

CRESCENTA VALLEY WATER DISTRICT

2700 Foothill Boulevard
La Crescenta, California

Agenda for the
Regular Meeting of the Board of Directors
of the Crescenta Valley Water District
to be held on Tuesday, November 10, 2020 at 7:00 p.m.

Posted: Thursday, November 5, 2020 at 3:00 p.m.

AUDIO & VIDEO CONFERENCING NOTICE

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

Pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 18, 2020, the public may not attend the meeting in person.

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: 874 1921 3033

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/87419213033>

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 November 10, 2020.

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.

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 Adjourned Regular Board Meeting on October 27, 2020.

Action Calendar

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

1. **General Manager's Compensation** – Discussion and possible action regarding the General's Manager's Compensation.
2. **Resolution 763, Acceptance of Water Facilities at 4201 Pennsylvania Ave, Project D-16-39** – Consideration and motion to adopt Resolution No. 763 to authorize the General Manager to accept the water facilities within the utility easement for Lot 1 of Tract 73651 located at 4201 Pennsylvania Avenue.
3. **Water Main Replacement on the 3400-3500 Blocks of Encinal Ave., Project E-1021** Consideration and motion to authorize the General Manager to advertise for bids for the construction of approximately 1,660 lineal feet of pipeline replacement on the 3400-3500 Blocks of Encinal Ave. with an engineer's estimate of \$564,300 and to find said project exempt from the provisions of CEQA.

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

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

Board Members' Request for Future Agenda Items

Closed Session – None

Adjournment

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CRESCENTA VALLEY WATER DISTRICT
ADJOURNED REGULAR MEETING, BOARD OF DIRECTORS

October 27, 2020

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District made at the Regular Meeting on October 13, 2020, an Adjourned Regular Meeting was held on October 27, 2020, 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 Kerry D. Erickson presiding.

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

Directors:	Kerry D. Erickson James D. Bodnar Sharon S. Raghavachary Judy L. Tejeda Ken Putnam
Attorney:	Thomas Bunn
General Manager:	Nem Ochoa
Director of Finance & Administration:	James Lee
Director of Engineering:	David Gould
Others Present:	Christy Colby, Regulatory & Public Affairs Manager Dennis Maxwell, Director of Operations Brook Yared, Senior Engineer Arturo Montes, Finance & Administration Manager Wendy Holloway, Customer Service Manager Pam Leddy, Administrative Assistant Tessa Allmon, Customer Service Representative

PLEDGE OF ALLEGIANCE

President Erickson 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 October 27, 2020 be adopted as presented.

AYES:	Director Bodnar Director Erickson Director Putnam Director Raghavachary Director Tejeda
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NOES:	None
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PUBLIC COMMENTS – Ms. Marilyn Tyler thanked CVWD staff for the demonstration and discussion regarding the Automated Meter Infrastructure (AMI) project. Ms. Tyler expressed her appreciation on the October 8, 2020 press release “Water and Wastewater Rates Update”. Ms. Tyler requested clarification on the FY 20/21 Budget Update and First Quarter Budget Report.

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – Mr. Colcord reported that 400 acre feet of water was consumed by Crescenta Valley Water District during the month of October 2020; 56% of this water was purchased from Foothill Municipal Water District (FMWD). Mr. Colcord thanked Mr. Ochoa for his participation in the meeting hosted by FMWD to progress the collaborative efforts with the retail agencies to complete a Risk and Resilience Assessment and Urban Water Management Plan as required by regulations.

CONSENT CALENDAR

It was moved by Director Raghavachary, seconded by Director Tejeda, and carried by a 5-0 roll call vote to approve the Minutes of the Regular Board Meeting held on October 13, 2020 through audio and video conference to ratify the disbursements for September 2020 as presented.

Payment of demands against the Crescenta Valley Water District on or before September 2020, 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 Two-Hundred Forty-Six Thousand, Nine Hundred Sixty Dollars and Ninety-Eight Cents (1,246,960.98), which is composed of the individual items set forth herein.

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

NOES: **None**

ACTION CALENDAR

FY 20/21 Budget Update and First Quarter Budget Report – Mr. Lee proposed two amendments to the FY 2020-21 budget. The amendment was to increase the Debt Service budget by \$41K, and the second was to increase the Interest Income by 38K. Mr. Lee provided the First Quarter Budget Report of the FY 2020-21 indicating that both the water and wastewater funds are projected to meet or exceed budgeted expectations.

Following discussion:

It was moved by Director Raghavachary, seconded by Director Tejeda, and carried by 5-0 roll call vote to authorize budget amendments for Debt Service and Interest Income.

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

NOES: None

8-inch Water Main Replacement on the 2400-2500 blocks of Janet Lee Dr. and the 4300 block of Rosemont Ave., Project E-1008 & 1019 – Mr. Yared requested consideration and motion to authorize the General Manager to award a contract to the lowest responsible bidder Bkrich Construction for the construction of 2,300 lineal feet of pipeline replacement on the 2400-2500 blocks of Janet Lee Drive and the 4300 block of Rosemont Avenue. Mr. Yared also requested consideration and motion to authorize the General Manager to award a contract to Wallace & Associates for Construction Management and Inspection services for the pipeline project at a cost not-to-exceed \$83,280, which covers the construction period from December 2020 to February 2021.

Following discussion:

It was moved by Director Bodnar, seconded by Director Tejeda, and carried by 5-0 roll call vote to award the contract for the subject project to the lowest responsible bidder, Brkich Construction, at a cost of \$626,300 and establish a 10% contingency fund of \$62,630.

It was moved by Director Bodnar, seconded by Director Tejeda, and carried by a 5-0 roll call vote to award a contract to Wallace & Associates for Construction Management and Inspection services for the pipeline project at a cost not-to-exceed \$83,280.

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

NOES: None

Update CVWD's Geographical Information System (GIS) Program Implementation – Mr. Yared gave a presentation and provided updates regarding the progress of CVWD's Geographical Information System (GIS) and water hydraulic modeling programs.

INFORMATION ITEMS – None

WRITTEN COMMUNICATIONS TO DISTRICT – None

REPORTS OF PERSONNEL – No report

GENERAL MANAGER – Mr. Ochoa announced CVWD is partnering with Lifestream Blood Bank to host a blood drive on November 17, 2020 at the Glenwood Plant facilities. A Chili Cook-off and Pumpkin race is scheduled for CVWD employees on October 29, 2020. Ms. Holloway gave an update regarding the reopening of the CVWD Main Office lobby to the public. Mr. Lee spotlighted the addition of a “Finance, Administration & Public Outreach Dashboard” to the board packet on a monthly basis.

ATTORNEY – Mr. Bunn reported that on September 18, 2020, AB 992 was signed by Governor Gavin Newsom, which is the first amendment to the Brown Act to address public officials’ use of social media. This amendment becomes effective January 1, 2021.

REPORTS OF PERSONNEL – None

REPORTS OF COMMITTEES

Engineering Committee – Director Bodnar reported that the Committee had not met. An audio/video conference meeting is scheduled on November 16, 2020.

Finance Committee – Director Tejeda reported that the Committee had met on October 27, 2020. An audio/video conference meeting will be scheduled as needed.

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

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

Community Relations/Water Conservation Committee – Director Tejeda reported that the Committee had met on October 13, 2020. An audio/video conference meeting will be scheduled as needed.

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

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

DIRECTORS’ ORAL REPORTS

Director Erickson – No report

Director Bodnar – No report

Director Tejeda – No report

Director Putnam – No report

Director Raghavachary – Complimented the CVWD crew for their quick response to a water leak reported on Montrose Avenue.

