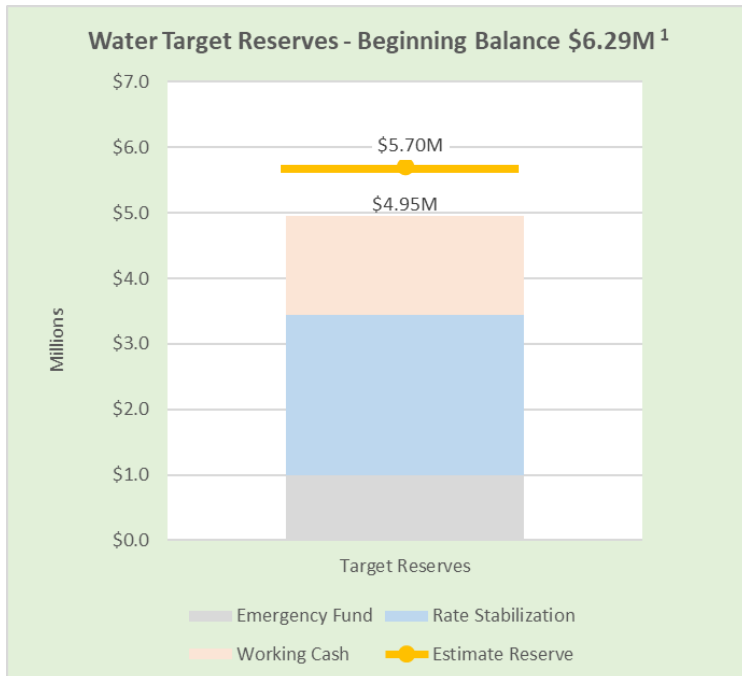
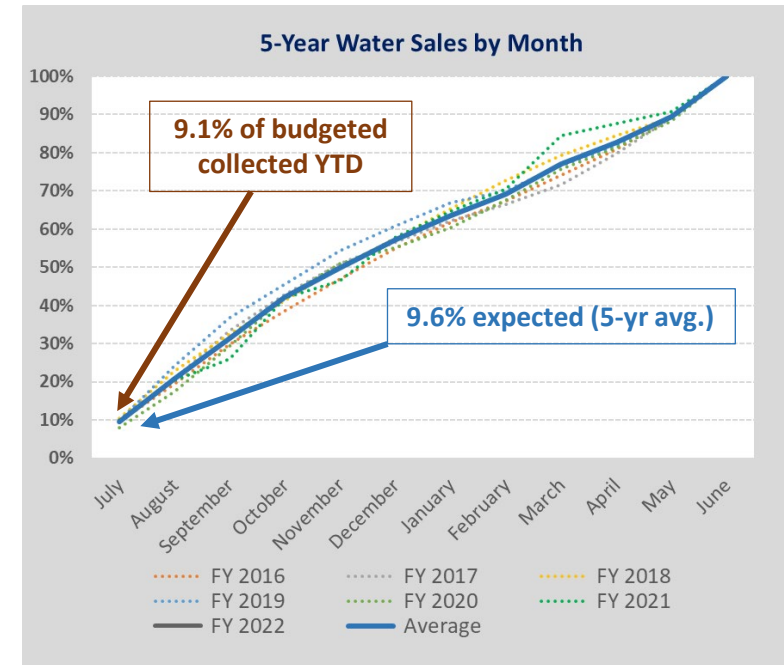
Crescenta Valley Water District – Finance, Administration & Public Outreach Report for < July 2021 >

Water Fund - revenues & operating expenses

Proj. Revenue	\$14,238,000		Proj. Expense	\$10,102,000
Budget	\$14,160,832	101%	Budget	\$10,043,497

