

MINUTES OF THE REGULAR MEETING OF THE
BOARD OF DIRECTORS OF
VISTA IRRIGATION DISTRICT

November 3, 2021

A Regular Meeting of the Board of Directors of Vista Irrigation District was held on Wednesday, November 3, 2021 at the offices of the District, 1391 Engineer Street, Vista, California.

1. CALL TO ORDER

President Sanchez called the meeting to order at 9:01 a.m.

2. ROLL CALL

Directors present: Miller, Vásquez, Dorey, Sanchez, and MacKenzie.

Directors absent: None.

Staff present: Brett Hodgkiss, General Manager; Lisa Soto, Secretary of the Board; Don Smith, Director of Water Resources; Randy Whitmann, Director of Engineering; Frank Wolinski, Director of Operations and Field Services; Mark Saltz, Water Resources Specialist; Shallako Goodrick, Finance Supervisor; Marlene Kelleher, Director of Administration; and Ramae Ogilvie, Administrative Assistant. Interim General Counsel Jennifer Farrell was also present.

Other attendees: None.

3. PLEDGE OF ALLEGIANCE

President Sanchez led the pledge of allegiance.

4. APPROVAL OF AGENDA

21-11-118	<i>Upon motion by Director MacKenzie, seconded by Director Miller and unanimously carried (5 ayes: Miller, Vásquez, Dorey, MacKenzie, and Sanchez), the Board of Directors approved the agenda as presented.</i>
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5. ORAL COMMUNICATIONS

No public comments were presented on items not appearing on the agenda.

6. CONSENT CALENDAR

21-11-119	<i>Upon motion by Director MacKenzie, seconded by Director Vásquez and unanimously carried (5 ayes: Miller, Vásquez, Dorey, MacKenzie, and Sanchez), the Board of Directors approved the Consent Calendar, including Resolution No. 21-40 approving disbursements.</i>
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A. Grants of Right of Way

See staff reports attached hereto.

1. Staff recommended and the Board accepted Grant of Right of Way (N70) for a specific easement from Sahar Naeemi Noroleh to Vista Irrigation District (District) and Vallecitos Water District (Vallecitos) over a 15-lot single-family residential development known as 1217 Nordahl Road, consisting of approximately 3.8 acres, located at 1217 Nordahl Road within an unincorporated area between the City of Escondido and City of San Marcos (LN 2015-009; APN 226-290-01; DIV NO 5).

2. Staff recommended and the Board accepted Grant of Right of Way (N71) for a specific easement from Sahar Naeemi Noroleh to Vista Irrigation District over a 15-lot single-family residential development known as 1217 Nordahl Road, consisting of approximately 3.8 acres, located at 1217 Nordahl Road within an unincorporated area between the City of Escondido and City of San Marcos (LN 2015-009; APN 226-290-01; DIV NO 5).

B. Minutes of Board of Directors meeting on October 20, 2021

The minutes of October 20, 2021 were approved as presented.

C. Resolution ratifying check disbursements

RESOLUTION NO. 21-40

BE IT RESOLVED, that the Board of Directors of Vista Irrigation District does hereby approve checks numbered 67924 through 68019 drawn on Union Bank totaling \$408,728.23.

FURTHER RESOLVED that the Board of Directors does hereby authorize the execution of the checks by the appropriate officers of the District.

PASSED AND ADOPTED unanimously by a roll call vote of the Board of Directors of Vista Irrigation District this 3rd day of November 2021.

7. DISTRICT FEES AND CHARGES OTHER THAN WATER RATES

See staff report attached hereto.

Director of Administration Marlene Kelleher stated that each year the District reviews its fees and charges other than water rates to ensure that they accurately reflect the cost associated with providing services; to that end, revisions are proposed to the fees and charges to properly account for changes in the cost of materials, labor and contracted services. Additionally, every other year, staff performs in-depth time and motion studies related to the services being provided, which was done this year; the results of the time and motion studies have been incorporated into the proposed changes to the fees and charges. Ms. Kelleher provided a brief summary of the proposed revisions.

Ms. Kelleher stated that the “Late Fee”, which is the District’s most commonly charged fee, is not proposed to change. She pointed out a proposed increase in the capacity fee, which she stated was primarily attributable to the increased cost of replacing the nearly 100-year-old Vista flume. Director of Engineering Randy Whitmann provided clarification regarding Annexation and Detachment fees.

President Sanchez opened the Public Hearing at 9:13 a.m. It was noted that there were no members of the public in attendance physically nor virtually, and that no comments were received from members of the public prior to the public hearing. Mr. Hodgkiss stated that the Notice of Public Hearing was duly published in the local newspaper. He said that the Building Industry Association (BIA) was notified of the proposed increases and decreases to fees and charges 14 days in advance of the public hearing and was sent the agenda and the staff report with attachments, including the Proposed Fee Summary; no comments were received from the BIA. Mr. Hodgkiss stated that, once adopted, staff would notify developers with current projects of the impending fee increases to afford them the opportunity to pay the fees prior to the increase effective on January 1, 2022. President Sanchez closed the public hearing at 9:14 a.m.

21-11-120 *Upon motion by Director MacKenzie, seconded by Director Miler, the Board of Directors adopted Resolution 21-41 revising the Rules and Regulations of the District to incorporate increases and decreases to fees and charges other than water rates, by the following roll call vote:*

AYES: Directors Miller, Vásquez, Dorey, MacKenzie, and Sanchez
NOES: None
ABSTAIN: None
ABSENT: None

A copy of Resolution 21-41 is on file in the official Resolution Book of the District.

Mr. Hodgkiss commented that additional work was done this year on the advice of legal counsel to create a clear administrative record. He thanked Ms. Kelleher, Finance Supervisor Shallako Goodrick and other staff for their hard work in reviewing and updating the fees and charges of the District.

8. DIVISION REPORTS

See staff report attached hereto.

Mr. Hodgkiss provided clarification regarding the application submitted to the State Water Resources Control Board (State Board) for the California Water and Wastewater Arrearages Payment Program for outstanding customer balances for the period March 4, 2020 through June 15, 2021 in the amount of \$154,314 (\$149,820 for arrearages and \$4,494 for administration). He stated that he received notification that the application was received, and the State Board had begun processing the application. Ms. Kelleher stated that the \$149,820 represents arrearages for 182 residential and 10 commercial customers.

Director of Water Resources Don Smith updated the Board regarding the sampling performed for Harmful Algal Blooms (HABs) in Lake Henshaw on September 27 and on October 4, 12 and 18. He stated that the results for microcystin and anatoxin-a have been in the “Caution” advisory range; consequently, Henshaw releases continue to be suspended. Mr. Smith stated that staff has participated in a workshop to discuss long-term alternatives to manage HABs at Lake Henshaw and Lake Wohlford. He stated that a team from University of California Merced has analyzed samples of sediment from Lake Henshaw to determine the predominant cause of the HABs and determined that it stems from nutrient loading from the sediment at the bottom of the lake. Mr. Smith briefly discussed some possible long-term strategies for addressing HABs and stated that a full presentation on said strategies would be provided at a future Board meeting.

9. WATER RATE STRUCTURE AND WATER RATES

See staff report attached hereto.

Ms. Kelleher stated that the Board last discussed water rate structures and water rates as an informational item at its September 22, 2021 Board meeting, and staff has since refined and added alternatives for potential water rate structures and associated water rates for consideration by the Board. She stated that rate studies were presented to the Board in 2009, at which time the District's portion of the water rate was increased, and in 2013 and 2017 when the Rate Adjustment Policy was reaffirmed. Ms. Kelleher noted that since 2009 the District has experienced a decrease in water sales of approximately 26 percent, which has affected the District's revenues and reserves.

Ms. Kelleher stated that, in compliance with Proposition (Prop) 218, staff conducted an in-depth analysis to ensure the District's rates recover costs associated with providing water service to each customer. The analysis examined the District's operating and capital improvement costs through Fiscal Year (FY) 2027. She stated that based on the results of this analysis staff has developed three potential water rate structures for the Board to consider.

Using a PowerPoint presentation (attached hereto as Exhibit A), Ms. Kelleher stated that, without any adjustments to water rates, five-year projections show that the District will need to use over \$16 million of its Capital Improvement Reserves (CIR) to cover infrastructure project costs, leaving a balance of just \$4 million in the CIR at the close of FY 2027. Ms. Kelleher stated that in the "New Tiers" alternative the current tiers are adjusted to reflect the current average water use of a typical customer with a 3/4-inch meter. In the "New Tiers" alternative, Tier 3, which was developed in 2009 to recover any penalties that the District would incur from the San Diego County Water Authority for not meeting its mandatory water-use reduction target, would be charged at the Tier 2 rate. She further noted that because the average monthly water use has declined since 2009 staff is proposing to decrease the monthly Tier 1 allotment from 10 to six units per month for a 3/4-inch meter, and anything over six units monthly (or 12 units bi-monthly) would be billed at the Tier 2 rate.

Mr. Kelleher said that in the "Current Tiers" alternative the current tiers would remain unchanged with the Tier 1 remaining at 10 units for customers with 3/4-inch meters. A higher rate increase would be applied to Tiers 2 and 3 in this alternative. She said that in the third alternative, titled "Flat Rate", all water consumed would be charged at the same rate.

The Board discussed the potential for future mandatory water use cutbacks, and how they might affect the three alternatives being considered. The Board agreed that the potential for mandatory reductions is unknown at this time and that any rate alternative adopted in January 2022 may need to be revisited later in the year if mandatory reductions are put in place.

The Board discussed the different water rate alternatives. Director Vásquez stated that he believed cutting the Tier 1 allocation in the "New Tiers" alternatives from 10 units to six units per month would adversely affect the modest residential water user, many of whom reside in his Division. He stated that for this reason he could not support the "New Tiers" alternative. Director Miller stated a preference for the "New Tiers" alternative because it would place the smallest burden on the low water user. The consensus of the Board was that the "New Tiers" alternative was the fairest and most balanced.

The Board expressed concern about the increased financial burden on District ratepayers but all members were in agreement that providing funding for the District’s capital improvement plan through FY 2027 was the fiscally responsible thing to do.

21-11-121 *Upon motion by Director Miller, seconded by Director Dorey and unanimously carried (4 ayes: Miller, Dorey, MacKenzie, and Sanchez; 1 no: Vásquez), the Board of Directors directed staff to go forward with the “New Tiers” option for a Prop 218 Hearing on January 19, 2022.*

President Sanchez thanked staff for its hard work on this item. Mr. Hodgkiss thanked the Fiscal Policy Committee for its thorough review and feedback on matter, and he thanked Ms. Kelleher, Finance Supervisor Shallako Goodrick and other staff involved for their hard work.

The following agenda item was taken out of sequence to accommodate Director Miller, who had to leave early due to a scheduling conflict.

12. MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

See staff report attached hereto.

Director Miller reported on the October 28, 2021 meeting of the San Diego County Water Authority (Water Authority) Board of Directors. He stated that the Board approved the distribution of \$35+ million paid by the Metropolitan Water District of Southern California (MWD) as damages and interest for its breach of the parties’ Exchange Agreement for the years 2015-2017 to its member agencies; the District’s pro-rata share of the award would be \$1.2+ million. Director Miller reported on other business conducted by the Water Authority Board, including the adoption of positions on various bills, implementation of financial third-party reviews and financial reporting, the execution of two 36-month contracts for Sacramento advocacy services, and the adoption of an energy management policy.

Mr. Hodgkiss reported that Director Miller’s appointment as an MWD delegate was confirmed at the October 28 Water Authority Board meeting. The Board congratulated Director Miller on his appointment and subsequent confirmation.

10. POWER PURCHASE AGREEMENT

See staff report attached hereto.

Mr. Smith provided background regarding the District’s experience with power purchase agreements and the status of the market at the present time. He discussed the volatility of the market and the fact that power providers are typically only able to honor quoted rates for long-term power purchase agreement for a 24-hour period. He stated that final pricing for November 3, 2021 was provided for the Directors at the dais (attached hereto as Exhibit B). The Board discussed briefly and took the following action:

21-11-122 *Upon motion by Director Miller, seconded by Director MacKenzie and unanimously carried (5 ayes: Miller, Vásquez, Dorey, MacKenzie, and Sanchez), the Board of Directors authorized the General Manager to enter into a multi-year power purchase agreement with Direct Energy for the purchase of electrical power, delivered by San Diego Gas & Electric (SDG&E), on the District’s eligible electrical power meters.*

Director Miller left the meeting at this time.

11. DESIGNATION OF VOTING PROXY FOR ASSOCIATION OF CALIFORNIA WATER AGENCIES ELECTION

See staff report attached hereto.

The Board discussed this matter briefly and noted that the Board's past practice has been to designate the Board President as the District's voting delegate, provided he or she would be in attendance at the Association of California Water Agencies (ACWA) Conference in which the vote would take place. It was noted that this year ACWA has also requested the designation of an alternate voting delegate. The consensus of the Board was to designate the First Vice President as the alternate voting delegate.

21-11-123 *Upon motion by Director MacKenzie, seconded by Director Dorey and unanimously carried (4 ayes: Vásquez, Dorey, MacKenzie, and Sanchez; and 1 absent: Miller), the Board of Directors designated President Sanchez as voting delegate and Director Miller as alternate voting delegate to vote in the election for ACWA President and Vice President.*

The Board recommended that President Sanchez (or Director Miller as Alternate) cast the District's vote for the two candidates the Board has already provided resolutions of support for: Pam Tobin as ACWA President and Cathy Green as ACWA Vice President.

13. MEETINGS AND EVENTS

See staff report attached hereto.

Director Dorey reported on his attendance at the annual meeting of the Southern California Water Coalition where the keynote speaker was Senator Henry Stern (D-Los Angeles, 27th District), Chair of the Committee on Water and Natural Resources, whose speech urged attendees to think big to tackle California's water challenges. Director Dorey reported that the Harriett M. Wieder and the Kathy Cole Awards were presented to Ronald Gastelum and Christine Compton, respectively.

Director MacKenzie reported on her attendance at meetings of the California Special Districts Association (CSDA) and the ACWA Legislative committees; both meetings included recaps of the legislation supported or opposed by the respective committees during 2021 and the status of the legislation now. She reported briefly on Assembly Bill 361, which amended the Ralph M. Brown Act concerning open and public meetings.

Director Vásquez reported on his virtual attendance at the Water Education Foundation 2021 Water Summit, which featured the theme "Pivoting Today's Pain into Tomorrow's Gain". He stated that the summit highlighted the state's drought and programs, projects and partnerships aimed at addressing related challenges. Director Vásquez said that Karla Nemeth, Director of the California Department of Water Resources, provided an update on hydrology. She commented that the recent rainfall in Sacramento set a 24-hour record; however, even after significant rainfall, California is still experiencing the driest conditions in the month of October since 1924.

14. ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

See staff report attached hereto.

Mr. Hodgkiss said that he is working on scheduling the General Counsel interviews, and in light of the impending winter holidays and vacation schedules, it appears the only dates available for the remainder of 2021 are November 15, December 6 and December 9. The Board members (minus Director Miller) consulted their respective calendars and selected December 9 at 9:00 a.m. Mr. Hodgkiss said that he would check Director Miller's availability and confirm December 9 date once he heard back from Director Miller.

Mr. Hodgkiss said that for the November 17 Board meeting agenda there would be an agenda item for the transfer of assets to the City of Escondido to fulfill the District's obligations set forth in the Local Entities Agreement (related to the San Luis Rey Indian Water Rights Settlement). He stated for November 17 there would also be agenda items to consider a professional services agreement for the Deodar Reservoir Rehabilitation design and to receive the Treasurer's Report as of September 30, 2021. Additionally, Mr. Hodgkiss said there would be an agenda item to consider how to use the \$1.2 million rebate received from the Water Authority.

Director MacKenzie advised that she will be attending the November 17 Board meeting via teleconference due to a scheduling conflict.

Director Vásquez said that he is interested in attending the Urban Water Institute, Urban Water Spring Conference, February 16-18, 2022; however, the first day of the conference conflicts with the District's Board meeting on February 16. He requested a future agenda item to consider changing a scheduled Board meeting day from Wednesday, February 16 to Tuesday, February 15, 2022.

15. COMMENTS BY DIRECTORS

Director Dorey said that staff's inquiries has led to the conclusion that the San Luis Rey Watershed Council (SLRWC) is still in existence, but has been dormant during Chair George Wilkins' extended illness. Director Dorey reported that sadly Mr. Wilkins passed away the previous month. He stated that he will see some of the SLRWC leadership at the upcoming memorial for Mr. Wilkins, and he will see what plans there may be to move forward with the group.