CLOSED SESSION – No reportable action

BOARD MEMBERS REQUESTS FOR FUTURE AGENDA ITEMS – None

ADJOURNMENT

There being no other business to come before the Board, at 9:10 p.m., it was moved by Director Bodnar, seconded by Director Erickson, and carried by a 5-0 roll call vote that the meeting be adjourned to November 10, 2020, at 7:00 p.m.

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

NOES: **None**

APPROVED

Kerry D. Erickson
President

James Lee
Director of Finance & Administration

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 1
November 10, 2020

To: Honorable President and Members of the Board of Directors
From: Kerry Erickson, President of the Board of Directors
Subject: **General Manager's Compensation**

ACTION ITEM:

General Manager's Compensation - Discussion and possible action regarding the General Manager's Compensation.

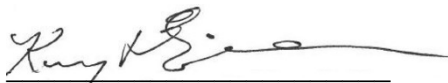
BACKGROUND:

On October 27th, the CVWD Board of Directors concluded their annual performance evaluation of the General Manager. The General Manager has performed very well this past year and has accomplished major goals set in his previous evaluation. He has the District in position to further accomplish the goals established in the 2020 Strategic Plan and to carry out the mission and vision of the District.

RECOMMENDATION

Discuss and consider possible action regarding the General Manager's compensation.

Prepared by:



Kerry Erickson
Board President

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2
November 10, 2020

To: Honorable President and Members of the Board of Directors
From: Brook Yared, M.S., P.E. – Senior Engineer
Subject: Acceptance of Water Facilities for Tract No. 73651, Lot 1, located at 4201 Pennsylvania Ave and Adoption of Resolution No. 763

ACTION ITEM:

Resolution 763, Acceptance of Water Facilities at 4201 Pennsylvania Ave, Project D-16-39 – Consideration and motion to adopt Resolution No. 763 to authorize the General Manager to accept the water facilities within an utility easement for Lot 1 of Tract 73651 located at 4201 Pennsylvania Avenue.

BACKGROUND:

In 2016, Staff was approached by the developer, Mr. Frank Gangi, for a new development at 4201 Pennsylvania Ave. and the proposed twenty-eight (28) unit apartment building with new irrigation and fire services. California State Law and CVWD's Rules and Regulations state that each new residential unit requires a separate water meter. Hence, a new 8-inch water main, new fire hydrant, and twenty-nine (29) new water meters were required for the development, and the costs for design and installation of the new facilities were the responsibility of the owner. In August 2018, CVWD accepted the water easements for the 8-inch water main.

DISCUSSION:

Mr. Gangi (owner) entered into a developer's agreement with CVWD for the design, construction, and dedication of facilities to CVWD. The developer agreement stipulates that the Developer shall transfer ownership of all newly constructed facilities to CVWD. CVWD then assumes responsibility for maintaining these facilities into the future. The owner also submitted a Bill of Sale to CVWD establishing a base value for the donated facilities for depreciation purposes.

Staff worked with the owner on the design of the water main and new meters, and the owner hired a private contractor to perform the work. CVWD provided the materials such as steel pipe, fittings, fire hydrant and meters, as well as inspection services for the project. The construction was completed in late October 2019 and the water facilities constructed for the subject project were completed to the satisfaction of the District. In addition, the owner reimbursed the District for the cost of the materials and labor for plan review and inspection services.

RECOMMENDATION:

In accordance with CVWD's Rules and Regulations and the developer's agreement, it is the owner's responsibility to dedicate the water facilities to CVWD. The developer has completed the project, paid all necessary costs. It is staff's recommendation to adopt Resolution No. 763 to authorize the General Manager to accept the water facilities within CVWD's easement for Lot 1 of Tract 73651 located at 4201 Pennsylvania Ave.

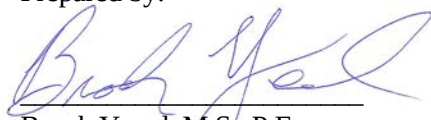
ENVIRONMENTAL REVIEW:

N/A

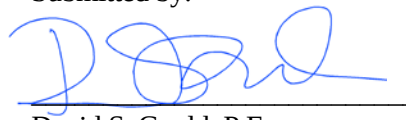
FUNDING AVAILABILITY:

N/A

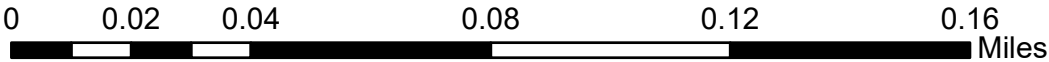
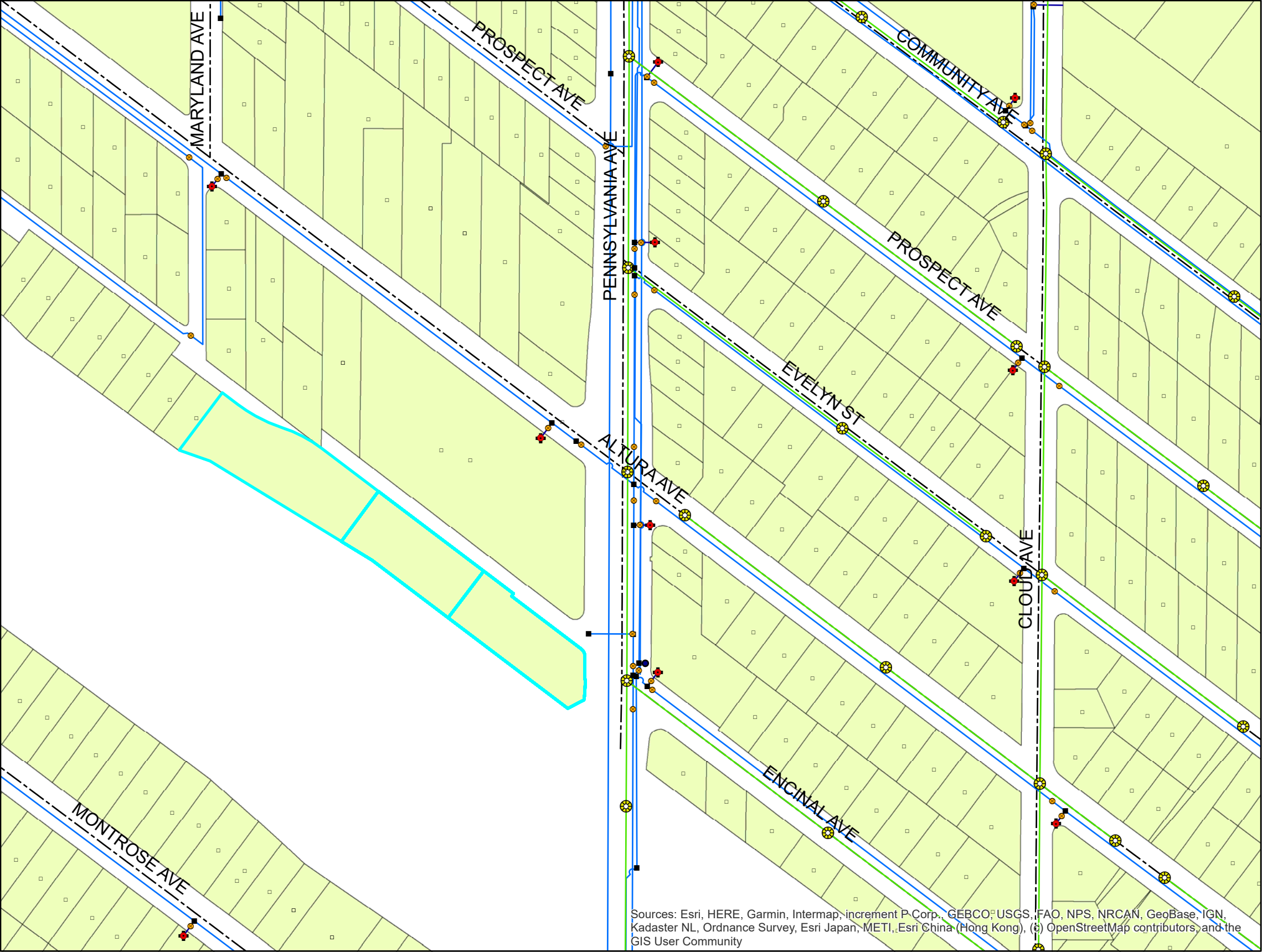
Prepared by:


Brook Yared, M.S., P.E.
Senior Engineer

Submitted by:


David S. Gould, P.E.
District Engineer

Attachments: 1 – Project Location Map
2 – Resolution 763
3 – Bill of Sale



Legend

wwell

wsvalve

wnetstr

wintert

whyd

wfitting

wcvalve

wbpstn

GIS_Services

SewerManholes

SewerGravityMains

Cleanoutst

LiftStations

wlatline

wmain

StreetCenterline.lyr

SewerEasements

Service_Area

LCF_Parcels_062519

Gledale_Parcels_062619

D-16-39: Project Location Map

Date: 11/5/2020

Attachment 2

RESOLUTION NO. 763

RESOLUTION OF THE BOARD OF DIRECTORS OF CRESCENTA VALLEY WATER DISTRICT ACCEPTING THE DONATION OF FACILITIES

WHEREAS, Crescenta Valley Water District (the “District”) entered into an Agreement with Vahe Derhartounian, (“Developer”), which provided for the construction by the Developer of certain water improvements (“Facilities”) for connection to the District’s system as part of the development for 4201 Pennsylvania Ave., (“Development”) within the District’s service area;

WHEREAS, the District, in order to accommodate the Developer’s construction of twenty-eight (28) new water meters and a new 8-inch water main for a new multi-family dwelling which required the construction of said water facilities;

WHEREAS, the water facilities have been completed in substantial conformance with the plans, specifications and Crescenta Valley Water District standards.

WHEREAS, the developer is required to donate these water facilities to the District;

WHEREAS, Developer has provided District with a deed, bill of sale, or other instrument of conveyance, conveying the Facilities from Developer to the District, as required by the agreement;

BE IT RESOLVED that, the Board of Directors of Crescenta Valley Water District hereby accepts the donation of the Facilities for operation, maintenance, and repair by the District, subject to all rights of the District.

PASSED, APPROVED, AND ADOPTED at a Regular Meeting of the Board of Directors of Crescenta Valley Water District held on November 10, 2020, Resolution No. 763 was adopted by the following vote:

AYES:

NOES:

ATTEST:

**President, Board of Directors
Crescenta Valley Water District**

**Secretary of the Board of Directors
Crescenta Valley Water District**

)

)

)

I, JAMES K. LEE, Secretary of the Crescenta Valley Water District, DO HEREBY CERTIFY that the foregoing is a full, true and correct copy of Resolution No. 763 of the Board of Directors of Crescenta Valley Water District adopted at a Regular Meeting held on November 10, 2020, and that the same has not been amended or repealed.

**Secretary of the Board of Directors of
Crescenta Valley Water District**

DATED: November 10, 2020

(S E A L)

Attachment 3

CRESCENTA VALLEY WATER DISTRICT

BILL OF SALE

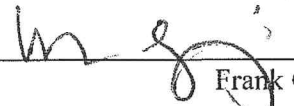
WATER SYSTEM FACILITIES

For good and valuable consideration, receipt of which is hereby acknowledged, the undersigned does hereby transfer and convey to Crescenta Valley Water District, a political sub-division of the State of California, and its successors and assigns, all right, title, and interest in and to the water main and structures constructed for 4201 Pennsylvania Ave. Said water main installation and construction located within the City of Glendale for the property described below, and further warrants that the same is free and clear of any encumbrances.

Said property is described as Lot 1 of Tract 73651 (4201 Pennsylvania Ave.)

Executed this 21 day of October, 20 20

Owner



Frank Gangi

CERTIFICATE OF ACCEPTANCE

As per Resolution No. 763 as set forth in the Minutes of a Meeting of the Board of Directors of the Crescenta Valley Water District held on November 10, 2020 the above Bill of Sale of Water System Facilities, dated October 21, 2020, is hereby accepted by order of the Board of Directors of the Crescenta Valley Water District, a political sub-division of the State of California.

Date of Acceptance _____.

CRESCENTA VALLEY WATER DISTRICT
COST OF CONSTRUCTION STATEMENT
WATER SYSTEM FACILITIES

Developer's Name Frank Gangi Address: 4201 Pennsylvania Ave.

Tract No. 73651 (Lot 1) Date Prepared 10/09/2020

<u>Item</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Total Cost</u>
Excavation and backfill (pipeline and appurtenances)	<u>900</u>	LF	<u>\$ 40</u>	<u>\$ 35,866</u>
Trench Resurfacing	<u>0</u>	SF	<u>\$ 0</u>	<u>\$ 0</u>
Install 8" CMC x CML Steel Water Main and Appurtenances	<u>640</u>	LF	<u>\$ 42</u>	<u>\$ 27,081</u>
1-inch Service Lateral Installation	<u>29</u>	EA	<u>\$ 136</u>	<u>\$ 3,948</u>
Install Meters and Appurtenances	<u>32</u>	EA	<u>\$ 0</u>	<u>\$ 0</u>
Pressure/Bacteriological Testing	<u>2</u>	LS	<u>\$ 3,820</u>	<u>\$ 4,670</u>
Grand Total Installation Cost*				<u>\$ 71,565</u>

*Excludes fees paid directly to Crescenta Valley Water District.

Prepared by Frank Gangi

My signature as witnessed here below atests that the above statement is true and correct to the best of my knowledge.

Date: 10/21/20



 Authorized Representative

President

 Official Title

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 3

November 10, 2020

To: Honorable President and Members of the Board of Directors
From: Brook Yared, M.S., P.E. – Senior Engineer
Subject: **Advertise for Bids - Water Main Replacement on the 3400-3500 Blocks of Encinal Ave, Project E-1021**

ACTION ITEM:

Water Main Replacement on the 3400-3500 Blocks of Encinal Ave., Project E-1021 Consideration and motion to authorize the General Manager to advertise for bids for the construction of approximately 1,660 lineal feet of pipeline replacement on the 3400-3500 Blocks of Encinal Ave. with an engineer's estimate of \$564,300 and to find said project exempt from the provisions of CEQA.

BACKGROUND:

With the new bond financing becoming available for CIP projects over the next three years, the District's goal is to replace at least one (1) mile of pipeline, that is 50 years or older, annually. This project was included as part of the annual pipeline replacement projects within the FY 20/21 CIP budget. Currently, the existing pipeline on the 3400-3500 blocks of Encinal Ave. is 10-inch diameter steel pipe and was constructed in the 1930s. This pipeline has been in use well beyond its expected life, and the pipeline operates at a very high pressure making the risk associated with a main break much higher. In addition, the water service laterals on the 3300 block of Encinal Ave. have experienced a series of very costly leaks due to poor workmanship and materials, as well as the elevated pressure in the area. Staff is planning to replace the older laterals that have not already been replaced as part of this project. The total amount of pipeline to be replaced will be 1,660 linear feet representing about 30% of the pipeline planned to be replaced this year.

DISCUSSION:

Staff and Civiltec Engineering have completed the design of the project, and plans have been submitted to the City of Glendale for permit approval. Staff anticipates receiving permit approval prior to the bid opening date.