Wastewater Fund - revenues & operating expenses

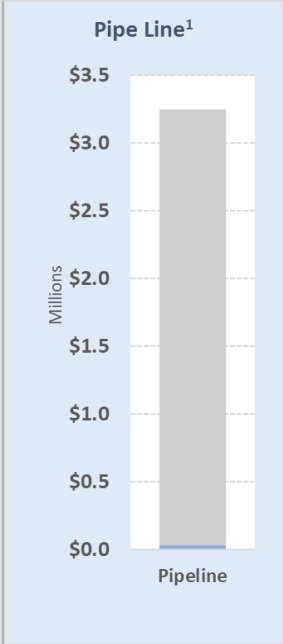
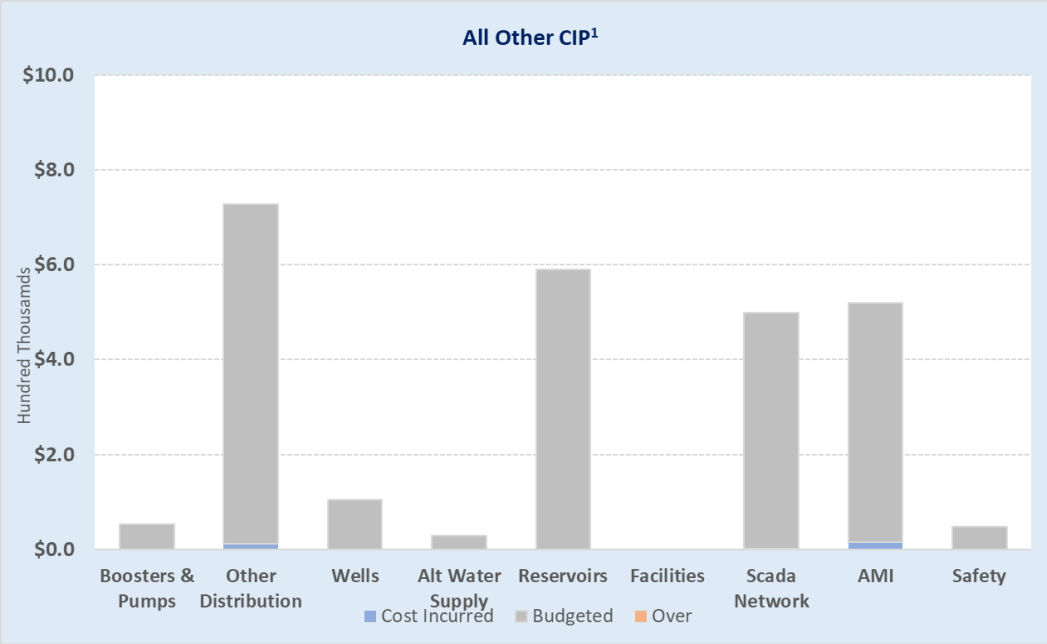
Proj. Revenue	\$3,563,000		Proj. Expense	\$4,158,000
Budget	\$3,622,950	98%	Budget	\$4,158,704



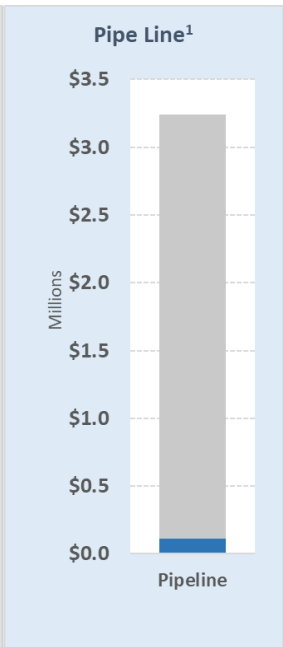
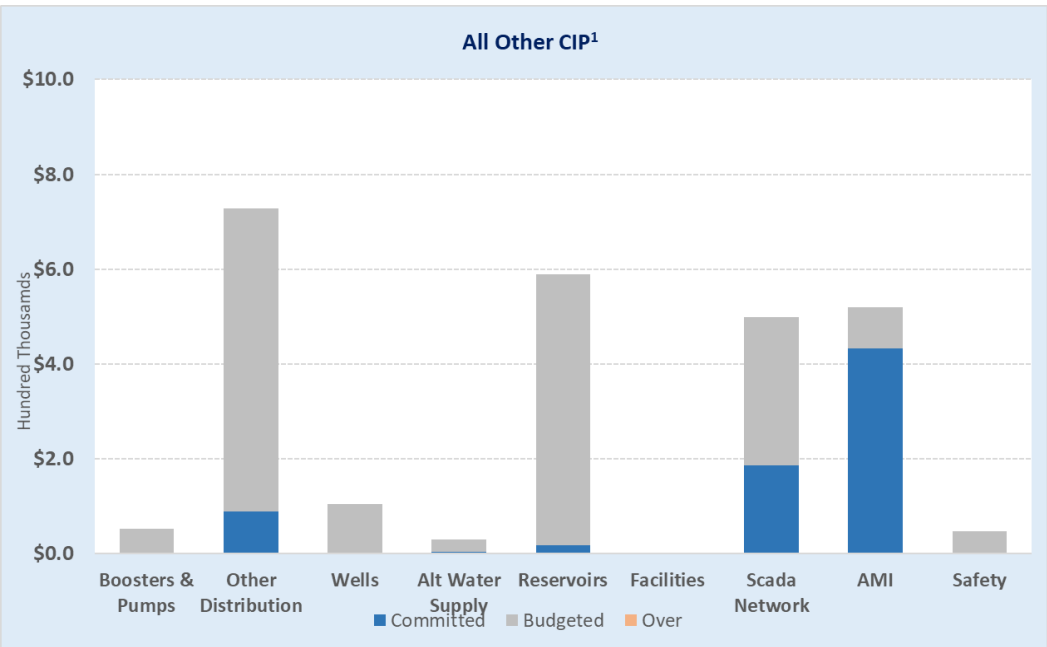
1. CVWD Reserve Policy adopted on 7/28/20