16. COMMENTS BY GENERAL COUNSEL

None were presented.

17. COMMENTS BY GENERAL MANAGER

Mr. Hodgkiss informed the Board that planning for the District's Annual Employee Appreciation Event is underway, and the date would likely be December 7. He stated that a poll of the employees is being conducted to see what type of event will be preferred in light COVID-19. He suggested that the Board hold the December 7 date, if possible, and more information will follow.

A brief break was taken from 11:29 a.m. to 11:35 a.m. Upon return from break, present in the audience were Marlene Kelleher, Frank Wolinski, and Phil Zamora.

18. CLOSED SESSION: LABOR NEGOTIATIONS

President Sanchez adjourned the meeting to closed session at 11:35 a.m. for a conference with labor negotiators pursuant to Government Code section 54957.6(a). Agency negotiators: Phil Zamora, Frank Wolinski, and Marlene Kelleher.

The meeting reconvened in open session at 12:26 p.m. President Sanchez declared that no reportable action had been taken.

19. ADJOURNMENT

There being no further business to come before the Board, at 12:26 p.m. President Sanchez adjourned the meeting to November 17, 2021 at 9:00 a.m.



Patrick Sanchez, President

ATTEST:



Lisa R. Soto, Secretary
Board of Directors
VISTA IRRIGATION DISTRICT



STAFF REPORT

Agenda Item: 6.A.1

Board Meeting Date:	November 3, 2021
Prepared By:	Robert Scholl
Reviewed By:	Randy Whitmann
Approved By:	Brett Hodgkiss

SUBJECT: GRANT OF RIGHT OF WAY

RECOMMENDATION: Accept Grant of Right of Way (N70) for a specific easement from Sahar Naeemi Noroleh to Vista Irrigation District (District) and Vallecitos Water District (Vallecitos) over a 15-lot single-family residential development known as 1217 Nordahl Road, consisting of approximately 3.8 acres, located at 1217 Nordahl Road within an unincorporated area between the City of Escondido and City of San Marcos (LN 2015-009; APN 226-290-01; DIV NO 5).

PRIOR BOARD ACTION: On September 16, 2020, the Board postponed consideration of a detachment and temporary water service exchange agreement with Vallecitos for the Nordahl Road subdivision until it received an update on the terms and conditions of the existing exchange and temporary service agreements. On November 4, 2020, the Board decided not to reorganize and notified Vallecitos that the District intends to serve the project instead of entering into an exchange agreement with Vallecitos.

FISCAL IMPACT: None.

SUMMARY: Sahar Naeemi Noroleh is developing a 15-lot single-family residential development consisting of approximately 3.8 acres located at 1217 Nordahl Road within an unincorporated area between the City of Escondido and the City of San Marcos. The District does not currently have waterlines through the development; the project owner is required to extend water infrastructure through a dedicated 40-foot easement within the development in order for the District to provide water service.

Vallecitos will be providing sewer service to the project by installing new infrastructure within the development and is requiring that the owner dedicate a 40-foot overlapping easement to Vallecitos for its infrastructure. Acceptance of Grant of Right of Way by the District and Vallecitos will allow the installation of new water and sewer facilities to be located within a dedicated specific easement over the private road, and the owner to proceed with the development of her project.

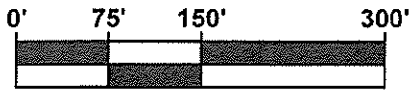
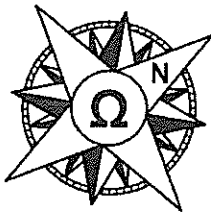
ATTACHMENT: Map

LINE DATA TABLE

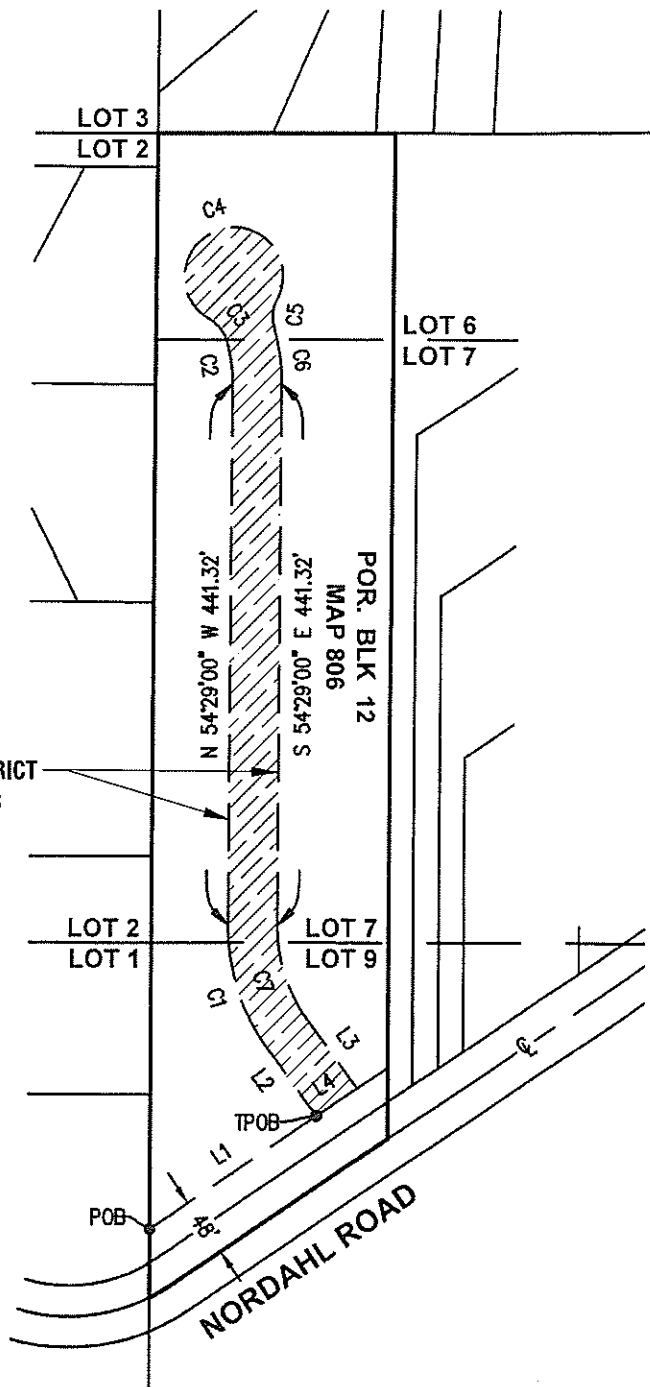
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- L3 S 89°20'39" W 69.27'
- L4 S 01°21'10" W 40.02'

CURVE DATA TABLE

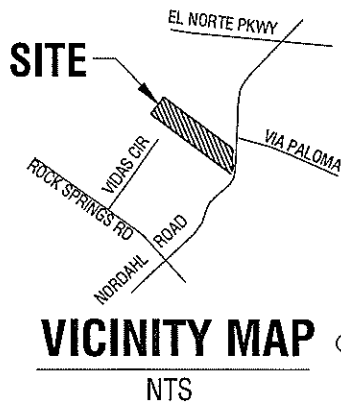
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- C2 Δ=16°01'46" R=125.00' L=34.97'
- C3 Δ=45°01'48" R=30.00' L=23.58'
- C4 Δ=268°49'38" R=40.00' L=187.68'
- C5 Δ=44°06'48" R=30.00' L=23.09'
- C6 Δ=16°20'44" R=165.00' L=47.07'
- C7 Δ=36°10'21" R=130.00' L=82.07'



SCALE: 1" = 150'



OWNER:
SAHAR NAEEMI
12003 COTORRO WAY
SAN DIEGO, CA 92128



VISTA IRRIGATION DISTRICT

GRANT OF RIGHT OF WAY (N70)

1217 NORDAHL ROAD

APN 226-290-01	T.B. 1109-E6
SCALE: NONE	LN 2015-009
APPD. BY: RS	DATE: 10/25/21
DRAWN BY: SWEETWATER ENG.	DATE: 10/20/21
SHEET 1 of 1	MAP: S24
REVISED: 10/25/21	Jose Sanchez



STAFF REPORT

Agenda Item: 6.A.2

Board Meeting Date:	November 3, 2021
Prepared By:	Robert Scholl
Reviewed By:	Randy Whitmann
Approved By:	Brett Hodgkiss

SUBJECT: GRANT OF RIGHT OF WAY

RECOMMENDATION: Accept Grant of Right of Way (N71) for a specific easement from Sahar Naeemi Noroleh to Vista Irrigation District over a 15-lot single-family residential development known as 1217 Nordahl Road, consisting of approximately 3.8 acres, located at 1217 Nordahl Road within an unincorporated area between the City of Escondido and City of San Marcos (LN 2015-009; APN 226-290-01; DIV NO 5).

PRIOR BOARD ACTION: On September 16, 2020, the Board postponed consideration of a detachment and temporary water service exchange agreement with the Vallecitos Water District (Vallecitos) for the Nordahl Road subdivision until it received an update on the terms and conditions of the existing exchange and temporary service agreements. On November 4, 2020, the Board decided not to reorganize and notified Vallecitos that Vista Irrigation District (District) intended to serve the project instead of entering into an exchange agreement with Vallecitos.

FISCAL IMPACT: None.

SUMMARY: Sahar Naeemi Noroleh is developing a 15-lot single-family residential development consisting of approximately 3.8 acres located at 1217 Nordahl Road within an unincorporated area between the City of Escondido and the City of San Marcos. The District does not currently have waterlines through the development; the project owner is required to extend water infrastructure within the development in order for the District to provide water service. This includes the installation of a fire hydrant that will lie outside of the dedicated 40-foot easement to the District and Vallecitos, per Grant of Right of Way (N70). Consent to the recordation of Grant of Right of Way (N71) will allow the District to secure a dedicated specific easement over District facilities and allow the owner to proceed with the development of her project.

ATTACHMENT: Map

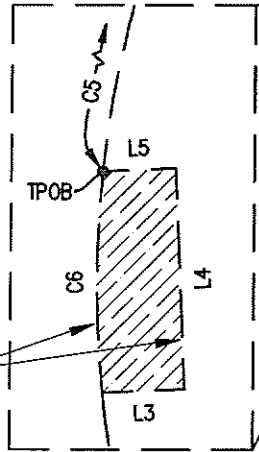
CURVE DATA TABLE

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C3	$\Delta=45^{\circ}01'48''$	R=30.00'	L=23.58'
C4	$\Delta=268^{\circ}49'38''$	R=40.00'	L=187.68'
C5	$\Delta=22^{\circ}19'59''$	R=30.00'	L=11.69'
C6	$\Delta=11^{\circ}29'16''$	R=30.00'	L=6.02'

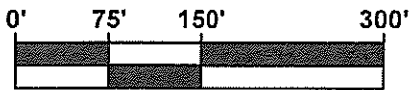
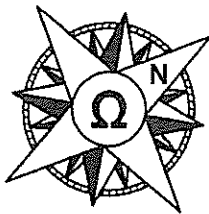
LINE DATA TABLE

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L3	N 32°53'53" E	2.18'
L4	N 57°06'07" W	6.00'
L5	S 32°53'53" W	1.94'

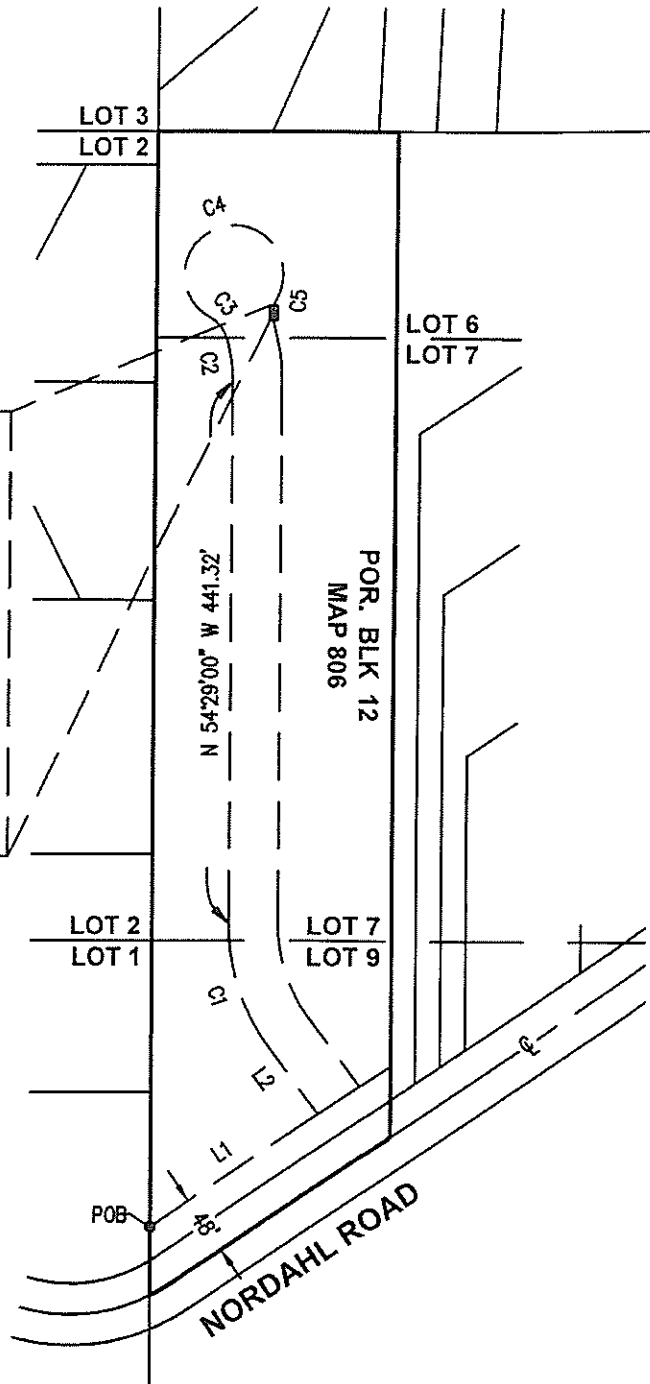
PROPOSED DISTRICT
EASEMENT (N71)



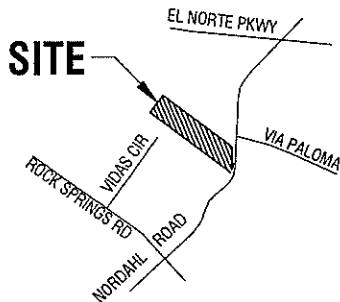
DETAIL
SCALE: 1" = 5'



SCALE: 1" = 150'



OWNER:
SAHAR NAEEMI
12003 COTORRO WAY
SAN DIEGO, CA 92128



VICINITY MAP
NTS

VISTA IRRIGATION DISTRICT

GRANT OF RIGHT OF WAY (N71)

1217 NORDAHL ROAD

APN 226-290-01	T.B. 1109-E6
SCALE: NONE	LN 2015-009
APPD. BY: RS	DATE: 10/25/21
DRAWN BY: SWEETWATER ENG.	DATE: 10/20/21
SHEET 1 of 1	MAP: S24
REVISED: 10/25/21	Jose Sanchez
PATH Z:\Engineering\JOBS\LN-Jobs\LN2015\In2015-009 1217 Nordahl Road\Grant of Right of Way\Staff report Exhibit.dwg	

W.O.