The anticipated project schedule is as follows:

- 11/10/20 – Advertise for Bids
- 12/02/20 – Pre-Bid Meeting
- 12/16/20 – Bid Opening
- 1/12/20 – Award Contract
- February 2021 to April 2021 – Construction

Ms. Christina Olmedo will be the project manager, and construction management services will be selected at a later date to provide field coordination and inspection. The construction cost estimate for the project is \$564,300, and the entire project costs including materials, soils engineering, proposal advertising, staff engineering, inspection services, and contingencies are estimated at \$786,500.

RECOMMENDATION:

It is staff's recommendation to authorize the General Manager to advertise for bids for the project. Staff will advertise the project in the McGraw-Hill Dodge Construction News and will send out plans to selected contractors.

ENVIRONMENTAL REVIEW:

This project is exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the CEQA Guidelines. This exemption covers the repair of existing facilities involving negligible or no expansion of existing use.

FUNDING AVAILABILITY:

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

Account Description	Amount
FY 19/20 Water CIP– Water Distribution – Annual Pipeline Replacement	\$2,300,000
E-1008/1019 – 2400-2500 Blocks of Janet Lee and 4300 Block of Rosemont	<\$872,600>
E-1021 – 3400-3500 Blocks of Encinal Ave.	<\$564,300>
E-1021 - Additional costs such as material purchase by CVWD, soils engineer, engineering & inspection services costs & contingency	< <u>\$222,200</u> >
Total Cost Estimate	<\$786,500>
Amount Remaining in Water CIP – Distribution System – Annual Pipeline Replacement	\$640,900

Prepared by:



Christina Olmedo
Assistant Engineer

Attachments:

1. Project Location Map

Submitted by:



Brook Yared, M.S., P.E.
Senior Engineer

Attachment



Legend

— Pipeline to Replace

Replacement Segment ID

ID: Length, Year Inst., Material

153: 880ft, 1932, STD

154: 780ft, 1932, STD

Existing System

Tanks

Pump Stations

Wells

Valves

— Active Mains

Project 3 Replacement

Total Length: 1,660 ft

PRELIMINARY

Year 1 - FY 20/21

Project 3

Pipeline Replacement
Schedule

Crescenta Valley Water District



CRESCENTA VALLEY WATER DISTRICT

General Manager Report

GM Report

November 10, 2020

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:

- CVWD Blood Drive
- CVWD Canned Food Drive
- Fall Festivities – Chili Cookoff and Pumpkin Race
- Oak Creek Emergency Repairs
- Water Production, Hydrology Report, Engineering Projects, Operational Activities
- CVWD Presentation at AWWA Virtual Conference

STAFFING

2 employees have work anniversaries in November. Alex Sandoval – 21 years, Adam Sutphin – 1 year.

As of November 5th, the District has gone 352 days without a lost time accident.

GENERAL MANAGER ACTIVITIES

Meetings:

Leadership Development Meeting	- November 3 rd
General Manager 1-on-1 Meetings with all staff	- November 2 nd - November 23 rd
CVWD LHMP Steering Committee Meeting	- November 5 th
CVWD LHMP Core Planning Meeting	- November 5 th
Management Staff Meetings	- November 2 nd , November 9 th

Submitted by:



Nem Ochoa
General Manager

Engineering and Operations

November 10, 2020

Staff Report

To: Honorable President and Members of the Board of Directors

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

Subject: Engineering & Operations – October 2020

1. Water Production Report

- October 1 – 31 – Water production – 45%/55% split – 128.0 MG for the month
- Average use – 1.7% greater than 2019 and 11.6% greater than 5-yr average
- WY 19/20 End – GW production = 1972 ac-ft; 14% increase from WY 18/19 = 1724 ac-ft

2. Rainfall Update

- 0.00” for October 2020
- Rainfall Total for Rainfall Year 2020/21 – 0.00”

3. Report on Engineering

- **CIP Projects**
 - Pipeline Replacement – 4300 Block of Rosemont – Tentative construction start 11/30/20
 - Pipeline Replacement – Project 3 Advertise for Bid & Project 4 – Final Design
 - Ramsdell Mixing Station/Pressure Reducing Station – Under Design
 - Rosemont Reservoir Rehabilitation – Construction starts 11/16/20
 - Emergency Generator at Sewer Lift Station – Final Design
 - SCADA Radio Communications Network – Completed field investigation
 - Oak Creek Reservoir – Replace 16-inch manifold and valves – Completed 11/5/20
 - Paschall – Booster B – FMWD performing valve replacement, 11/10/2020
- **Grant Program**
 - Local Hazard Mitigation Plan
 - Hazard Mitigation Planning Steering Committee – 1st mtg. - 10/28/20
- **Water Meter Replacement Program**
 - Replaced 258 meters through October 2020
 - AMI Communications Network
 - Esource and Aqua-Metric – Kickoff meeting 11/4/20

4. Report on Administrative and Field Operations

- Wells Status – Well production capacity steady at 2.0 mgd

5. Developer Projects

- 4520 Montrose – New 6 Units– Pending – Reconciliation
- 4201 Pennsylvania – Pending –Transfer of ownership
- 2314 Montrose – New 5 Units – Estimating & contracting
- Waiting on Developer
 - 4521 Briggs/2413 Foothill – New 70 Units
 - 3900 Park Place – New 28 Units
 - 2341 Mira Vista – New 6 Units
 - 2345 Mira Vista – New 4 Units
 - 1961 Waltonia – New 6 Units

6. FMWD – Replacing 16” valve at Paschall Booster Station

7. Street Projects

- Verdugo Paving Project – City of Glendale – No Report

8. **Field Maintenance & Operations – October 1, 2020 – October 31, 2020**

- **Water Lateral Leaks & Repairs**
3051 Evelyn 4520 Rosemont 3314 Mary
3227 Prospect 2002 Manistee
- **Large Water Meter Replacement**
 - No Report
- **Developer Jobs**
- **Water Main Leaks**
 - 2700 Block of Montrose – 10” Main
 - 3800 Block of Ocean View – 5” Main
- **Valve Replacement**
 - No Report
- **Fire Hydrant Replacement**
 - 2643 Mayfield
- **Booster Pump Maintenance**
 - No Report
- **Reservoir Maintenance**
 - No Report
- **Sewer Maintenance – October 1, 2020 – October 31, 2020**
 - Sewer Cleaning – 2800 Pineglen, 5400 & 5000 Pinecone, 2900 – 3000 Hopeton, 3000 Cloudcrest, 2900 – 3000 Highridge, 3000 Markridge, 2900 Hawkridge, 2800 Willowhaven, 2900 Mountain Pine
 - Removed pool plaster inside 8” sewer main at Hawkridge & Pinecone
 - Sewer Interceptor – Replaced 3 manhole frames and covers
- **Sewer Lift Station**
 - Continued maintenance
- **Training**
 - Valve turning equipment, Sewer cleaning, Backhoe and Front-End Loader
- **Meter Box Replacement**
 - No Report
- **Valve Exercising Program**
 - Valve exercising on Valve Book Page #14
- **Utility Potholing**
 - Potholing utility crossings for pipeline project on the 3400/3500 Blocks of Encinal

CRESCENTA VALLEY WATER DISTRICT

WATER PRODUCTION REPORT

October 1 - October 31, 2020

Well Production:	50,770,400	Gals		
GWP Production:	5,756,000	Gals		
Gravity Production:	1,306,753	Gals	% GW	45%
Purchased Water:				
FMWD:	70,120,403	Gals		
City of Glendale:	0	Gals	% Import	55%
TOTAL:	127,953,556	Gals		
	392.68	ac-ft		