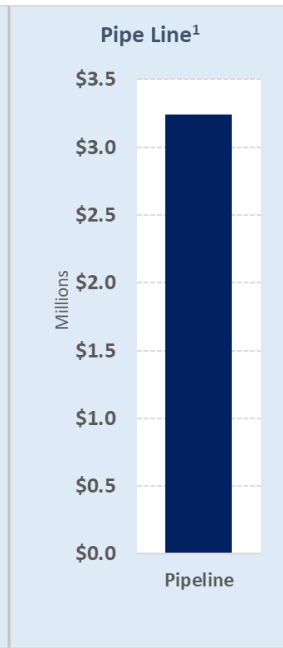
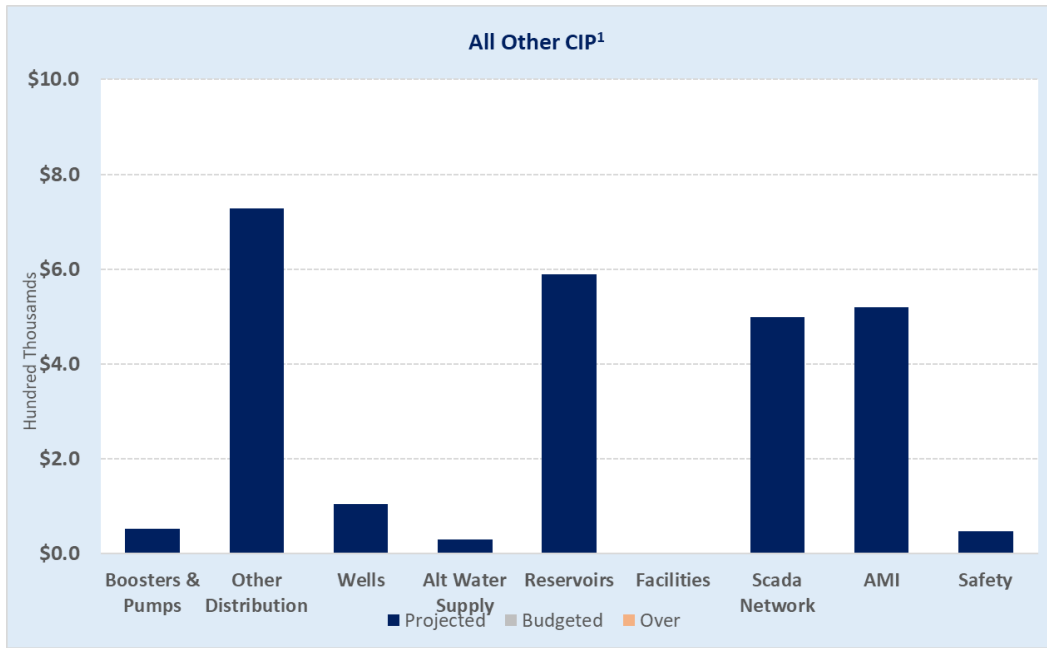
CIP Costs Incurred to Date



CIP Costs Committed to Date



CIP Projected vs. Budgeted



1. Pipelines CIP reported separately to preserve scale of the graph