Cash Disbursement Report

Payment Dates 10/7/2021 - 10/20/2021

Payment Number	Payment Date	Vendor	Description	Amount
67924	10/13/2021	Airgas USA LLC	Oxygen & Acetylene	883.26
67926	10/13/2021	Amazon Capital Services	Flexible Spout Extensions	27.00
	10/13/2021		Electrical & Hydraulic Circuit ID Tags	25.07
67927	10/13/2021	Answering Service Care, LLC	Answering Service	395.00
67928	10/13/2021	Association of California Water Agencies	Membership Dues 2022	25,760.00
67929	10/13/2021	Bryan and the Bee's	Live Bee Removal (1)	175.00
	10/13/2021		Live Bee Removal (1)	175.00
67930	10/13/2021	Cecilia's Safety Service Inc	Traffic Control - Cypress Dr	1,710.00
	10/13/2021		Traffic Control - Via Teresa	451.25
	10/13/2021		Traffic Control Design - Tinamou Place	35.00
67931	10/13/2021	Core & Main	10" Pump Control Valve (1) - Station 10	15,452.70
	10/13/2021		Gasket 2" Meter Flg HP Drop In (20)	251.15
	10/13/2021		Gasket 1.5" Meter Flg HP Drop In (20)	200.26
	10/13/2021		6" Gate Valve (1)	810.80
67932	10/13/2021	Craneworks Southwest Inc	Hydraulic Hoses - B21	431.65
67933	10/13/2021	Diamond Environmental Services	Stationary & Portable Restroom Service	317.25
67934	10/13/2021	Ferguson Waterworks	Regulator Repair Parts	1,063.31
	10/13/2021		Pipe 6" PVC DR-14 C900 (40)	525.23
	10/13/2021		18" PVC Deflection Coupling (6)	10,665.24
	10/13/2021		2" PVC Sch 80 Threaded Caps (5)	37.35
	10/13/2021		Pipe 6" PVC DR-14 C900 (60)	732.64
	10/13/2021		Pipe 6" PVC DR-14 C900 (720)	8,090.17
	10/13/2021		Pipe 8" PVC DR-14 C900 (60)	1,160.01
	10/13/2021		Meter 3/4" x 1" electronic read (125)	20,398.45
67935	10/13/2021	Glennie's Office Products Inc	Office Supplies	6.38
	10/13/2021		Office Supplies	759.74
67936	10/13/2021	Grainger	Gas Detector Parts	58.48
67937	10/13/2021	Hawthorne Machinery Co	Battery - B21	158.39
	10/13/2021		Hydraulic Hose Grommets - B21	104.17
	10/13/2021		Parts, Filters	359.00
67938	10/13/2021	Home Depot Credit Services	Rubber Pipe Insulation	19.44
	10/13/2021		Lumber	30.38
	10/13/2021		Dimmable Light Bulbs	11.91
	10/13/2021		Supplies for Carpenter Shop & Facilities	78.89
	10/13/2021		Lumber, Stakes	127.89
	10/13/2021		Concrete Foam Lumber	205.58
	10/13/2021		Foam	16.28

Payment Number	Payment Date	Vendor	Description	Amount
	10/13/2021		Lumber	20.08
	10/13/2021		Foam	37.58
	10/13/2021		Shears	17.29
	10/13/2021		Conduit	127.11
	10/13/2021		Infrared Thermometer	43.27
	10/13/2021		Nails	93.07
67939	10/13/2021	IDEXX Distribution Corporation	Colilert & Bottles	3,613.13
	10/13/2021		18 Hour Colilert Media	209.69
67940	10/13/2021	Lightning Messenger Express	Messenger Service 09/03/21 & 09/10/21	78.00
	10/13/2021		Messenger Service 09/17/21	58.50
67941	10/13/2021	Major League Pest	Monthly Pest Control	225.00
67942	10/13/2021	Moody's	Dump Fee (1)	300.00
	10/13/2021		Dump Fees (3)	900.00
67943	10/13/2021	NAPA Auto Parts	Filters (4)	128.43
67944	10/13/2021	North County Pool Center Inc	Chlorine	22.40
67945	10/13/2021	Pacific Pipeline Supply	Gate Valve 6" FL Butterfly (4)	5,018.47
	10/13/2021		Lid 8" Slotted Valve (VID) (700)	20,459.25
	10/13/2021		8"X6" DIP Spool (2)	1,011.41
	10/13/2021		Valve Support Stand (1) - Station 10	66.93
67946	10/13/2021	Paul Dorey	Reimburse - Mileage 09/2021	119.84
67947	10/13/2021	Paychex of New York LLC	Onboarding/Recruiting/Flex Benefits Svc 10/2021	812.50
67948	10/13/2021	Ray A Morgan Company Inc	Canon TX-3000 Print Head	384.83
67949	10/13/2021	Rincon del Diablo MWD	MD Reservoir Water Service 09/2021	64.01
67950	10/13/2021	Ruby Slipper Shoes & Repair	Boot Repair	98.00
67951	10/13/2021	Rutan & Tucker LLP	Legal 08/2021	2,464.50
	10/13/2021		Legal 08/2021	1,885.00
67952	10/13/2021	San Diego Gas & Electric	Gas Use 09/2021	367.02
	10/13/2021		Electric 09/2021 - Henshaw Buildings & Grounds	454.74
	10/13/2021		Electric 09/2021 - Henshaw Well Field	11,489.07
	10/13/2021		Electrical Use 09/2021 - VID Headquarter	4,555.97
67953	10/13/2021	Save Our Heritage Organisation	WCRH O&M Contribution 10/2021 - 12/2021	3,000.00
67954	10/13/2021	Southern Counties Lubricants, LLC	Oil	862.05
67955	10/13/2021	Spok, Inc	Pagers	44.31
67956	10/13/2021	Sunbelt Rentals	Concrete	271.47
67957	10/13/2021	Tegriscap Inc	Landscape Service 09/2021	2,082.00
67958	10/13/2021	Bend Genetics, LLC	HABs Lab Analysis	925.00
67959	10/13/2021	Midas Service Experts	Tires (4), Alignment - Truck 40	593.89
67960	10/13/2021	TS Industrial Supply	Locks 2029 Master (66)	946.65
	10/13/2021		Gloves Welding LG (5)	131.25
	10/13/2021		Cutter 1/8" to 1 5/8" Ridgid #RC-1625 PVC (1)	76.15
67961	10/13/2021	UniFirst Corporation	Uniform Service	331.01
67962	10/13/2021	Valerie Benito-Nedel	Refund - Lateral Termination Fee	1,914.00

Payment Number	Payment Date	Vendor	Description	Amount
67963	10/13/2021	VWR International LLC	Sample Bottles for HABS	139.24
67964	10/13/2021	WaterISAC	Membership Dues 2022	2,200.00
67965	10/13/2021	White Cap Construction Supply	Simpson Tie Straps	68.79
67966	10/13/2021	Wood EIS Inc	Asbestos Pipe Testing	13,502.40
67967	10/13/2021	Zuza LLC	Vehicle Inspection Forms	608.37
67968-67971	10/20/2021	Refund Checks 67968 - 67971	Customer Refund	735.53
67972	10/20/2021	ACTenviro	Hazardous and Universal Waste Removal	2,806.46
67973	10/20/2021	AC Plumbing	Meter Tie-backs - Vista Grande	7,419.00
	10/20/2021		Emergency Service Leak Repair - York Dr	825.00
67974	10/20/2021	Allied Electronics Inc	SCADA Fan	211.26
	10/20/2021		Touch-up Spray Paint	48.51
67975	10/20/2021	Amazon Capital Services	Mouse Poison & Traps	55.26
	10/20/2021		FOB Security Buzzers (5)	66.50
	10/20/2021		Water Connectors (2)	35.28
	10/20/2021		Fence Stretchers	192.17
67976	10/20/2021	AT&T	3680/CALNET 09/13/21-10/12/21 - Phones	416.60
	10/20/2021		0230/CALNET 09/13/21-10/12/21 - Teleconference	20.89
67977	10/20/2021	Basic	Cobra Administration 10/2021	55.00
67978	10/20/2021	Cecilia's Safety Service Inc	Traffic Control - Scott St	1,330.00
	10/20/2021		Traffic Control - Thibodo Rd/Chaparral Dr	4,085.00
	10/20/2021		Traffic Control - Columbus Way	2,850.00
	10/20/2021		Traffic Control - Monte Vista Dr	1,235.00
	10/20/2021		Traffic Control - Melrose Way	2,280.00
	10/20/2021		Traffic Control - Melrose Way	3,230.00
	10/20/2021		Traffic Control - E Vista Way/Mason Rd	4,845.00
	10/20/2021		Traffic Control - Columbus Way	2,375.00
	10/20/2021		Traffic Control - Mason Way	3,135.00
	10/20/2021		Traffic Control - W Los Angeles St/W California St	3,105.00
	10/20/2021		Traffic Control - Lado de Loma/Peters Dr	1,520.00
67979	10/20/2021	Certified Laboratories	Vertical Turbine Motor Oil (15)	645.67
67980	10/20/2021	760Print	Door Hangers (1000)	191.61
67981	10/20/2021	City of Oceanside	Weese Treatment - 09/2021	18,012.12
67982	10/20/2021	CleanCapital HC4 Borrower LLC	Solar Energy Use 09/2021	6,052.29
67983	10/20/2021	Core & Main	18" C-905 (DR 18 Pipe) (66)	4,348.87
	10/20/2021		Corp Stop .75" MIP X Flare (2)	105.01
	10/20/2021		Stainless Steel Insert for PEP - Insert 53-72 (20)	48.72
	10/20/2021		Nut Bolt Gasket Kit 4" (4" gasket) (15)	113.66
	10/20/2021		Adapter FH Brass 2.5"x.75" FHTxIPT (1)	14.62
	10/20/2021		Adapter FH Swivel 2.5"x2.5" (1)	87.68
	10/20/2021		Nut Bolt Gasket Kit 6"-8"(6" gskt) 3/4 x 3 1/4 (10)	102.84
	10/20/2021		Adapter 2.5" MNST X 2" MIPT Hose (4)	108.25
	10/20/2021		Coupling 1"x1" Female Flare Super Grip (5)	140.73

Payment Number	Payment Date	Vendor	Description	Amount
	10/20/2021		Sleeve 8"x12" Galvanized Top Sections (50)	595.38
	10/20/2021		Ell 6"x16" POxFL Bury DI (3)	1,071.68
	10/20/2021		Tubing 1" Copper Soft 60' (240)	2,065.41
	10/20/2021		Fire Hydrant LB400 Check Valve (6)	10,716.75
	10/20/2021		Nut Bolt Gasket Kit 3" (3" gasket) (3)	13.80
	10/20/2021		Zinc Anode bag 30lb (25)	3,924.07
	10/20/2021		Flange 6" SOW 6-hole (4)	151.55
	10/20/2021		Material for Vault	859.85
	10/20/2021		DI Spool (1)	183.31
	10/20/2021		18" C-905 (DR 18) Pipe (660)	43,488.57
67984	10/20/2021	CoreLogic Solutions Inc	RealQuest Online Services 09/2021	310.33
67985	10/20/2021	Todd Groundwater, Inc.	Warner Wellfield Assessment 08/2021	1,951.25
67986	10/20/2021	Davis Farr LLP	Audit Services 09/2021	12,000.00
67987	10/20/2021	Streamline	Website Hosting, Maintenance & Support 10/2021	300.00
67988	10/20/2021	Direct Energy	Electric 09/2021 - VID Headquarter	3,087.42
67989	10/20/2021	EDCO Waste & Recycling Services Inc	40 Yd Dumpster, Concrete Removal	2,719.17
	10/20/2021		Tree Stumps & Green Waste Removal - Pechstein	659.20
67990	10/20/2021	EH Wachs Company	Valve Turner Parts - Truck 10	262.49
67991	10/20/2021	Ergostop Inc	Standing Mats (2) - Cashier's Area	232.63
67992	10/20/2021	Ferguson Waterworks	Regulator Pulse Control Solenoids (4)	304.18
67993	10/20/2021	Glennie's Office Products Inc	Office Supplies	39.81
	10/20/2021		Office Supplies	15.10
67994	10/20/2021	Graham Research Consultants	Training 11/02/21 - Sexual Harassment Prevention	2,500.00
67995	10/20/2021	Grainger	Filter/Probe for Air Monitors	46.43
67996	10/20/2021	Hach Company	Agar Media	434.37
	10/20/2021		Nitrite Reagents	106.49
67997	10/20/2021	HELIX Environmental Planning, Inc	AB Pipeline Environmental Analysis 09/2021	1,612.50
67998	10/20/2021	Jan-Pro of San Diego	Janitorial Service 09/2021 - COVID-19	1,344.00
	10/20/2021		Janitorial Service 10/2021	4,497.00
67999	10/20/2021	Ken Grody Ford Carlsbad	Oil Cooler - Truck 79	98.19
	10/20/2021		Steering Stabilizer Shock - Truck 1	68.03
68000	10/20/2021	Leon Perrault Trucking & Materials	Trucking & Material 09/2021	18,865.00
68001	10/20/2021	Medical Eye Services	Vision Insurance 11/2021 - Cobra	8.78
	10/20/2021		Vision Insurance 11/2021- Employees	1,598.54
	10/20/2021		Vision Insurance 11/2021 - J MacKenzie	14.24
	10/20/2021		Vision Insurance 11/2021 - R Vasquez	14.24
	10/20/2021		Vision Insurance 11/2021 - M Miller	14.24
	10/20/2021		Vision Insurance 11/2021 - P Sanchez	14.24
	10/20/2021		Vision Insurance 11/2021 - P Dorey	14.24
68002	10/20/2021	Moodys	Dump Fees (2)	600.00
68003	10/20/2021	NAPA Auto Parts	Coolant, Filter	72.80
	10/20/2021		Filter - Truck 65	15.23

Payment Number	Payment Date	Vendor	Description	Amount
	10/20/2021		VVT Actuator Solenoid - Truck 14	54.66
	10/20/2021		VVT Solenoid - Truck 73	54.66
	10/20/2021		Pigtail Harnesses (2)	37.87
68004	10/20/2021	North County Auto Parts	Combustion Leak Tester	47.55
	10/20/2021		Leak Detector Fluid	13.53
	10/20/2021		Chemicals, Oil, Wipers	105.87
	10/20/2021		Filter - Truck 1	77.24
	10/20/2021		Rear Brake Pads - Truck 1	91.33
	10/20/2021		Absorbent Mats for Spills	64.95
	10/20/2021		Shop Chemicals	38.36
	10/20/2021		Electric Brake Controller - Truck 52	119.06
	10/20/2021		Pigtail Harness	17.27
68005	10/20/2021	O'Reilly Auto Parts	Rubbing Compound & Applicators	14.59
	10/20/2021		Seat Covers, Floor Mats - Truck 75	129.87
	10/20/2021		Floor Mats - Truck 85	64.94
68006	10/20/2021	Pacific Pipeline Supply	Angle Stops (3)	383.96
	10/20/2021		Pipe Restrainer Kits (2)	266.17
68007	10/20/2021	Praxis Corporation	Bonding & Grounding Training	2,500.00
68008	10/20/2021	Ramco Petroleum	Fuel 09/2021	2,213.87
68009	10/20/2021	San Diego Gas & Electric	Electric 09/2021 - T&D	98.77
	10/20/2021		Electric 09/2021 - Reservoirs	56.34
68010	10/20/2021	Southern Counties Lubricants, LLC	Grease Cartridges (3)	131.58
	10/20/2021		Fuel 09/16/21 - 09/30/21	7,741.70
68011	10/20/2021	Stillwater Sciences	HABs Management Plan 08/2021	20,319.25
68012	10/20/2021	Sunbelt Rentals	Trash Hopper	3,054.17
	10/20/2021		Concrete	571.87
68013	10/20/2021	Bend Genetics, LLC	HABs Lab Analysis	925.00
68014	10/20/2021	Midas Service Experts	Tires (4) - Truck 36	958.39
68015	10/20/2021	The San Diego Union-Tribune LLC	Subscription - Remaining/Closure Balance	26.73
68016	10/20/2021	TS Industrial Supply	Sea 1/2" Teflon Tape (10)	6.28
	10/20/2021		Wire Brush Wood Handle 4 x 19 (14 in.) (4)	14.94
	10/20/2021		Sea 2" Pipe Wrap Tape (2 x 100 ft) (18)	139.90
	10/20/2021		Striping Paint Blue #750 (24)	135.10
	10/20/2021		Gatorade 2.12 oz Fruit Punch Powder Pkts (144 ct)(1)	128.82
	10/20/2021		Striping Paint White #710 (22)	123.84
	10/20/2021		Metal Cutting Wheel Type 27 (4 1/2") (20)	87.25
	10/20/2021		Striping Paint Asphalt Black #770 (12)	67.55
	10/20/2021		Survey Marking Paint Pink #229 (12)	52.35
	10/20/2021		Construction Marking Paint White #255 (12)	46.37
	10/20/2021		Construction Marking Paint Blue #254 (12)	46.37
	10/20/2021		Wire Brush 7 3/4" w Plastic Handle (10)	26.63
	10/20/2021		Electrical Tape (3/4" x 60') (20)	25.55

Payment Number	Payment Date	Vendor	Description	Amount
	10/20/2021		Water Shut off Valves (2) - Truck 10	18.92
	10/20/2021		Digging Bar Heavy Duty (3)	409.19
	10/20/2021		Hammer 10" Tomahawk (6)	405.94
	10/20/2021		Gloves Thickster Nitrile XL 100 per box (10)	281.45
	10/20/2021		Gloves Thickster Nitrile LG 100 per box (10)	281.45
	10/20/2021		Socket 1.125" Deep .5" Drive (1)	18.82
	10/20/2021		Towel Scrub in a Bucket (6)	121.78
	10/20/2021		Measuring Tape 25' Engineering (5)	100.13
	10/20/2021		Poly Sprayer 1 gallon (1)	86.18
	10/20/2021		Sling Lifting 2"x6' Heavy Duty (3)	85.57
	10/20/2021		Shovel 4" Trench (3)	69.82
	10/20/2021		Mirror 3.25" Diameter Telescopic (2)	51.42
	10/20/2021		Towel Wypall X80 (5)	185.11
68017	10/20/2021	Underground Service Alert of Southern California	DigAlert New Tickets 09/2021 (288)	481.90
	10/20/2021		Safe Excavation Board Fees 09/2021	247.93
68018	10/20/2021	UniFirst Corporation	Uniform Service	331.01
68019	10/20/2021	Vista Paint Corporation	Paint	200.08
Grand Total:				408,728.23



COMMITTEE REPORT

Board Meeting Date: November 3, 2021
Prepared By: Dirs. Sanchez & Miller

SUBJECT: DISTRICT FEES AND CHARGES OTHER THAN WATER RATES

RECOMMENDATIONS:

1. Conduct a public hearing for the purpose of receiving comments on proposed increases and decreases to Vista Irrigation District fees and charges other than water rates.
2. Consider adopting Resolution No. 21-XX revising the Rules and Regulations of Vista Irrigation District to incorporate increases and decreases to fees and charges other than water rates.