Glenwood Nitrate Water

Reclamation Plant:*

0

*Included in Well Production

WATER DEMAND COMPARISON

Time Period	Average Daily Usage (gals)	Current Period Change
October 1 - October 31, 2020	4,115,736	
October 1 - October 31, 2019	4,048,318	1.7%
5-yr Average - October 2015 - 2019	3,686,493	11.6%

RAINFALL: October 1 - October 31, 2020

0.00"

Season-To-Date:

0.00"

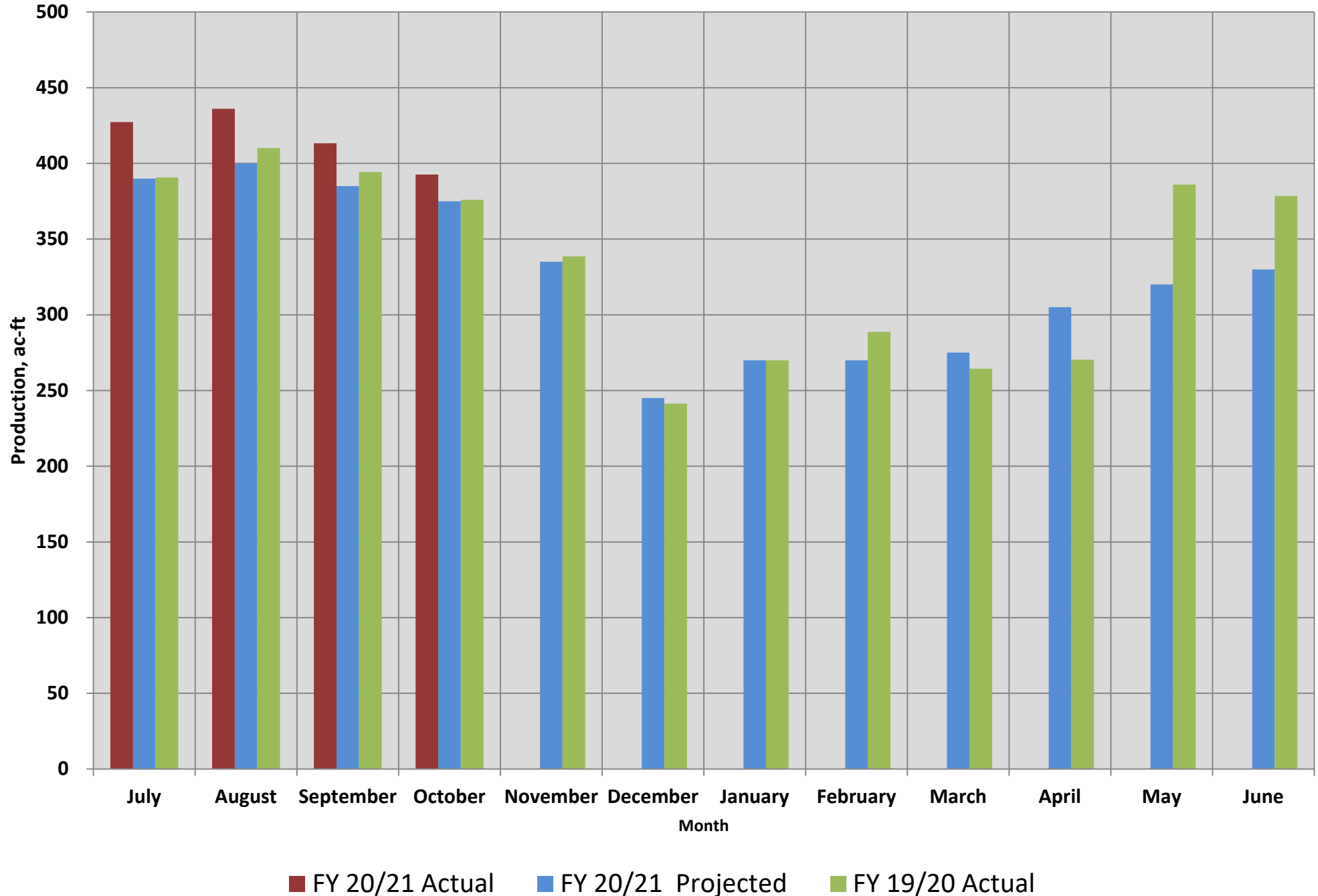
2020/21 Fiscal Year Water Production			WY 20/21 - Groundwater Production Water Rights		GWP (Well 16) Water Production - 2020		Purchased Water Production Tier 2 Allocation - 2020	
Month	Actual Total Water Production (ac-ft)	Projected Total Water Production (ac-ft)	Month	Month	Month	Well Production (ac-ft)	Month	Imported Water Production (ac-ft)
July	427	390	October	160	January	0	January	102
August	436	400	November		February	1	February	130
September	413	385	December		March	0	March	102
October	393	375	January		April	7	April	111
November		335	February		May	17	May	205
December		245	March		June	14	June	204
January		270	April		July	16	July	243
February		270	May		August	18	August	243
March		275	June		September	17	September	232
April		305	July		October	18	October	215
May		320	August		November		November	
June		330	September		December		December	
Total to Date	1,669	1,550	Total to Date	160	Total to Date	108	Total to Date	1,786
Projected	4,019	3,900	Water Rights	3,294			Tier 2	2,154
% of Projected	42.8%	39.7%	% of Rights	5%			% of Allocation	83%
Remaining	2,231	2,350	Remaining	3,134			Remaining	368

NOTE:

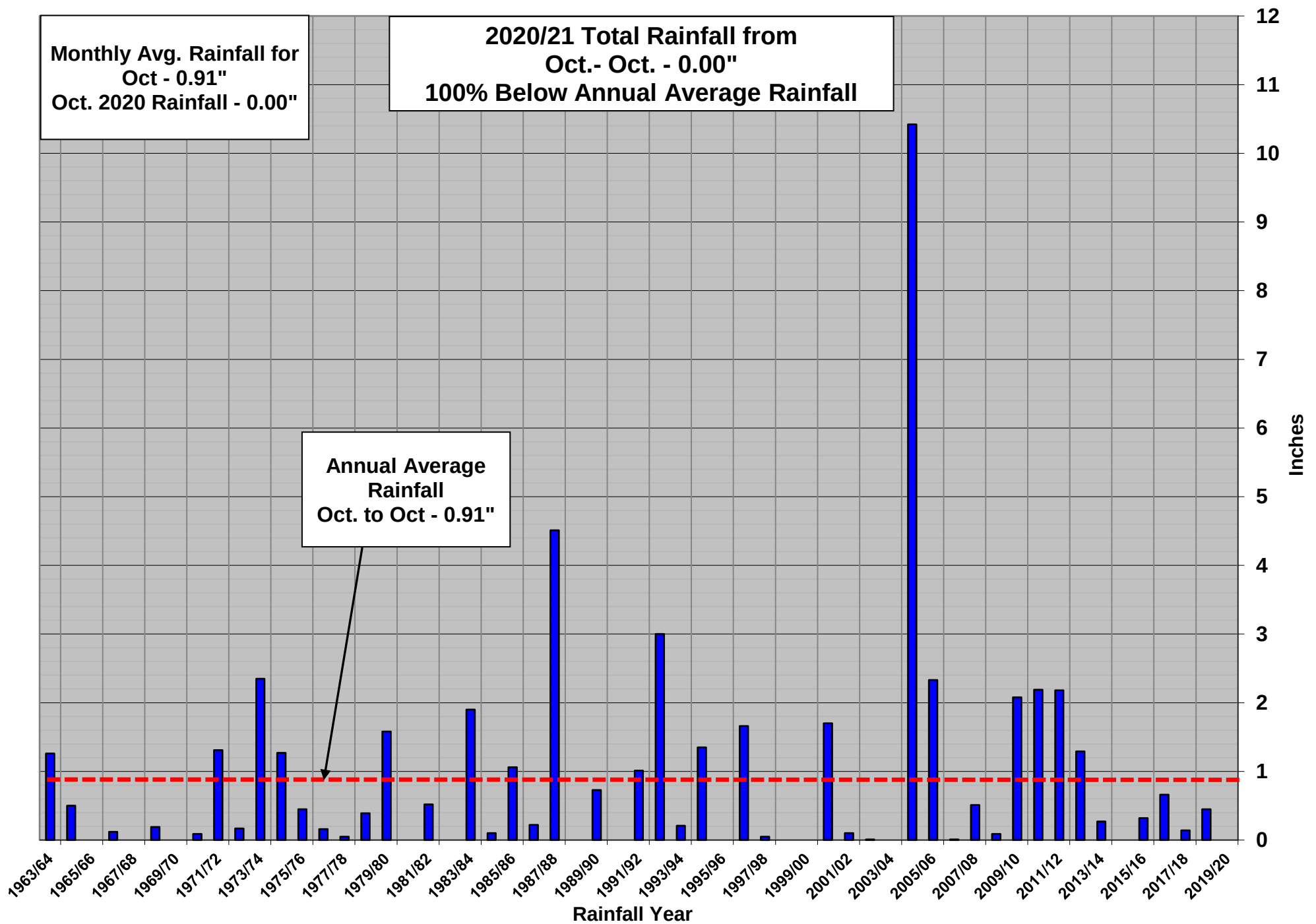
1) Blue Numbers = Estimated Water Production

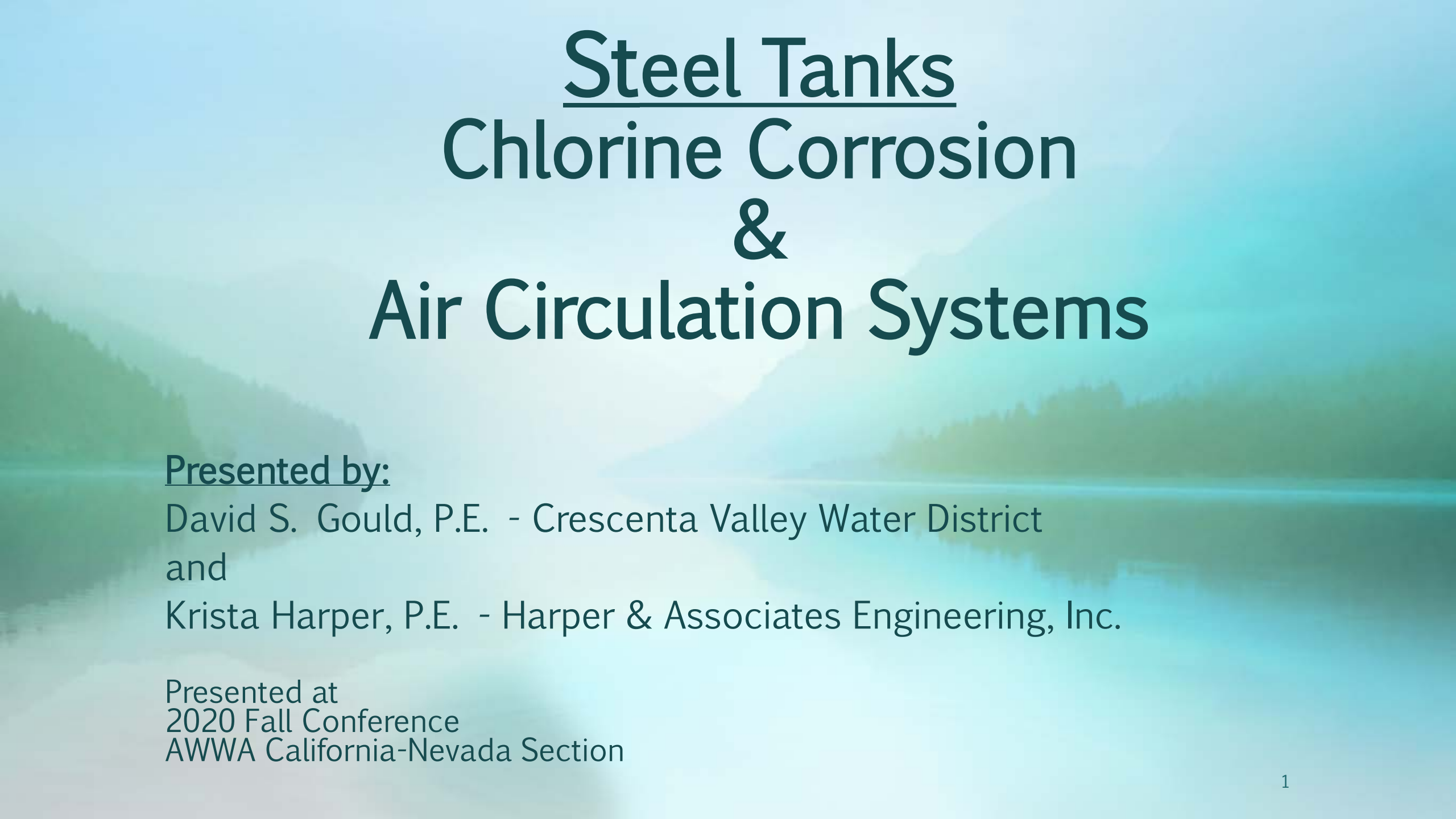
Monthly Water Production:

FY 20/21 Actual, FY 20/21 Projected & FY 19/20 Actual



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



The background of the slide is a scenic photograph of a calm lake reflecting the surrounding misty, forested mountains. The water is still, creating a clear mirror image of the landscape above. The overall color palette is soft and natural, with greens, blues, and greys.

Steel Tanks Chlorine Corrosion & Air Circulation Systems

Presented by:

David S. Gould, P.E. - Crescenta Valley Water District
and

Krista Harper, P.E. - Harper & Associates Engineering, Inc.

Presented at
2020 Fall Conference
AWWA California-Nevada Section

Background



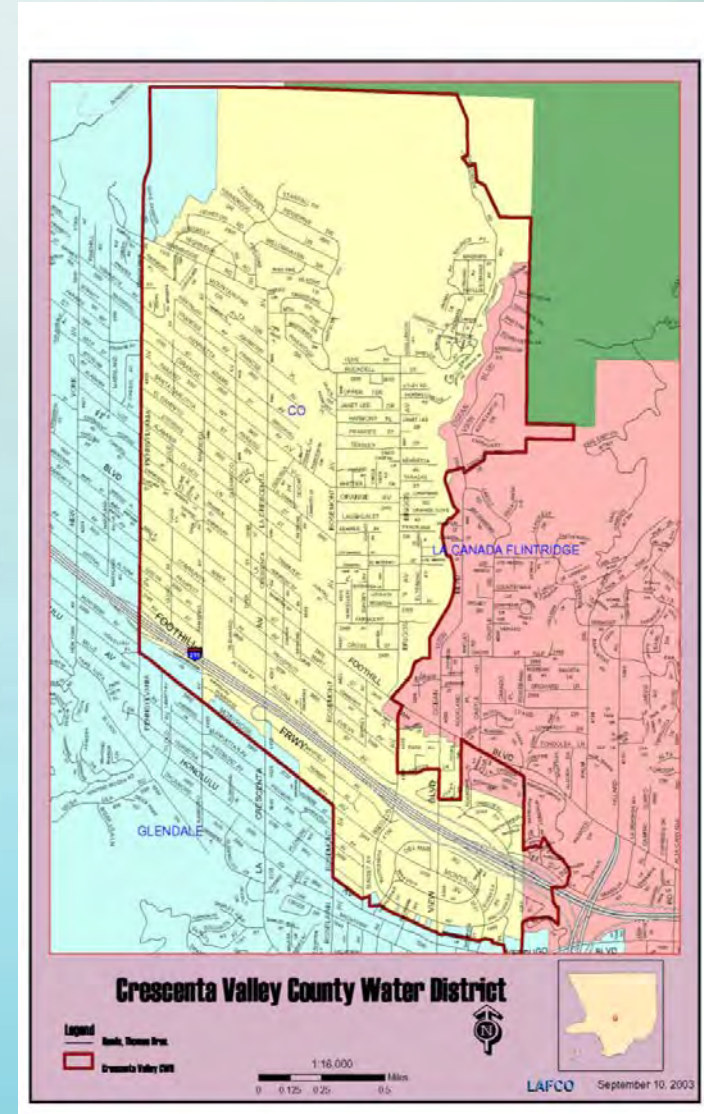
CVWD formed in 1950 as “County” Water District