PRIOR BOARD ACTION: On October 7, 2020, the Board conducted a public hearing to receive comments on proposed increases and decreases to fees and charges other than water rates. There were no public comments, written or oral, presented. Adopted Resolution No. 20-28 revising Rules and Regulations of the District to incorporate increases and decreases to fees and charges other than water rates.

FISCAL IMPACT: The revenue produced by these fees and charges is designed to recover the costs associated with the services provided by the District. Adoption of the new miscellaneous fees and charges will increase revenue to the District of approximately \$213,000 if the number and type of transactions remained similar to those in the past. In Fiscal Year 2021, the District collected \$1.8 million in revenues from miscellaneous fees and charges.

SUMMARY: Every year, the District performs a nexus study and fee analysis to ensure that its fees and charges accurately reflect the actual costs of providing services and only those costs. As a result, the District's fees and charges need revision to properly account for changes in the cost of labor, materials, and outside services for the coming year. The fee summary schedule attached is a comprehensive list of fees and charges other than water rates. The proposed modifications to the fee summary result from changes in material costs, updated process analyses, changes in labor costs and costs of outside services.

DETAILED REPORT: Staff has performed detailed costs studies on all fees and charges. The proposed changes are necessary due to inflationary factors and the updated results of the very detailed analysis of the cost make-up of each fee. The proposed fees are calculated using current costs for labor, materials and outside services; a majority of the changes in this fee study are related to increases in labor costs and the cost of outside services (mainly asphalt repair) and/or parts. Capacity fees are proposed to increase by 22.3%; the principal factor driving the adjustment is the incorporation of the updated cost of replacing the nearly 100-year old Vista Flume. Staff will present the changes of individual fees at the Board meeting. The proposed fees reflect the estimated cost of providing services in calendar year 2022.

The Notice of Public Hearing was (and will be) duly published in The San Diego Union-Tribune (Union-Tribune), a newspaper of general circulation in the District's service area, on October 25, 2021 and October 31, 2021. The affidavit of publication will be included as part of the administrative record and made available to the public upon receipt from the Union-Tribune. In addition, in accordance with Government Code §66016, the District has made available to the public detailed calculations that serve to demonstrate the need for the proposed fee increases and decreases. The information shall continue to be accessible and shall be made available at the public hearing to any interested party at the District's headquarters, located at 1391 Engineer Street, Vista, CA 92081.

ATTACHMENTS:

- Notice of Public Hearing
- Fee Analysis Executive Summary and Proposed Fee Summary
- Strikeout version of amended sections of the Rules and Regulations
- Draft resolution amending Rules and Regulations



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Board of Directors

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Marty Miller
Richard L. Vásquez

Administrative Staff

Brett L. Hodgkiss
General Manager
Lisa R. Soto
Board Secretary
David B. Cosgrove
General Counsel

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that Vista Irrigation District will hold a public hearing in its Board Room located at 1391 Engineer Street, Vista, California, on Wednesday, November 3, 2021, at 9:00 a.m. to consider revising the Rules and Regulations of the District relating to increasing and decreasing fees and charges other than water rates. All interested parties are invited to observe and participate in this public hearing to express opinions and/or present evidence relative to this matter and the fees being proposed.

In accordance with Government Code §66016, Vista Irrigation District has made available public data demonstrating the need for the proposed fee increases and decreases; such information shall continue to be available and shall also be made available at the public hearing to any interested party at the District's headquarters, located at 1391 Engineer Street, Vista, CA 92081.

Members of the public may attend this hearing in person; in-person attendees must comply with California Department of Public Health COVID-19 related guidance, including face-covering requirements. Members of the public may also observe and participate in the hearing through Vista Irrigation District's teleconferencing line; the phone number and applicable pass code for such participation is as follows: Phone (877) 873-8018; Pass Code 474698#. Telephone participants who are interested in observing and/or participating in the public hearing regarding the fees being considered are requested to place calls to the number listed above at or before 8:50 a.m. on November 3, 2021, so District staff can organize the number and order of speakers and assure the ability of all who wish to participate.

Members of the public may also present testimony or evidence at the public hearing by way of email, traditional mail or expedited courier service. Email communications may be sent to BoardSecretary@vidwater.org. Mailed testimony or evidence should be addressed as follows: Lisa Soto, Board Secretary, Vista Irrigation District, 1391 Engineer Street, Vista, CA 92081. Only emailed and mailed submissions received at the email and physical addresses listed on or before the 9:00 a.m. hearing time on November 3, 2021 will be considered.

Please take notice that if you or anyone on whose behalf you are acting wishes to challenge any of the matters considered at the public hearing, in court or through other legal means, you may be limited to raising only such subjects as were raised through the conduct of the hearing.

The proposed new fee schedule to be considered by the Vista Irrigation District Board of Directors in connection with the public hearing may be viewed on the District's website at <https://www.vidwater.org/public-notices>. Such materials, and other requests for information, may also be requested by contacting the Board Secretary's office at the address listed above, or by telephoning (760) 597-3128, between 8:00 a.m. and 5:00 p.m., Monday through Friday.

Lisa R. Soto, Secretary
Board of Directors, Vista Irrigation District

PROOF OF PUBLICATION (2010 & 2011 C.C.P.)

STATE OF CALIFORNIA County of San Diego

I am a citizen of the United States and a resident of the County aforesaid: I am over the age of eighteen years and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of

The San Diego Union Tribune

Formerly known as the North County Times and UT North County and which newspaper has been adjudicated as a newspaper of general circulation by the Superior Court of the County of San Diego, State of California, for the City of Oceanside and the City of Escondido, Court Decree numbers 171349 & 172171, for the County of San Diego, that the notice of which the annexed is a printed copy (set in type not smaller than nonpariel), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

October 25th & 31st, 2021

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated at **TEMECULA, California** this
1st, day November, 2021

Jane Allshouse

Jane Allshouse

The San Diego Union Tribune
Legal Advertising

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/s/ Lisa R. Soto, Secretary
Board of Directors, Vista Irrigation District



Fees and Charges other than Water Rates

Vista Irrigation District (District) has over 100 different fees and charges that are collected for the provision of services. Every year, the District performs a nexus study and fee analysis to ensure that its fees and charges accurately reflect the actual costs of providing services and only those costs. As a result, the District's fees and charges need to be increased or decreased to properly account for changes in the cost of labor, materials, and outside services for the coming year. Below are brief description of the most common components used in the calculation of fees and charges and explanations as to why fees and charges are increasing by service category (e.g. Construction, Engineering, Customer Service and Water Conservation). Attached is a Proposed Fee Summary that shows each of the fees and charges, the amount of increase or decrease and a brief note of factors contributing to the increase or decrease in a fee or charge. The data and detailed fee calculations are available to the public for public review at the District office.

Fee Components

The calculation of individual fees and charges is based on identified cost centers, such as labor, parts and materials and contract services. Labor costs are fully burdened to include taxes, benefits, equipment and assets, support staff and supervision, computers and other related overhead costs. Actual costs are used for all parts, materials and outside services; these costs are based on contract pricing, inventory values, last order cost or a request for quote from a vendor. Fees and charges can increase or decrease depending on changes to these cost centers as well as labor hours associated with providing a service.

Parts and Materials - inventory part costs are taken directly from the District's inventory system at Fiscal Year-end and based on the average actual cost of an item. Non-inventory part costs are based on the last purchase of an item or a quote from a vendor. The District procures parts and materials via a competitive bidding process to ensure it gets the items at the lowest price.

Material Burden - this cost represents the burden on material costs for the labor to obtain, store and distribute the materials. The material burden rate is calculated every five years and is based on the labor costs to operate and stock the warehouse. The material burden percentage is currently 25%.

Service Burden - this cost represents the burden on outside service contracts costs for labor to negotiate, prepare, execute and administer an agreement through completion. The service burden is calculated every five years. The District procures outside services via a competitive bidding process to ensure it gets the items at the lowest price. The services burden is currently at 8%.

Outside Services – the District contracts with third-party parties to provide certain services, such as paving and traffic control. The cost associated with said services is included in various construction related fees and pricing set forth in the contract. Costs can change annually due to new contracts being negotiated or pricing being adjusted for inflation (as specified in the contract terms).

Labor Rate – the labor rate is equal to the average non-management employee’s salary plus burden, including taxes, benefits, equipment and assets, support staff and supervision, liability insurance, computers, supplies and other related overhead costs. The labor rate is calculated annually based on actual costs, capturing negotiated salary increases (generally based on the U.S. Department of Labor’s Consumer Price Index – All Urban Consumers – San Diego, California) as well as changes in benefit and other burden related costs. The fully burdened labor rate, which incorporated adjustments to salary, benefit and other burden related costs, increased by 6.35%.

Labor Time – the District completes a full time and motion study for all fee and charges every other year. In years that the time and motion study is not undertaken, the time component of labor costs remains constant, unless adjustments are necessary due to changes in process. When a time and motion study is performed, the time estimates to complete tasks associated with a fee or charge are reviewed and adjusted, if necessary, to ensure they reflect the average actual time to complete said task.

Fee Increase Summary

Construction Fees

Construction fees are comprised of labor, parts/materials and outside services costs. Labor cost increases are explained in the Fee Components section. Outside services costs, specifically pavement restoration, increased significantly last year. Higher paving costs increased certain constructions fees (e.g. service outlets, full meter installs, temporary offsite service and fire service connections) by \$300 to \$500. Additionally, part costs have increased significantly due to supply chain challenges and market conditions during the COVID-19 pandemic. PVC Pipe costs have increased by up to 70% (depending on the size); copper pipe and fittings have increased by up to 40%; and the cost of other parts used in various construction fee calculations, such as fire hydrant check valves, galvanized valve sleeves and nut and bolt gasket kits, have risen by 11% to 34%.

Engineering Fees

Most Engineering fees are comprised of labor cost, the exceptions being Annexation, Detachment and Capacity Fees. Labor cost increases are explained in the Fee Components section. The labor time component for Hydraulic Analysis, Grant of Right of Way, Quitclaim, Encroachment Permit, Joint Use Agreement and Meter Service Lateral Inspection all increased. Encroachment Permit and Joint Use Agreement fees were added in 2020; labor time associated with said fees has been increased based on updated time and motion studies for each service. Other Engineering fees increased due to changes in process.

Capacity fees are calculated based on the value of the District infrastructure and master plan expansion to arrive at a cost per connection at maximum build out; the fee for each meter size is based on the hydraulic capacity of said meter. Capacity fees are increasing by 22%, primarily driven by an increase in the cost of replacing the District's nearly 100-year old Vista Flume, which conveys water from the Escondido-Vista Water Treatment Plant (EVWTP) to the District's service area. The estimated cost to replace the 11 mile Vista Flume has risen from \$50 million to \$120 million based on a Water Supply Planning Study completed by Gillingham Water Planning and Engineering, Inc. in March 2020. During a planned 10-day shutdown along the San Diego County Water Authority's second aqueduct, the District is largely dependent on the Vista Flume to convey water from EVWTP into its distribution system to serve its customers.

Customer Service Fees

Customer Service Fees are mainly comprised of labor costs, which are explained in the Fee Components section. The Return Check fee also includes bank fees, and the Damaged Curb Stop fees include parts.

Water Conservation Fees

Water Conservation Fees are mainly comprised of labor costs, which are explained in the Fee Components section.

Vista Irrigation District

PROPOSED FEE SUMMARY

Effective: January 1, 2022

	Current Fee	Proposed Fee	\$ Change	% Change	Comments
Construction Fees:					
5/8" Meter Full Install	\$ 5,652	\$ 6,234	\$ 582	10.3%	Parts, paving and labor costs increased
5/8" Meter Hook On	677	655	(22)	(3.2%)	Labor cost increased; parts cost decreased
5/8" Service Outlet *	4,975	5,579	604	12.1%	Parts, paving and labor costs increased
3/4" Meter Full Install	5,655	6,243	588	10.4%	Parts, paving and labor costs increased
3/4" Meter Hook On	680	664	(16)	(2.4%)	Labor cost increased, parts cost decreased
3/4" Service Outlet *	4,975	5,579	604	12.1%	Parts, paving and labor costs increased
1" Meter Full Install	5,770	6,396	626	10.8%	Parts, paving and labor costs increased
1" Meter Hook On	795	817	22	2.8%	Labor cost increased
1" Service Outlet *	4,975	5,579	604	12.1%	Parts, paving and labor costs increased
1 1/2" Meter Full Install	7,702	8,409	707	9.2%	Parts, paving and labor costs increased
1 1/2" Meter Hook On	1,857	1,901	44	2.4%	Parts and labor costs increased
1 1/2" Service Outlet *	5,845	6,508	663	11.3%	Parts, paving and labor costs increased
2" Meter Full Install	7,534	8,260	726	9.6%	Parts, paving and labor costs increased
2" Meter Hook On	1,689	1,752	63	3.7%	Parts and labor costs increased
2" Service Outlet *	5,845	6,508	663	11.3%	Parts, paving and labor costs increased
Fire Hydrant Full Install *	17,041	18,800	1,759	10.3%	Parts, paving and labor costs increased
Fire Hydrant Upgrade *	6,519	7,015	496	7.6%	Parts and labor costs increased
4" Fire Service Connection *	11,723	12,780	1,057	9.0%	Parts, paving and labor costs increased
6" Fire Service Connection *	12,303	13,280	977	7.9%	Parts, paving and labor costs increased
8" Fire Service Connection *	13,256	14,567	1,311	9.9%	Parts, paving and labor costs increased
10" Fire Service Connection *	14,824	16,103	1,279	8.6%	Parts, paving and labor costs increased
Air Vent, Blow Off, and Gate Valve for Fire Service	4,035	4,403	368	9.1%	Parts and labor costs increased
Commercial Irrigation Service Conversion Fee	1,954	2,072	118	6.0%	Parts and labor costs increased
Backflow Device Set-up	252	268	16	6.3%	Labor cost increased
Reset Pressure Valve	200	212	12	6.0%	Labor cost increased
1" Construction Meter Deposit With Backflow Device	1,068	1,104	36	3.4%	Parts and labor costs increased
Refundable Amount	615	634	19	3.1%	Refund amount increases as part costs increase
1" Construction Meter Deposit With Spanner and Backflow Device	1,088	1,124	36	3.3%	Parts and labor costs increased
Refundable Amount	631	650	19	3.0%	Refund amount increases as part costs increase
3" Construction Meter Deposit With Backflow Device	4,138	4,012	(126)	(3.0%)	Labor cost increased; parts cost decreased
Refundable Amount	2,867	2,729	(138)	(4.8%)	Refund amount increases as part costs increase
Unauthorized Taking of District Water	2,708	2,769	61	2.3%	Labor cost increased
Relocate Construction Meter	168	179	11	6.5%	Labor cost increased
Unauthorized Construction Meter and Backflow Device Move Penalty	335	355	20	6.0%	Labor cost increased
Subdivision Construction Meter Deposit	8,827	8,830	3	0.0%	Labor cost increased, parts cost decreased
Refundable Amount	6,790	6,773	(17)	(0.3%)	Refund amount decreases as part costs decrease
Meter Service Lateral Termination	1,914	2,080	166	8.7%	Parts and labor costs increased

These fees supersede any previously adopted fees.