- Provides water & sewer service to 32,000 residents with 8,000 connections
- Serves La Crescenta & portions of La Canada Flintridge, Glendale & Montrose
- 14 Steel & 3 Concrete Reservoirs – 17.5 MG Storage
- 95 miles pipelines
- 11 Pressure Zones



Harper & Associates Engineering, Inc.
(HAE)

- Over 40 years experience in steel reservoir coatings systems



The Chlorine Vapor Discovery

- HAE had seen an increase in general corrosion developing in the vapor zone of some CVWD reservoirs at an accelerated rate between 2004 and 2011.
- Crescenta Valley Water District
 - o Markridge Reservoir
 - 1997 - Recoated interior with an epoxy coating system
 - 1998 - Warranty inspection – Good
 - 2004 – Severe General Corrosion on all surfaces above the high-water level after 6 years
 - o Markridge Reservoir
 - Recoated in 2006
 - Increased number & size of vents
 - Observed general corrosion at the 1-year warranty inspection

The Chlorine Vapor Discovery

HAE reported that it had not seen this type of failure in such a short period of time and started to investigate the cause of the accelerated corrosion.

- Was it an Application Error?
 - o Was there enough thickness of coating or Mils thickness?
 - o Observed same Contractor perform work at five different reservoirs during the same period
- Was it Material Failure?
 - o Same coating system used at various reservoirs
- Was it poor ventilation or air circulation?
- Chlorine Vapor
 - o Cloud of Chlorine Vapor from off gassing of chlorine from water

The Chlorine Vapor Discovery

Case Study: Oak Creek Reservoirs

- Two (2) 1.6 MG steel tanks, partially buried, installed 1961
- 2001 – Recoated with an epoxy interior coating system
- 2005 – Started to see significant general corrosion on the interior roof and rafters above the high-water level.
- 2011 – Severe general corrosion on all surfaces above the high-water level
- 2016 – Advanced corrosion



Oak Creek No. 1 Reservoir - 2005



Oak Creek No. 2 Reservoir - 2005

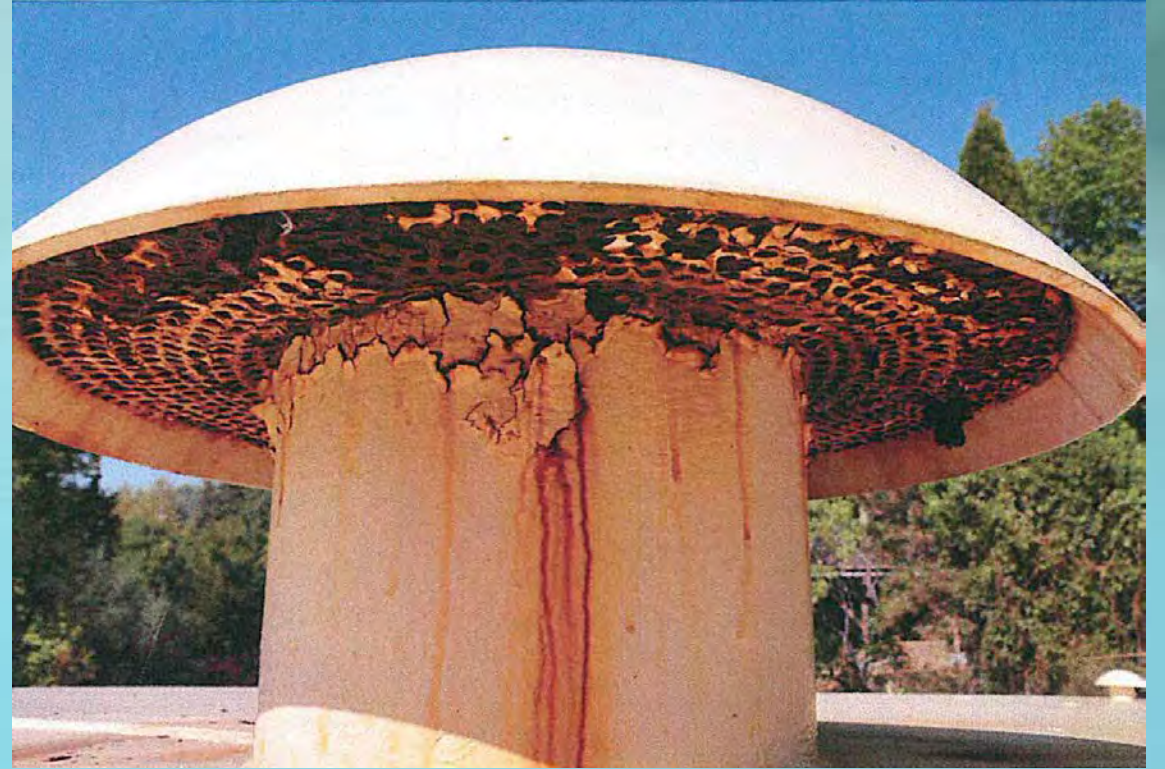


Oak Creek No. 1 under roof - 2011

Oak Creek Reservoir - 2011

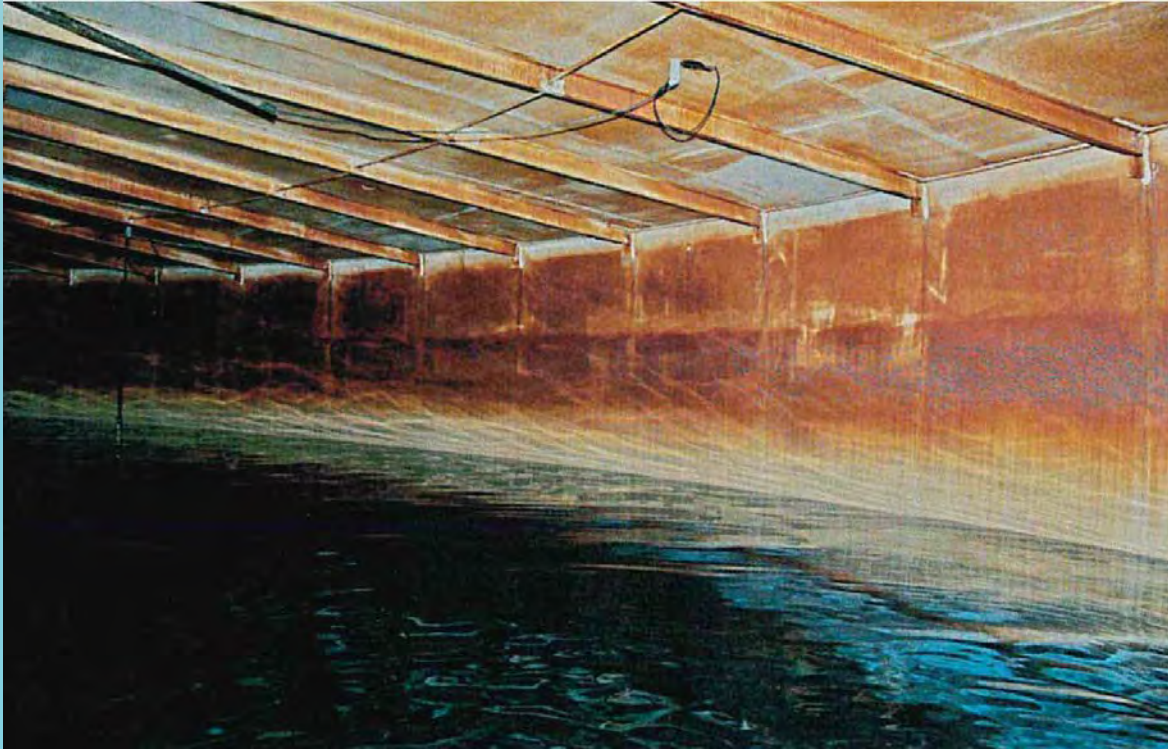


Oak Creek No. 1 – Interior Roof



Oak Creek No. 1 – Vent

Oak Creek Reservoir - 2016



Oak Creek No. 2 – Interior



Oak Creek No. 2 – Vent

The Chlorine Vapor Discovery

Investigation:

- Verified Mil Thicknesses at Oak Creek Reservoirs
- Laboratory Testing of Interior Coating Samples
 - o Chlorine vapor permeated into the coating
 - o Discovered higher % of chlorine in lower portion of vapor cloud
 - o In areas of poor coating condition saw higher % chlorine
- Discussed with Manufacturer - input & recommendation



Coupon coated with 100% solids epoxy
installed in 2011

The Chlorine Vapor Discovery

- Investigation by CVWD
 - Change water levels at reservoirs
 - o Lower water level – observed corrosion
 - o Higher water level – no corrosion
 - Chlorine Residual Levels - No difference
 - Temperature – Higher temperature (summer)
 - Water turnover – No difference

The Chlorine Vapor Discovery

CVWD performed Independent Testing in 2009

- Sampling Methodology
 - o Water Quality Sampling
 - o Corrosion and Condensate Sampling
 - o Air Sampling
- Results
 - o Not a water quality issue
 - o Higher chlorine levels found in Oak Creek verses other reservoirs
 - o Higher chlorine found at roof vents
 - o Temperature – Testing in winter/spring

Solution – Oak Creek

- Re-coat interior of both Reservoirs
 - o 100% Solids Epoxy Interior Coating System
- Increased Ventilation
 - o Added five (5) more roof vents
- Installation of Solar Powered Fans
 - o Increase air circulation inside reservoir to reduce chlorine level.

Solution – Oak Creek

- Oak Creek #1
 - o Completed in May 2018
 - o One-year Warranty Inspection – May 2020
- Oak Creek #2
 - o Completed June 2019
 - o One-year Warranty Inspection – May 2020

Oak Creek Reservoir - 2020



Oak Creek No. 1 – Interior
After 2 years



Oak Creek No. 1 – Interior
After 2 years

Oak Creek Reservoir - 2020



Oak Creek No. 2 – Interior
After 1 year



Oak Creek No. 2 – Interior
After 1 year

Oak Creek Reservoir - 2020

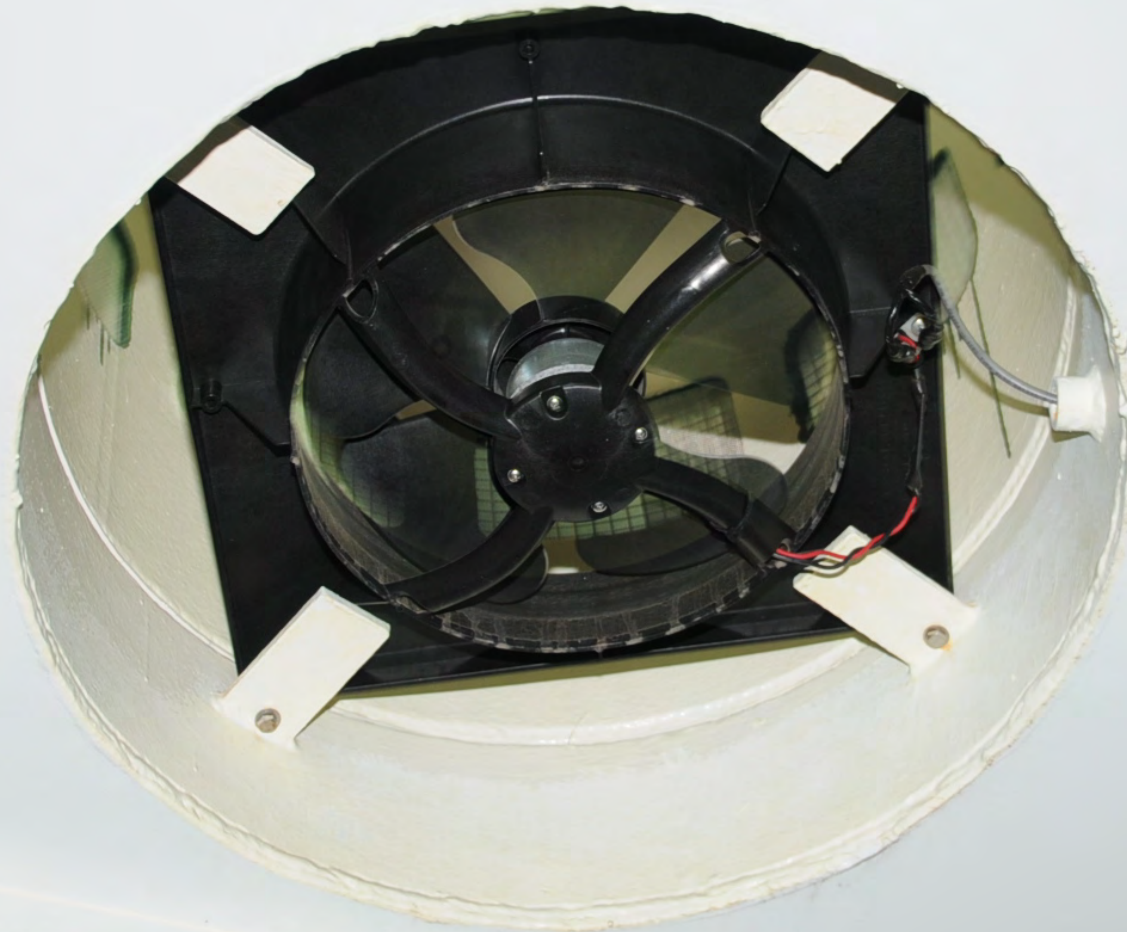


Oak Creek No. 1 & No. 2 – Exterior
Solar Power Roof Fans



Oak Creek No. 1 – Interior Solar Power
Roof Fan

Close up - Vent Fans



Results

- Appears the short-term results are good
 - o Need to inspect again in 2 years (2022)
- Will the new coating system & fans work for 20 to 25-year life expectancy of coating system?
 - o Need to keep monitoring 100% solids epoxy coating system
 - o Maintain 2-year inspections
- Stay tuned for more results



QUESTIONS



Contact:

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