Vista Irrigation District PROPOSED FEE SUMMARY Effective: January 1, 2022

	Current Fee	Proposed Fee	\$ Change	% Change	Comments
Temporary Offsite Service *	6,718	7,863	1,145	17.0%	Incorporated actual versus estimated service outlet cost into fee
Plus: Per Foot Frontage Charge	62	71	9	14.5%	Parts, paving and labor costs increased
Temporary Service Agreement Conversion *	7,418	8,773	1,355	18.3%	Incorporated actual versus estimated service outlet cost into fee
Plus: Per Foot Frontage Charge	62	71	9	14.5%	Parts, paving and labor costs increased
Temporary Service Agreement Conversion Excluding Tieback and Permit *	5,798	7,153	1,355	23.4%	Incorporated actual versus estimated service outlet cost into fee
Plus: Per Foot Frontage Charge	62	71	9	14.5%	Parts, paving and labor costs increased
Cancellation of Meter Application	263	272	9	3.4%	Labor cost increased
Meter Downsize from ¾"	525	558	33	6.3%	Labor cost increased
Meter Downsize from 1"	525	558	33	6.3%	Labor cost increased
Meter Downsize from 1½"	950	994	44	4.6%	Labor cost increased
Meter Downsize from 2"	1,202	1,262	60	5.0%	Labor cost increased

* The cost of permit associated with this fee will be determined at the time of application. The cost of permit is dependent upon its jurisdiction.

Vista Irrigation District PROPOSED FEE SUMMARY Effective: January 1, 2022

	Current Fee	Proposed Fee	\$ Change	% Change	Comments	
Engineering Fees:						
Hydraulic Analysis with Schematic Layout	\$ 788	\$ 1,140	\$ 352	44.7%	Labor cost and time increased	
Statement of Cost	473	503	30	6.3%	Labor cost increased	
Update Statement of Cost	211	224	13	6.2%	Labor cost increased	
Specifications Book Cost	68	72	4	5.9%	Labor cost increased	
Plan Check (per Sheet)	487	517	30	6.2%	Labor cost increased	
As-Built Deposit (per Sheet)	469	497	28	6.0%	Labor cost increased	
Refundable Amount (per Sheet)	469	497	28	6.0%	Labor cost increased	
Construction Summary	1,771	1,873	102	5.8%	Labor cost increased	
Water Availability Letter	295	314	19	6.4%	Labor cost increased	
Water Availability Letter Update	137	146	9	6.6%	Labor cost increased	
Private Ownership Agreement	825	875	50	6.1%	Labor cost increased	
Grant of Right of Way (to Public)	577	779	202	35.0%	Labor cost and time increased	
Quitclaim/Cancellation of Recorded Documents	700	910	210	30.0%	Labor cost and time increased	
Encroachment Permit	573	808	235	41.0%	Labor cost and time increased	
Joint Use Agreement	412	868	456	110.7%	Labor cost and time increased	
Exchange Meter Agreement	410	436	26	6.3%	Labor cost increased	
Fire Flow Analysis (Only)	231	246	15	6.5%	Labor cost increased	
Annexation Fee (per Acre)	6,867	7,275	408	5.9%	Net asset value adjusted for inflation	
Annexation/Administration - VID Not Conducting Agency	2,280	2,425	145	6.4%	Labor cost increased	
Annexation/Administration - VID Conducting Agency	2,280	2,425	145	6.4%	Labor cost increased	
Annexation/Administration - VID Conducting Reorganization	2,280	2,425	145	6.4%	Labor cost increased	
Detachment Fee (per Acre)	-	-	-		No change	
Detachment/Administration - VID Conducting Agency	2,280	2,425	145	6.4%	Labor cost increased	
Detachment/Administration - VID Not Conducting Agency	2,280	2,425	145	6.4%	Labor cost increased	
5/8" Capacity Fee	<i>Current # of meters:</i> 5,551	4,205	5,142	937	22.3%	
3/4" Capacity Fee	<i>Current # of meters:</i> 17,000	6,308	7,713	1,405	22.3%	
1" Capacity Fee	<i>Current # of meters:</i> 2,880	10,514	12,855	2,341	22.3%	
1 1/2" Capacity Fee	<i>Current # of meters:</i> 1,318	21,027	25,709	4,682	22.3%	Vista Flume Replacement cost increased from \$50 million to \$120 million, which accounts for 80% of the increase; the balance is associated with inflationary adjustments to other infrastructure values
2" Capacity Fee	<i>Current # of meters:</i> 883	33,644	41,135	7,491	22.3%	
3" Capacity Fee	<i>Current # of meters:</i> 55	67,288	82,270	14,982	22.3%	
4" Capacity Fee	<i>Current # of meters:</i> 23	105,137	128,546	23,409	22.3%	
6" Capacity Fee	<i>Current # of meters:</i> 13	210,275	257,093	46,818	22.3%	
8" Capacity Fee	<i>Current # of meters:</i> 2	336,440	411,349	74,909	22.3%	
10" Capacity Fee	<i>Current # of meters:</i> 1	483,632	591,314	107,682	22.3%	
12" Capacity Fee	<i>Current # of meters:</i> 0	904,181	1,105,500	201,319	22.3%	
Meter Service Lateral Inspection	641	748	107	16.7%	Labor cost and time increased	

**Vista Irrigation District
PROPOSED FEE SUMMARY
Effective: January 1, 2022**

	Current Fee	Proposed Fee	\$ Change	% Change	Comments
RPDA Inspection	578	614	36	6.2%	Labor cost increased
RPDA and Lateral Inspection Without Shutdown	1,334	1,418	84	6.3%	Labor cost increased
RPDA and Lateral Inspection With Shutdown	2,216	2,356	140	6.3%	Labor cost increased
Fire Hydrant Inspection	945	1,005	60	6.3%	Labor cost increased
Fire Hydrant and Lateral Inspection without Shutdown	1,701	1,809	108	6.3%	Labor cost increased
Fire Hydrant and Lateral Inspection with Shutdown	2,079	2,211	132	6.3%	Labor cost increased

Vista Irrigation District
PROPOSED FEE SUMMARY
Effective: January 1, 2022

	Current Fee	Proposed Fee	\$ Change	% Change	Comments
Customer Service Fees:					
Late Penalty	\$ 15	\$ 15	\$ -	0.0%	No change
Delinquent Door Hanger	66	71	5	7.6%	Labor cost increased
Delinquent Lock	153	161	8	5.2%	Labor cost increased
Delinquent Lock Hardship *	50	50	-	0.0%	No change
After Hours Lock or Unlock	167	176	9	5.4%	Labor cost increased
After Hours Unlock Hardship *	150	150	-	0.0%	No change
Broken Lock	167	176	9	5.4%	Labor cost increased
Pulled Meter	167	176	9	5.4%	Labor cost increased
Tax Roll	88	94	6	6.8%	Labor cost increased
Returned Check	36	38	2	5.6%	Labor cost increased
Voluntary Lock or Unlock	63	67	4	6.3%	Labor cost increased
Meter Bench Test	420	447	27	6.4%	Labor cost increased
5/8" Damaged Curb Stop	816	862	46	5.6%	Labor cost increased
3/4" Damaged Curb Stop	816	862	46	5.6%	Labor cost increased
1" Damaged Curb Stop	853	912	59	6.9%	Parts and labor costs increased
Water Conservation Fees:					
Second Water Citation within 12 Months	\$ 221	\$ 235	\$ 14	6.3%	Labor cost increased
Third Water Citation within 12 Months	442	471	29	6.6%	Labor cost increased
Four or More Water Citations within 12 Months	662	707	45	6.8%	Labor cost increased
1" and Smaller Flow Restrictor Installation & Removal	295	313	18	6.1%	Labor cost increased
1½" and 2" Flow Restrictor Installation & Removal	552	591	39	7.1%	Labor rate increased

* Hardship: 200% below the Federal Poverty Line

4.4 RATES, SERVICE CHARGES AND FEES

Adoption Date:	10/7/2020
Action:	Approved by the VID Board of Directors, Minute Order No. XX; Resolution XX

4.4.1 Purpose

The purpose of this policy is to establish water rates and service related charges for services provided by the District.

4.4.2 Water Rate Definitions

A. Billing Period

There are six Billing Periods per year, approximating two months each, which may vary by days from one period to another.

B. Service Charge

A flat charge to each account, based on meter size, which recovers the fixed costs of the District operations.

C. San Diego County Water Authority (CWA) Fee

A flat fee charged by the CWA to each account based on meter size, which recovers CWA's infrastructure access charge.

D. Willful Misrepresentation

Purposeful presentation of a material fact for the purpose of securing a rate, allotment or special benefit for an unqualified account.

4.4.3 Water Rates and Service Related Charges *(Revised 11-1-17; Resolution 17-40)*

A. Pass Through of Wholesale Water and Water-Related Service Fees and Charges

All San Diego County Water Authority (CWA) fees and charges for wholesale water and water-related services shall be passed through to Vista Irrigation District customers. The automatic pass through of costs is for a period of five years, terminating on October 18, 2022. These pass throughs shall be calculated by dividing the total billings from CWA for usage charges by the quantity of budgeted water sales.

B. Annual Water Rate Adjustment

Effective each July 1, the District’s water rates will be adjusted to reflect inflationary costs. Such increases shall be calculated as an increase equal to the amount of the increase in the U.S. Department of Labor’s Consumer Price Index – All Urban Consumers – San Diego, California for the previous calendar year ended. These adjustments shall be reflected on invoices sent on or after July 1 of each of the following years: 2018, 2019, 2020, 2021, and 2022.

C. Water Rate Structure

The District has established a water rate structure consisting of three tiers for all water usage except for participants in the Special Agricultural Water Rate (SAWR). Participants in SAWR will be billed at a flat rate. Monthly water allocations for the three tiered rates will be determined by meter size according to the following table.

<u>Meter Size</u>	<u>Monthly Allocation</u>		
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>
5/8"	0-7	8-42	43+
3/4"	0-10	11-60	61+
1"	0-25	26-150	151+
1 1/2"	0-50	51-300	301+
2"	0-80	81-480	481+
3"	0-160	161-960	961+
4"	0-250	251-1,500	1,501+
6"	0-500	501-3,000	3,001+
8"	0-800	801-4,800	4,801+
10"	0-1,150	1,151-6,900	6,901+

D. Water Usage Charge

Water use will be charged according to the following table, however the Tier 3 rate will only be imposed during times of water delivery cutbacks imposed by the San Diego County Water Authority. When no water delivery cutbacks are imposed by the Water Authority, Tier 3 usage will be billed at the Tier 2 rate.

<u>Tier</u>	<u>Rate Per Unit*</u>
Tier 1	\$ 4.44
Tier 2	4.98
Tier 3**	4.98

Agricultural Water Programs

<u>Program</u>	<u>Rate Per Unit*</u>
SAWR	\$ 3.91
Domestic usage	4.76

* 1 unit = 748 Gallons

** Tier 3 usage will be billed at the tier 2 rate when no delivery cutbacks are imposed.

E. Service Charge

<u>Meter Size</u>	<u>Monthly Charge</u>
5/8"	\$31.06
3/4" or 3/4" x 1"	40.97
1"	60.54
1 1/2"	109.89
2"	168.89
3"	326.30
4"	503.27
6"	1,191.88
8"	1,585.55
10"	2,372.57

F. San Diego County Water Authority (CWA) Fee

<u>Meter Size</u>	<u>Monthly Charge</u>
5/8"	\$4.24
3/4" or 3/4" x 1"	4.24
1"	6.78
1 1/2"	12.72
2"	22.05
3"	40.70
4"	69.54
6"	127.20
8"	220.48
10"	330.72

G. Locked Meters

The Service Charge and other fixed charges on locked meters shall be twenty-five percent (25%) of the regular charges for that account.

H. Construction Water

All construction water delivered via a construction meter shall be billed at the highest water rate tier and applicable Service Charge.

I. Fire Connection Services

Fire protection connection services, both metered and unmetered, shall be charged the Service Charge applicable to a 5/8" meter. All water used through the detector meter or a metered connection shall be billed at the Water Usage Charge for water.

J. Agricultural Water Programs

A discounted Water Usage Charge will be applied to each individual qualifying agricultural account in an amount equal to the agricultural water rate and/or other reduced charges from the San Diego County Water Authority (CWA). The District will use a melded rate, based on the agricultural water rates and other reduced charges for treated and untreated water, as the discount. Adjustments to the agricultural program rates will be concurrent with any adjustments to CWA agricultural water rates and other charges for treated and untreated water. Resolution Nos. 10-43 and 12-35 are hereby made a part of these Rules and Regulations by reference.

4.4.4 Service Related Charges

A. Non-Scheduled or Special Meter Readings

When requested by a customer, the District will make a special reading of a meter. For water billings based upon special readings, the above Service Charge and other fixed charges, and the Billing Period will be divided by the number of days in that billing period. The Service Charge and other fixed charges to be billed will be based on the number of days that the customer has received service since the last regularly scheduled meter reading. The same method will be used in prorating the number of units in all rate tiers.

B. Meter Bench Test

When requested by a customer, the District will bench test or, in the case of large meters, trailer test meters at a cost of \$~~44720~~.00 per test.

C. Ownership of Fire Hydrants

The VID entered into agreements with the City of Vista and the Vista Fire Protection District concerning the installation and maintenance of fire hydrants. These agreements are incorporated into these Rules and Regulations by this reference. The main segments of the agreement require VID to supply water at no charge for fire suppression and training and to relocate, reconstruct or replace fire hydrants at its expense. VID is responsible for the cost of all fire hydrant repairs and maintenance, including those brought about by traffic accidents or vandalism. Minor maintenance is the responsibility of

the Fire Agency, as is annual inspections. This agreement is renewed yearly and may be canceled with a 30-day written notification by any of the parties.

D. Service Installations During Construction (Construction Meters)

1. 1" Construction Meters with Backflow Device

1" Construction Meters with Backflow Device may be issued to the applicant for a maximum of 30 days. The 1" Construction Meter with Backflow Device without a spanner wrench shall require a \$1,104068.00 deposit, of which \$63445.00 is refundable upon return of the meter in good condition within 35 days. The 1" Construction Meter with Backflow Device and a spanner wrench shall require a \$1,124088.00 deposit, of which \$65034.00 is refundable upon return of the meter and spanner wrench in good condition within 35 days. Water usage shall not be billed, but shall be deducted from the refundable deposit at the then current domestic water rate. The cost of necessary repairs to the meter will also be deducted from the deposit. The refund will be forfeited if the meter is not returned within 35 days.

2. 3" Construction Meters with Backflow Device (For a maximum of one year; new application required after one year)

A \$4,012438.00 deposit shall be required on all construction meters with backflow device, \$2,729867.00 of the deposit is refundable upon return of the meter and backflow device in good condition. All construction water shall be billed at the highest water rate tier and applicable Service Charge. Moving a construction meter and backflow device from one location to another shall cost \$17968.00 per move. The charge for an unauthorized construction meter and backflow device move shall be \$35535.00. The meter and backflow device may be recalled for repeated offenses. Resetting the pressure-sustaining valve shall cost \$21200.00. Developers must use construction meters and backflow devices for landscaping, road grading or construction purposes. Prior to placing the new water system in service, construction water must be obtained from a construction meter served by the existing water distribution system. When the new water distribution system has progressed to the point that it may be placed into service, all service outlets shall be locked. The developer may then make application for subdivision construction water for on-site work.

3. Subdivision Construction Meters

An \$8,83027.00 deposit shall be required on a Subdivision Construction Meter. \$2,05737.00 of that deposit is retained for administration and testing for a net refundable deposit of \$6,77390.00 if the meter is returned in good condition.

4.4.5 Administrative/Document Fees

The following fees shall be charged to customers and/or applicants where applicable:

Annexations (Administrative Fee)	
VID is Conducting Agency for Reorganization	\$ 2, 425280 .00
VID is Conducting Agency	\$ 2, 425280 .00
VID is Not Conducting Agency	\$ 2, 425280 .00
Construction Contract (Preparation Fee)	\$ 1, 873771 .00
Detachments (Administrative Fee)	
VID is Conducting Agency	\$ 2, 425280 .00
VID is Not Conducting Agency	\$ 2, 425280 .00
Grant of Right of Way (Document)	\$ 779577 .00
Private Ownership Agreement (Document)	\$ 87525 .00
Quitclaim/Cancellation of Recorded Documents	\$ 910700 .00
Encroachment Permit	\$ 808573 .00
Joint Use Agreement	\$ 868412 .00
Exchange Meter Agreement	\$ 43610 .00
Water Availability Letter Update	\$ 146137 .00
Water Availability Letter	\$ 314295 .00

4.4.6 Annexation/Detachment (Change of Boundaries) Per Acre Fees

A. Annexation Fees (See Sec. 3.1)

\$~~7,2756,867~~.00 per acre.

B. Detachment Fee (See Sec. 3.1)

\$0 per acre

4.4.7 Backflow Device Charges

New backflow device installations will be investigated and monitored with a set-up fee of \$~~26852~~.00. The District will not be responsible for testing and repairs to such devices once they are entered on the monitoring system. (See "Cross Connection Control," Section 6.3.)

4.4.8 Collection of Connection Fees

For water meters purchased on or after January 1, 2018 that abut an existing water main or are determined to be a "Permanent Offsite Service" per Section 3.8.6 (Temporary and Permanent Offsite Water Services), the cost of connecting service is included as part of the "Capacity Fee" established in Section 4.4.16.

Connection fees shall be collected for the following cases:

A. Temporary Offsite Service (see Section 3.8.6)

In addition to the charges otherwise provided by these regulations, the cost for providing a Temporary Offsite Service will be \$~~7,863,718~~.00, plus an additional charge of \$~~7162~~.00 per foot of frontage.

The cost of permit associated with a Temporary Offsite Service is dependent upon its jurisdiction and will be determined at the time of its application.

B. Permanent Water Service resulting from a Temporary Service Agreement (TSA)

Conversion from a temporary offsite service to a permanent onsite service to satisfy the terms and conditions of a TSA shall be \$~~8,773,418~~.00 plus an additional charge of \$~~7162~~.00 per foot of frontage.

Conversion from a temporary offsite service to a permanent onsite service excluding private plumbing tieback to satisfy the terms and conditions of a TSA shall be \$~~7,153,798~~.00 plus an additional charge of \$~~7162~~.00 per foot of frontage.

The cost of permit associated with a Permanent Water Service resulting from a Temporary Service Agreement (TSA) is dependent upon its jurisdiction and will be determined at the time of its application.

C. Connection to “Pipeline Extensions Constructed by Developers” (See Section 3.8.7 C).

Connection fee shall be established in a payback agreement between the District and Developer.

4.4.9 Engineering Service Fees

A. Hydraulic Analysis with Schematic Layout

Upon request by landowner or his agent, the District shall perform a hydraulic analysis to determine required facilities, including pipeline sizes, and shall provide applicant with a schematic layout of required facilities to serve the proposed project. The cost for providing hydraulic analysis with schematic layout is \$~~1,140,788~~.00.

B. Statement of Cost

After the hydraulic analysis with schematic layout has been done by the District, upon request by landowner or his agent, the District will provide a statement of cost which shall provide the applicant with a detailed cost of constructing said facilities using District forces. The cost for providing a statement of cost will be \$503473.00. The statement of cost is effective for 30 days.

C. Updated Statement of Cost

After 30-days have elapsed, an updated statement of cost will be required. The cost for an updated statement of cost will be \$22411.00.

D. Fire Flow Analysis

The cost for providing fire flow analysis only will be \$24631.00.

E. Plan Check

The District will check all improvement plans, and if acceptable, will approve said improvement plans. The fee for plan checking will be \$517487.00 per sheet excluding all sheets not showing water lines or appurtenances.

F. As-Built Drawings

The District requires all final As-Built drawings to be submitted at the end of the project. A deposit of \$49769.00 per sheet is collected at the beginning of the project. After acceptance of As-Built drawings and the project by the District, the deposit will be refunded.

G. Meter Service Lateral Inspection

The cost for inspecting a service lateral connected to our main by an outside contractor will be \$748641.00.

H. RPDA Inspection

The cost associated with inspection of a Reduced Pressure Detector Assembly (RPDA) is as follows:

RPDA inspection	\$ <u>614578</u> .00
RPDA and lateral inspection without shutdown	\$ <u>1,418334</u> .00
RPDA and lateral inspection with shutdown	\$ <u>2,356216</u> .00

I. Water Supply Assessment

The fee for preparation of a water supply study is variable and is dependent upon the number of hours spent by District staff preparing the study. The charge will be based on actual costs.

4.4.10 Fire Hydrant Installations

Full installations include up to 30 feet of pipe. Any pipe required for the installation over and above the 30 feet allowed in the flat rate for full installation shall be at additional cost. The cost of permit associated with fire hydrant installations will be determined at the time of application. The cost of permit is dependent upon its jurisdiction.

Full Installation	\$ 18,8007,041.00
Upgrade	\$ 7,0156,519.00

The cost associated with inspection of a Fire Hydrant is as follows:

Fire Hydrant inspection	\$ 1,005945.00
Fire Hydrant and lateral inspection without shutdown	\$ 1,809701.00
Fire Hydrant and lateral inspection with shutdown	\$ 2,211079.00

4.4.11 Fire Service

4" Fire Service Connection	\$ 12,7801,723.00
6" Fire Service Connection	\$ 13,2802,303.00
8" Fire Service Connection	\$ 14,5673,256.00
10" Fire Service Connection	\$ 16,1034,824.00

Fire service connection installations include up to 30 feet of pipe. Any pipe required for the installation over and above the 30 feet allowed shall be at an additional cost. When an in-line gate valve, air vent and blow-off is required, a fee of \$4,403035.00 will be charged. The cost of permit associated with fire service connections will be determined at the time of application. The cost of permit is dependent upon its jurisdiction.

4.4.12 Water Meter Fees

A. Water Meter Fees

5/8" Hook-on Meter	\$ 65577.00
Service Outlet	\$ 5,5794,975.00
Full Installation	\$ 6,2345,652.00

The smallest meter size allowable shall be a 3/4" meter. A 5/8" meter is only allowed for installation in condominiums, and mobile home subdivisions where each unit is metered separately or in similar low demand non-landscaping uses as approved by the District General Manager.

(Resolution No. 4191, Last Revision 2/16/83: Resolution 83-15)

3/4" Hook-on Meter	\$ 66480.00
Service Outlet	\$ 5,5794,975.00
Full Installation	\$ 6,2435,655.00
1" Hook-on Meter	\$ 817795.00
Service Outlet	\$ 5,5794,975.00
Full Installation	\$ 6,3965,770.00
1 1/2" Hook-on Meter	\$ 1,901857.00
Service Outlet	\$ 6,5085,845.00
Full Installation	\$ 8,4097,702.00
2" Hook-on Meter	\$ 1,752689.00
Service Outlet	\$ 6,5085,845.00
Full Installation	\$ 8,2607,534.00
3" or larger sized meters by estimate only	

The cost of permit associated with water meter installations will be determined at the time of application. The cost of permit is dependent upon its jurisdiction.

B. Cost for Reduction of Meter Size

Reduction of a meter size shall be performed by the District upon written request by the owner. The owner shall be responsible for the cost of labor and parts associated with the reduction of a meter size. However, there shall be no charge to the owner for the cost of the new meter. Owner shall retain equity in the meter based on the smaller size.

The costs associated with reduction of a meter size are as follows:

Meter downsize from 3/4"	\$ 55825.00
Meter downsize from 1"	\$ 55825.00
Meter downsize from 1 1/2"	\$ 99450.00
Meter downsize from 2"	\$ 1,26202.00

The reduction of a meter size from 3" or larger sized meter is by estimate only.

C. Refunds for Discontinued Meters

There are no refunds for discontinued meters.

D. Collection of Capacity Fee on Behalf of the San Diego County Water Authority

This District will not accept any otherwise eligible application for meter service installation unless it is accompanied by payment of the applicable

capacity fee imposed by the San Diego County Water Authority. These fees are in accordance with the schedule authorized by the San Diego County Water Authority, which may be changed by that agency from time to time. This District is acting only as a collection agent for these fees.

E. Cancellation of Meter Application or Service Change

The cost for canceling a meter application or service change after it has been submitted and processed will be \$~~27263~~.00.

F. Service Lateral Termination

The cost for terminating a meter service lateral will be \$~~2,0801,914~~.00.

G. Commercial Irrigation Service Conversion

The cost for converting an existing domestic commercial service lateral into a dedicated combination irrigation and domestic service will be \$~~2,0721,954~~.00.

RESOLUTION NO. 21-XX

RESOLUTION OF THE BOARD OF DIRECTORS
OF VISTA IRRIGATION DISTRICT
AMENDING CERTAIN PROVISIONS OF THE DISTRICT'S RULES AND REGULATIONS
RELATIVE TO FEES AND CHARGES OTHER THAN WATER RATES

WHEREAS the District has performed detailed cost studies on all fees and charges; and

WHEREAS, these cost studies consist of over 530 pages of analyses and were available to the public for their review as far back as September 21, 2021; and

WHEREAS, the fees adopted in the Resolution supersede any previous fees adopted; and

WHEREAS, it is necessary to make changes to said fees and charges due to inflationary factors and the detailed analyses of the cost make-up of each fee; and

WHEREAS, on November 3, 2021, the Board of Directors of the Vista Irrigation District conducted a noticed public hearing on proposed increases and decreases to certain fees and charges other than water rates, and considered the evidence and testimony presented at the public hearing; and

WHEREAS, after conducting the public hearing, the Board of Directors finds that the proposed fee increases were developed in accordance with California law, and based on the evidence provided to the Board of Directors at that hearing, including the foregoing fee studies (which are a part of the record of this proceeding), the Board determined that the increases and decreases to the fees contemplated in this resolution do not result in amounts that exceed the estimated amount required to provide the service for which the fee charge is levied; and

WHEREAS, based upon the analysis and information provided by District staff, the Board of Directors finds and determines that, with respect to each fee or charge proposed to be increased or decreased, the proposed fee or charge does not exceed the reasonable cost of providing the service for which the fee is charged.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of Vista Irrigation District does hereby find and declare as follows:

SECTION 1. **Recitals.** The foregoing recitals are true and correct.

SECTION 2. **Effective Date.** Upon approval by the Board of Directors, these fees and charges will be effective January 1, 2022.

SECTION 3. **Additional Findings.** The Board of Directors hereby makes the additional findings:

1. The fees and charges adopted or amended by this Resolution are for the purpose of:
 - a. Meeting ongoing operating and maintenance expenses of the District, including employee wage rates and fringe benefits and the purchase of supplies, equipment, materials or services necessary for operation and maintenance activities of the District;
 - b. Meeting the financial requirements of the District; and
 - c. Maintaining the existing levels of services to the lands, residents and water users within the District's existing service area.
2. These fees and charges cover the cost of the District providing the specified services set forth herein, and/or cover the costs of the impacts to the District from the specified activities described in the Resolution.

SECTION 4. **California Environmental Quality Act.** Based upon the foregoing findings, the adoption or amendment of the fees and charges in this Resolution are exempt from the California Environmental Quality Act, Public Resources Code Section 21000, et seq. ("CEQA"), pursuant to State CEQA Guidelines §15273. District staff is authorized to file a Notice of Exemption in accordance with CEQA with respect to the adoption of this Resolution.

SECTION 5 **Notice.** The Notice of Public Hearing was duly published in on October 25, 2021 and October 31, 2021 in The San Diego Union-Tribune, a newspaper of general circulation in the District's service area. In addition, in accordance with Government Code § 66016, Vista Irrigation District has made available public data demonstrating the need for proposed fees and charges to be increased or decreased, and such information shall continue to be made available to any interested party at the District's headquarters, located at 1391 Engineer Street, Vista, CA 92081.

SECTION 6. **Amendment to Rules and Regulations.** Based on the foregoing conclusions and evidence, the Board of Directors of Vista Irrigation District does hereby amend certain provisions of the District's Rules and Regulations as follows:

4.4 RATES, SERVICE CHARGES AND FEES

4.4.1 Purpose

The purpose of this policy is to establish water rates and service related charges for services provided by the District.

4.4.2 Water Rate Definitions

A. Billing Period

There are six Billing Periods per year, approximating two months each, which may vary by days from one period to another.

B. Service Charge

A flat charge to each account, based on meter size, which recovers the fixed costs of the District operations.

C. San Diego County Water Authority (CWA) Fee

A flat fee charged by the CWA to each account based on meter size, which recovers CWA's infrastructure access charge.

D. Willful Misrepresentation

Purposeful presentation of a material fact for the purpose of securing a rate, allotment or special benefit for an unqualified account.

4.4.3 Water Rates and Service Related Charges *(Revised 11-1-17; Resolution 17-40)*

A. Pass Through of Wholesale Water and Water-Related Service Fees and Charges

All San Diego County Water Authority (CWA) fees and charges for wholesale water and water-related services shall be passed through to Vista Irrigation District customers. The automatic pass through of costs is for a period of five years, terminating on October 18, 2022. These pass throughs shall be calculated by dividing the total billings from CWA for usage charges by the quantity of budgeted water sales.

B. Annual Water Rate Adjustment

Effective each July 1, the District’s water rates will be adjusted to reflect inflationary costs. Such increases shall be calculated as an increase equal to the amount of the increase in the U.S. Department of Labor’s Consumer Price Index – All Urban Consumers – San Diego, California for the previous calendar year ended. These adjustments shall be reflected on invoices sent on or after July 1 of each of the following years: 2018, 2019, 2020, 2021, and 2022.

C. Water Rate Structure

The District has established a water rate structure consisting of three tiers for all water usage except for participants in the Special Agricultural Water Rate (SAWR). Participants in SAWR will be billed at a flat rate. Monthly water allocations for the three tiered rates will be determined by meter size according to the following table.

<u>Meter Size</u>	<u>Monthly Allocation</u>		
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 3</u>
5/8"	0-7	8-42	43+
3/4"	0-10	11-60	61+
1"	0-25	26-150	151+
1 1/2"	0-50	51-300	301+
2"	0-80	81-480	481+
3"	0-160	161-960	961+
4"	0-250	251-1,500	1,501+
6"	0-500	501-3,000	3,001+
8"	0-800	801-4,800	4,801+
10"	0-1,150	1,151-6,900	6,901+

D. Water Usage Charge

Water use will be charged according to the following table, however the Tier 3 rate will only be imposed during times of water delivery cutbacks imposed by the San Diego County Water Authority. When no water delivery cutbacks are imposed by the Water Authority, Tier 3 usage will be billed at the Tier 2 rate.

<u>Tier</u>	<u>Rate Per Unit*</u>
Tier 1	\$ 4.44
Tier 2	4.98
Tier 3**	4.98

Agricultural Water Programs

<u>Program</u>	<u>Rate Per Unit*</u>
SAWR	\$ 3.91
Domestic usage	4.76

* 1 unit = 748 Gallons

** Tier 3 usage will be billed at the tier 2 rate when no delivery cutbacks are imposed.

E. Service Charge

<u>Meter Size</u>	<u>Monthly Charge</u>
5/8"	\$31.06
3/4" or 3/4" x 1"	40.97
1"	60.54
1 1/2"	109.89
2"	168.89
3"	326.30
4"	503.27
6"	1,191.88
8"	1,585.55
10"	2,372.57

F. San Diego County Water Authority (CWA) Fee

<u>Meter Size</u>	<u>Monthly Charge</u>
5/8"	\$4.24
3/4" or 3/4" x 1"	4.24
1"	6.78
1 1/2"	12.72
2"	22.05
3"	40.70
4"	69.54
6"	127.20
8"	220.48
10"	330.72

G. Locked Meters

The Service Charge and other fixed charges on locked meters shall be twenty-five percent (25%) of the regular charges for that account.

H. Construction Water

All construction water delivered via a construction meter shall be billed at the highest water rate tier and applicable Service Charge.

I. Fire Connection Services

Fire protection connection services, both metered and unmetered, shall be charged the Service Charge applicable to a 5/8" meter. All water used through the detector meter or a metered connection shall be billed at the Water Usage Charge for water.

J. Agricultural Water Programs

A discounted Water Usage Charge will be applied to each individual qualifying agricultural account in an amount equal to the agricultural water rate and/or other reduced charges from the San Diego County Water Authority (CWA). The District will use a melded rate, based on the agricultural water rates and other reduced charges for treated and untreated water, as the discount. Adjustments to the agricultural program rates will be concurrent with any adjustments to CWA agricultural water rates and other charges for treated and untreated water. Resolution Nos. 10-43 and 12-35 are hereby made a part of these Rules and Regulations by reference.

4.4.4 Service Related Charges

A. Non-Scheduled or Special Meter Readings

When requested by a customer, the District will make a special reading of a meter. For water billings based upon special readings, the above Service Charge and other fixed charges, and the Billing Period will be divided by the number of days in that billing period. The Service Charge and other fixed charges to be billed will be based on the number of days that the customer has received service since the last regularly scheduled meter reading. The same method will be used in prorating the number of units in all rate tiers.

B. Meter Bench Test

When requested by a customer, the District will bench test or, in the case of large meters, trailer test meters at a cost of \$447.00 per test.

C. Ownership of Fire Hydrants

The VID entered into agreements with the City of Vista and the Vista Fire Protection District concerning the installation and maintenance of fire hydrants. These agreements are incorporated into these Rules and Regulations by this reference. The main segments of the agreement require VID to supply water at no charge for fire suppression and training and to relocate, reconstruct or replace fire hydrants at its expense. VID is responsible for the cost of all fire hydrant repairs and maintenance, including those brought about by traffic accidents or vandalism. Minor maintenance is the responsibility of

the Fire Agency, as is annual inspections. This agreement is renewed yearly and may be canceled with a 30-day written notification by any of the parties.

D. Service Installations During Construction (Construction Meters)

1. 1" Construction Meters with Backflow Device

1" Construction Meters with Backflow Device may be issued to the applicant for a maximum of 30 days. The 1" Construction Meter with Backflow Device without a spanner wrench shall require a \$1,104.00 deposit, of which \$634.00 is refundable upon return of the meter in good condition within 35 days. The 1" Construction Meter with Backflow Device and a spanner wrench shall require a \$1,124.00 deposit, of which \$650.00 is refundable upon return of the meter and spanner wrench in good condition within 35 days. Water usage shall not be billed, but shall be deducted from the refundable deposit at the then current domestic water rate. The cost of necessary repairs to the meter will also be deducted from the deposit. The refund will be forfeited if the meter is not returned within 35 days.

2. 3" Construction Meters with Backflow Device (For a maximum of one year; new application required after one year)

A \$4,012.00 deposit shall be required on all construction meters with backflow device, \$2,729.00 of the deposit is refundable upon return of the meter and backflow device in good condition. All construction water shall be billed at the highest water rate tier and applicable Service Charge. Moving a construction meter and backflow device from one location to another shall cost \$179.00 per move. The charge for an unauthorized construction meter and backflow device move shall be \$355.00. The meter and backflow device may be recalled for repeated offenses. Resetting the pressure-sustaining valve shall cost \$212.00. Developers must use construction meters and backflow devices for landscaping, road grading or construction purposes. Prior to placing the new water system in service, construction water must be obtained from a construction meter served by the existing water distribution system. When the new water distribution system has progressed to the point that it may be placed into service, all service outlets shall be locked. The developer may then make application for subdivision construction water for on-site work.

3. Subdivision Construction Meters

An \$8,830.00 deposit shall be required on a Subdivision Construction Meter. \$2,057.00 of that deposit is retained for administration and testing for a net refundable deposit of \$6,773.00 if the meter is returned in good condition.

4.4.5 Administrative/Document Fees

The following fees shall be charged to customers and/or applicants where applicable:

Annexations (Administrative Fee)	
VID is Conducting Agency for Reorganization	\$ 2,425.00
VID is Conducting Agency	\$ 2,425.00
VID is Not Conducting Agency	\$ 2,425.00
Construction Contract (Preparation Fee)	\$ 1,873.00
Detachments (Administrative Fee)	
VID is Conducting Agency	\$ 2,425.00
VID is Not Conducting Agency	\$ 2,425.00
Grant of Right of Way (Document)	\$ 779.00
Private Ownership Agreement (Document)	\$ 875.00
Quitclaim/Cancellation of Recorded Documents	\$ 910.00
Encroachment Permit	\$ 808.00
Joint Use Agreement	\$ 868.00
Exchange Meter Agreement	\$ 436.00
Water Availability Letter Update	\$ 146.00
Water Availability Letter	\$ 314.00

4.4.6 Annexation/Detachment (Change of Boundaries) Per Acre Fees

A. Annexation Fees (See Sec. 3.1)

\$7,275.00 per acre.

B. Detachment Fee (See Sec. 3.1)

\$0 per acre

4.4.7 Backflow Device Charges

New backflow device installations will be investigated and monitored with a set-up fee of \$268.00. The District will not be responsible for testing and repairs to such devices once they are entered on the monitoring system. (See "Cross Connection Control," Section 6.3.)

4.4.8 Collection of Connection Fees

For water meters purchased on or after January 1, 2018 that abut an existing water main or are determined to be a "Permanent Offsite Service" per Section 3.8.6 (Temporary and Permanent Offsite Water Services), the cost of connecting service is included as part of the "Capacity Fee" established in Section 4.4.16.

Connection fees shall be collected for the following cases:

A. Temporary Offsite Service (see Section 3.8.6)

In addition to the charges otherwise provided by these regulations, the cost for providing a Temporary Offsite Service will be \$7,863.00, plus an additional charge of \$71.00 per foot of frontage.

The cost of permit associated with a Temporary Offsite Service is dependent upon its jurisdiction and will be determined at the time of its application.

B. Permanent Water Service resulting from a Temporary Service Agreement (TSA)

Conversion from a temporary offsite service to a permanent onsite service to satisfy the terms and conditions of a TSA shall be \$8,773.00 plus an additional charge of \$71.00 per foot of frontage.

Conversion from a temporary offsite service to a permanent onsite service excluding private plumbing tieback to satisfy the terms and conditions of a TSA shall be \$7,153.00 plus an additional charge of \$71.00 per foot of frontage.

The cost of permit associated with a Permanent Water Service resulting from a Temporary Service Agreement (TSA) is dependent upon its jurisdiction and will be determined at the time of its application.

C. Connection to “Pipeline Extensions Constructed by Developers” (See Section 3.8.7 C).

Connection fee shall be established in a payback agreement between the District and Developer.

4.4.9 Engineering Service Fees

A. Hydraulic Analysis with Schematic Layout

Upon request by landowner or his agent, the District shall perform a hydraulic analysis to determine required facilities, including pipeline sizes, and shall provide applicant with a schematic layout of required facilities to serve the proposed project. The cost for providing hydraulic analysis with schematic layout is \$1,140.00.

B. Statement of Cost

After the hydraulic analysis with schematic layout has been done by the District, upon request by landowner or his agent, the District will provide a statement of cost which shall provide the applicant with a detailed cost of constructing said facilities using District forces. The cost for providing a statement of cost will be \$503.00. The statement of cost is effective for 30 days.

C. Updated Statement of Cost

After 30-days have elapsed, an updated statement of cost will be required. The cost for an updated statement of cost will be \$224.00.

D. Fire Flow Analysis

The cost for providing fire flow analysis only will be \$246.00.

E. Plan Check

The District will check all improvement plans, and if acceptable, will approve said improvement plans. The fee for plan checking will be \$517.00 per sheet excluding all sheets not showing water lines or appurtenances.

F. As-Built Drawings

The District requires all final As-Built drawings to be submitted at the end of the project. A deposit of \$497.00 per sheet is collected at the beginning of the project. After acceptance of As-Built drawings and the project by the District, the deposit will be refunded.

G. Meter Service Lateral Inspection

The cost for inspecting a service lateral connected to our main by an outside contractor will be \$748.00.

H. RPDA Inspection

The cost associated with inspection of a Reduced Pressure Detector Assembly (RPDA) is as follows:

RPDA inspection	\$ 614.00
RPDA and lateral inspection without shutdown	\$ 1,418.00
RPDA and lateral inspection with shutdown	\$ 2,356.00

I. Water Supply Assessment

The fee for preparation of a water supply study is variable and is dependent upon the number of hours spent by District staff preparing the study. The charge will be based on actual costs.

4.4.10 Fire Hydrant Installations

Full installations include up to 30 feet of pipe. Any pipe required for the installation over and above the 30 feet allowed in the flat rate for full installation shall be at additional cost. The cost of permit associated with fire hydrant installations will be determined at the time of application. The cost of permit is dependent upon its jurisdiction.

Full Installation	\$ 18,800.00
Upgrade	\$ 7,015.00

The cost associated with inspection of a Fire Hydrant is as follows:

Fire Hydrant inspection	\$ 1,005.00
Fire Hydrant and lateral inspection without shutdown	\$ 1,809.00
Fire Hydrant and lateral inspection with shutdown	\$ 2,211.00

4.4.11 Fire Service

4" Fire Service Connection	\$ 12,780.00
6" Fire Service Connection	\$ 13,280.00
8" Fire Service Connection	\$ 14,567.00
10" Fire Service Connection	\$ 16,103.00

Fire service connection installations include up to 30 feet of pipe. Any pipe required for the installation over and above the 30 feet allowed shall be at an additional cost. When an in-line gate valve, air vent and blow-off is required, a fee of \$4,403.00 will be charged. The cost of permit associated with fire service connections will be determined at the time of application. The cost of permit is dependent upon its jurisdiction.

4.4.12 Water Meter Fees

A. Water Meter Fees

$\frac{5}{8}$ " Hook-on Meter	\$ 655.00
Service Outlet	\$ 5,579.00
Full Installation	\$ 6,234.00

The smallest meter size allowable shall be a $\frac{3}{4}$ " meter. A $\frac{5}{8}$ " meter is only allowed for installation in condominiums, and mobile home subdivisions where each unit is metered separately or in similar low demand non-landscaping uses as approved by the District General Manager.

(Resolution No. 4191, Last Revision 2/16/83: Resolution 83-15)

3/4" Hook-on Meter	\$ 664.00
Service Outlet	\$ 5,579.00
Full Installation	\$ 6,243.00
1" Hook-on Meter	\$ 817.00
Service Outlet	\$ 5,579.00
Full Installation	\$ 6,396.00
1 1/2" Hook-on Meter	\$ 1,901.00
Service Outlet	\$ 6,508.00
Full Installation	\$ 8,409.00
2" Hook-on Meter	\$ 1,752.00
Service Outlet	\$ 6,508.00
Full Installation	\$ 8,260.00
3" or larger sized meters by estimate only	

The cost of permit associated with water meter installations will be determined at the time of application. The cost of permit is dependent upon its jurisdiction.

B. Cost for Reduction of Meter Size

Reduction of a meter size shall be performed by the District upon written request by the owner. The owner shall be responsible for the cost of labor and parts associated with the reduction of a meter size. However, there shall be no charge to the owner for the cost of the new meter. Owner shall retain equity in the meter based on the smaller size.

The costs associated with reduction of a meter size are as follows:

Meter downsize from 3/4"	\$ 558.00
Meter downsize from 1"	\$ 558.00
Meter downsize from 1 1/2"	\$ 994.00
Meter downsize from 2"	\$ 1,262.00

The reduction of a meter size from 3" or larger sized meter is by estimate only.

C. Refunds for Discontinued Meters

There are no refunds for discontinued meters.

D. Collection of Capacity Fee on Behalf of the San Diego County Water Authority

This District will not accept any otherwise eligible application for meter service installation unless it is accompanied by payment of the applicable

capacity fee imposed by the San Diego County Water Authority. These fees are in accordance with the schedule authorized by the San Diego County Water Authority, which may be changed by that agency from time to time. This District is acting only as a collection agent for these fees.

E. Cancellation of Meter Application or Service Change

The cost for canceling a meter application or service change after it has been submitted and processed will be \$272.00.

F. Service Lateral Termination

The cost for terminating a meter service lateral will be \$2,080.00.

G. Commercial Irrigation Service Conversion

The cost for converting an existing domestic commercial service lateral into a dedicated combination irrigation and domestic service will be \$2,072.00.

PASSED AND ADOPTED by the following roll call vote of the Board of Directors for the Vista Irrigation District this 3rd day of November 2021.

AYES:
NOES:
ABSTAIN:
ABSENT:

Patrick H. Sanchez, President

ATTEST:

Lisa R. Soto, Secretary
Board of Directors



STAFF REPORT

Agenda Item: 8

Board Meeting Date: November 3, 2021
Prepared By: Randy Whitmann, Don Smith, Frank Wolinski & Marlene Kelleher
Approved By: Brett Hodgkiss

SUBJECT: DIVISION REPORTS

RECOMMENDATION: Note and file informational report.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: None.

SUMMARY: Previous month’s and anticipated activities are reported by each division.

ADMINISTRATION DIVISION

October

- Continued recruitments for Laborer Trainee and Construction Worker positions.
- Coordinated sexual harassment training for all employees.
- Coordinated lock out/tag out training for field personnel.
- Coordinated annual Employee Health and Wellness Fair.
- Submitted application to the State Water Resources Control Board for the California Water and Wastewater Arrearages Payment Program for outstanding customer balances for the period March 4, 2020 through June 15, 2021 in the amount of \$154,314.23.

November

- Begin recruitment for System Controls Supervisor position.
- Continue recruitments for Laborer Trainee and Construction Worker positions.
- Coordinate sexual harassment training for Board members and supervisory staff.

OPERATIONS & FIELD SERVICES

October

- Water Quality Calls/Incidents for October – received 15 odor calls as the result of a suspected algal bloom in Lake Dixon; source water changes were made to alleviate the aesthetic (non-health hazard) problem until the issue was resolved.
- Inspected and tested 29 new backflow devices that were integrated into the District’s cross-connection control program.
- Pechstein beam reinforcement project – Fabrication shop making eight intermediate beam reinforcement assemblies.
- Continued demolition and replacement of slate tile with concrete at south lobby entrance to District headquarters.
- Completed potholing on San Clemente Avenue to replace approximately 3,100’ feet of steel and AC pipe.
- Continued replacement of steel pipe on Mason Road – install approximately 1,350’ of 8-inch PVC, 10 services and one hydrant lateral. Approximately 90% complete.
- Continued mainline replacement of Nipponite and steel pipe on Vista Grande – install approximately 5,000’ of various sizes of PVC pipe, 37 services and 4 hydrant laterals. Approximately 55% complete.

November

- Continue Pechstein reservoir beam reinforcement project.
- Replace 6-inch meter and coordinate backflow installation at 1825 Knob Hill Road – Knob Hill Elementary School.
- Begin mainline replacement of Nipponite and steel pipe on San Clemente Avenue – install approximately 3,100’ of various sizes of PVC pipe, 29 services and 4 hydrant laterals.
- Continue mainline replacement of steel pipe on Mason Road – install approximately 1,350’ of 8-inch PVC, 10 services and one hydrant lateral.
- Continue mainline replacement of Nipponite and steel pipe on Vista Grande – install approximately 5,000’ of various sizes of PVC pipe, 37 services and 4 hydrant laterals.

Electrical Energy Use at VID Headquarters

September 2021

	Current Month Production	Average of Last 12 Months	Total, Fiscal Year-to-Date
Description	(kWh)	(kWh)	(kWh)
Solar Production (\$0.18 per kWh)	33,359	31,233	113,603
Power purchased from Direct Energy (\$0.13 per kWh)	13,047	11,733	32,270
TOTAL ELECTRICAL ENERGY USE	46,406	42,966	145,873

ENGINEERING DIVISION

October

- The District has replaced approximately 9.33 miles of Nipponite pipe since 2002. Of the 6.59 miles of Nipponite pipe remaining in the system, replacement of 0.85 miles is currently in design and 0.59 miles is in construction.
- The District has replaced approximately 3,030 feet (0.57 miles) of pipe (steel – 1,415 feet, PVC – 0 feet, non-Nipponite asbestos cement – 585 feet and Nipponite – 1,030 feet) in Fiscal Year 2022.
- Edgehill (E) Reservoir Replacement and Pump Station – began advertising for solicitation of bids for project construction.
- Flume Replacement Alignment Study – Brown and Caldwell continued coarse screening analysis of the six alignments.
- Deodar Reservoir Rehabilitation – began negotiating a design services scope of work and fee with Murray Smith.
- Projects along Flume
 - The Villages – 380 dwelling unit residential subdivision along Country Club Lane, between Nutmeg Street and Pamela Lane in Escondido. Project includes storm drain work along the Jones Siphon in addition to the relocation of an 18-inch transmission main feeding the Bennett service area. Project requires District review and approval of two tract maps, encroachment permit, joint use agreement, grant of right of way, improvement plan, and quitclaim and bill of sale. The Board has approved all items except the quitclaim and bill of sale.

November

- Mainline Replacement Projects in design (current projects): Lonsdale Ln.*, Plumosa Ave., Calle Maria, Via Christina, Rush Ave.*, Angeles Vista Dr., Portia Ave.*, Torano Dr., Lado De Loma Dr.*, Camino Culebra*, Camino Loma Verde*, Eddy Dr., Rancho Vista Rd., Mira Sol Dr., Camino Patricia, Camino Corto, Goetting Wy., Nevada Ave., N. Citrus Ave., Lemon Ave., Hillside Terrace, Mar Vista Dr., Miramar Dr., Buena Creek Rd., Rock Springs Rd. at Nordahl Rd., Estrelita Dr., Victory Dr. (Total length = 5.54 miles).

- Mainline Replacement Projects in planning (future projects): Queens Way, Alta Vista Dr., Catalina Ave.*, Friendly Dr.*, E. Vista Wy., Nordahl Rd.*, HN Line - Gopher Canyon Rd. to Fairview Dr., Buena Creek Rd.*, Robinhood Rd.*, Lower Ln.*, Easy St.*, West AB Line – Esplendido Ave. and Bella Vista Dr.*, Colavo Dr.*, Broadway*, Oak Dr.*, Olive Ave.*, Rancho Vista Rd., Bandini Pl., McGavran Dr., Oro Avo Dr., Shale Rock Rd., La Mirada Dr., Crescent Dr.*, Descanso Ave., San Clemente Ave.* (Total length = 9.46 miles).
- Edgehill (E) Reservoir Replacement and Pump Station – conclude advertising for solicitation of bids for project construction; bids are due on November 9, 2021.
- Flume Replacement Alignment Study – Brown and Caldwell to continue coarse screening analysis of the six alignments.
- Deodar Reservoir Rehabilitation – continue negotiating a design services scope of work and fee with Murray Smith.

*Nipponite pipe

WATER RESOURCES DIVISION
VID Water Production
September 2021

Description	Current Month Production		Average Production of Last 12 Months		Total Fiscal Year-to-Date
	(mgd)	(af)	(mgd)	(af)	(af)
VID's EVWTP Water Production					
Local Water	0.00	0.00	0.65	59.93	0.00
SDCWA Raw Water	13.13	1,209.00	9.45	885.31	3,872.80
Subtotal (EVWTP Water Production)	13.13	1,209.00	10.10	945.24	3,872.80
Oceanside Contract Water	1.25	114.80	1.00	92.24	157.00
SDCWA Treated Water	3.55	326.50	4.75	444.13	1,220.60
TOTAL WATER PRODUCTION	17.93	1,650.30	15.85	1,481.61	5,250.40

Lake Henshaw and Warner Ranch Wellfield statistics are summarized as follows:

Lake Henshaw

Storage as of October 25, 2021: 4,079 af (8% of 51,832 af capacity)
 Current releases: 0 cfs
 Change in storage for month of September: 42 af (loss)
 Total releases for month of September: 12 af (estimated leakage by valve)
 Hydrologic year-to-date rain total: 1.72 inches (October 25, 2021)
 Percent of yearly average rain: 7% (30-year average: 24.54 inches)
 Percent of year-to-date average rain: 92% (30-year average through September: 1.88 in.)

Warner Ranch Wellfield

Number of wells running in September: 12
 Total production for month of September: 613 af
 Average depth to water table (October): 80 ft (see attached historical water table chart)

October

- Performed sampling for Harmful Algal Blooms (HABs) in Lake Henshaw on September 27 and October 4, 12 and 18. Results for microcystin and anatoxin-a have been in the “Caution” advisory range. Henshaw releases have been suspended since July 9.
- Attended coordination meeting for San Pasqual Undergrounding Project abandonment and rehabilitation design.
- Participated in workshop to discuss long-term alternatives to manage HABs at Lake Henshaw and Lake Wohlford.
- Attended a stakeholder working group meeting on the North County Multiple Species Conservation Plan.

November

- Conduct tour of Lake Henshaw watershed for the consultant updating the Joint Escondido/District Watershed Sanitary Survey.

ATTACHMENTS: Lake Henshaw Resort, Inc., Activity Reports – August 2021
VID's Warner Wellfield – Water Table Depth vs. Monthly Wellfield Production

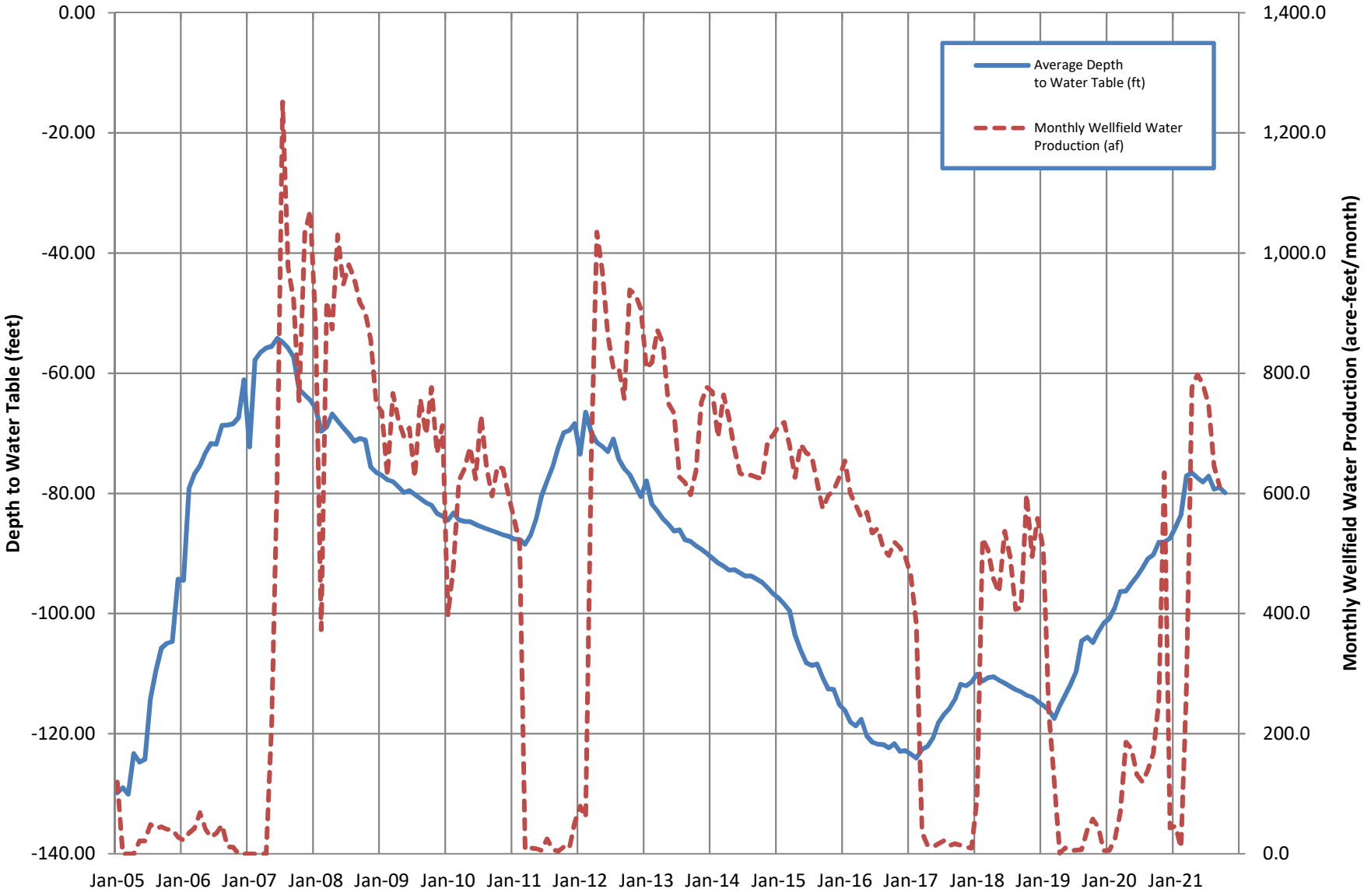


**LAKE HENSHAW RESORT, INC.
ACTIVITY REPORT
AS OF AUGUST 31, 2021**

	2020 Aug	2020 Sep	2020 Oct	2020 Nov	2020 Dec	2021 Jan	2021 Feb	2021 Mar	2021 Apr	2021 May	2021 Jun	2021 Jul	2021 Aug	12 MO AVG
Fishing Permits	712	543	480	302	162	246	180	243	948	681	587	500	585	455
Boat Launches	10	3	9	3	4	3	2	3	37	23	9	6	3	9
Motor Boats (full day rental)	37	38	21	8	11	8	6	13	46	51	51	53	49	30
Motor Boats (half day rental)	7	6	11	0	0	0	1	5	1	3	7	7	4	4
Campground/Head Count	790	1,660	492	297	132	126	34	220	462	1,857	964	1,821	1,205	773
Campground/Cars, Trucks, etc.	294	750	159	113	60	62	25	101	235	820	374	822	478	333
Campground/Recreational Vehicles	2	0	1	7	0	0	5	14	12	15	0	25	8	7
Mobile Home/Spaces	72	72	72	73	71	68	68	68	68	69	69	70	70	70
M.H.P. Daily (Visitors/Head Count)	6	8	8	14	12	12	0	0	0	0	0	0	0	5
M.H.P. (Residents/Head Count)	104	104	104	105	102	95	95	95	95	96	96	91	91	97
Storage	6	6	6	6	7	7	7	6	6	6	6	6	6	6
Cabins	262	184	135	137	132	76	55	133	185	143	170	169	191	143
Hunters	0	0	0	0	0	0	0	0	0	0	0	0	0	0

VID's Warner Wellfield

Water Table Depth vs. Monthly Wellfield Production





STAFF REPORT

Agenda Item: 9

Board Meeting Date: November 3, 2021
Prepared By: Shallako Goodrick
Reviewed By: Marlene Kelleher
Approved By: Brett Hodgkiss

SUBJECT: WATER RATE STRUCTURE AND WATER RATES

RECOMMENDATION: Review and provide input on potential revisions to the water rate structure and water rates.

PRIOR ACTION:

- 07/15/2009 Conducted a public hearing and adopted Resolution Number 09-40 which renewed the pass through of the San Diego County Water Authority (Water Authority) costs and annual inflationary adjustments (Rate Adjustment Policy) for a five-year period.
- 10/09/2013 Conducted a public hearing and adopted Resolution Number 13-38 renewing the District's Rate Adjustment Policy for a period of five years.
- 10/18/2017 Conducted a public hearing and adopted Resolution Number 17-38 renewing the District's Rate Adjustment Policy for a period of five years.

FISCAL IMPACT: The rate structure includes pass-through of Water Authority fees and charges imposed on the District for water purchases and an increase to cover the District's capital needs and other obligations. Additionally, an increase to the service charge is being proposed along with the implementation of an annual water rate adjustment commencing July 1, 2023 and ending July 1, 2026. Adoption of the proposed water rate changes should ensure that the District's revenues and reserves sufficiently fund current and future operations and capital costs.

SUMMARY: In 2009, the Board approved water rate adjustments and rate structure modifications, including the implementation of a tiered water rate structure. In 2013 and 2017, the Board approved the renewal of the pass-through of Water Authority costs and annual inflationary adjustments to the service charge (Rate Adjustment Policy).

Staff has conducted a detailed cost of service analysis, in compliance with Proposition 218, to ensure that the District's rates recover the costs associated with providing water service to each customer. The analysis examined operating and capital improvement costs and projected these costs over a five-year period ending in Fiscal Year 2027. The projections are based on estimated costs necessary to continue to operate and maintain the water system for District ratepayers and utilizes industry standard cost indexes and historical averages.

DETAILED REPORT: The District proposes to adopt rates related to the following three components:

The first component is the pass-through of Water Authority fees and charges imposed on the District for water purchases. The District proposes to pass through 100% of any increase or decrease in the Water Authority's fees and charges imposed on the District for water purchases through December 31, 2026. The pass-through of Water Authority fees and charges for the first year of the five-year period is 16 cents per unit (one unit = 748 gallons). This amount is comprised of a 20-cent per unit increase, less a four cents per unit rebate received from the Water Authority related to the resolution of a decades long rate case against the Metropolitan Water District of Southern California.

The next component is comprised of an increase to the service charge and an inflationary increase each year after on July 1. If the proposed rates were to be adopted, the automatic pass-through of an annual inflationary adjustment (based on the U.S. Department of Labor's Consumer Price Index – All Urban Consumers – San Diego, California for the previous calendar year ended) to the service charge would not be necessary for July 1, 2022. Annual inflationary adjustments would commence on July 1, 2023 and continue through July 1, 2026. The annual inflationary adjustment is applied to District costs only. The amount of the increase included in initial adjustment to the service charge, based on a 3/4 inch meter, is \$1.42 per month (\$2.84 bi-monthly).

The final component is to ensure that the District has sufficient revenues to cover the costs of providing water service. It is anticipated that the water rate and service charge (previously described) revenues over the upcoming five years will recover, but not exceed, the cost of providing water service, which includes water purchases from the District's wholesale supplier, the Water Authority, system operation and maintenance, facility and equipment maintenance, system rehabilitation, regulatory compliance, metering, billing, conservation and account management. This one-time increase (to the District's portion of the commodity rates) during the five-year period represents a 16-cent increase to the Tier 1 rate and a nine-cent per unit to the Tier 2 rate (under a new tier allotment structure), or a 16-cent increase to the Tier 1 rate and 30-cent per unit increase to Tier 2 (and Tier 3) rates (under the current tier allotment structure).

The Tier 1 rate is set at a rate to recover the District's operating costs minus costs related to expanding the District's local water supply, the cost of conservation and increasing storage capacity. The Tier 2 rate uses the Tier 1 rate as its base and adds on the recovery of the costs of improving and expanding the District's local water supply system beyond what is paid for by the Tier 1 rate (including the replacement of or reengineering of the District's aging Vista Flume), increasing reservoir storage capacity and wellfield production and conservation efforts.

As a governmental district, and unlike a public utility, the District does not make a profit or have shareholders, and all revenues go back into the water system. Revenues derived from the proposed rate adjustments will not exceed the cost to provide water service to customers, and the revenues will not be utilized for any purpose other than financing the District's operating and capital needs.

Staff has developed three potential rate structure/water rate alternatives to generate revenue and reserves necessary to fund current and future operations and capital costs. All alternatives assume the same service charge increase, annual inflationary increases (beginning July 1, 2023) and the pass-through of the Water Authority increases (or decreases) to fees and charges imposed on the District for water purchases at 100%. Each alternative seeks to increase water rates sufficiently to fund operations and have a Capital Improvement Reserve of approximately \$13 million at the end of the five-year period help pay for future large-scale infrastructure projects. The difference between the alternative water rate structure/water rate alternatives is the use (or elimination) of tiers and tier allotments.

Each water rate structure/water rate alternative is briefly described below:

- **New Tier Allotments with New Water Rates.** This alternative would result in the Tier 1 allotment for each meter size decreasing (see table showing current and new Tier 1 allotments), and all water use above the Tier 1 allotment being charged at the Tier 2 or Tier 3 rate. The Tier 1 rate would increase from \$4.44 to \$4.76 per unit (32 cents per unit), and the Tier 2 rate and Tier 3 rate would increase from \$4.98 to \$5.23 per unit (25 cents per unit).

Meter Size	Current Tier 1 Allotment	Proposed Tier 1 Allotment	Difference
5/8	7	4	3
3/4	10	6	4
1	25	15	10
1 1/2	50	30	20
2	80	48	32
3	160	96	64
4	250	150	100
6	500	300	200
8	800	480	320
10	1150	690	460

- **Current Tier Allotments with New Water Rates.** This alternative would not result in any changes to the tier allotments. The Tier 1 rate would increase from \$4.44 to \$4.76 per unit (32 cents per unit), and the Tier 2 and Tier 3 rates would increase from \$4.98 to \$5.44 per unit (46 cents per unit).
- **Flat Rate.** This alternative would result in all tier allotments and associate rates being eliminated, and a Flat Rate of \$5.07 per unit being charged for all water use.

To comply with the procedural requirements of Proposition 218, staff will prepare a Notice of Public Hearing (Notice) to consider the adoption of proposed water rate changes, which will be mailed to all residents and owners. If the District elects to consider a tiered structure, the District will ensure that the tier allotments are tied to the costs resulting from the different levels of use. The Notice informs the public of the District's proposal to adjust the tier structure, allotments and rates as well as the District's service charge (for each meter size) and explains why the water rate increases are necessary (analysis supporting the proposed adjustments will be made available to the public). The Notice will also advise the public of the District's intent to reaffirm its pass-through of Water Authority fees and charges for wholesale water and related services and its annual inflationary adjustment for a period of five years.

ATTACHMENTS:

- Summary of Rate Model Assumptions
- Financial Requirements Analysis
- Projected Capital Improvement Plan Expenditures for Fiscal Years 2022 through 2027
- Reserve Policies Description

SUMMARY OF RATE MODEL ASSUMPTIONS

The proposed rates and charges were developed with the long term financial health of the District in mind. As such, the District prepared a comprehensive rate analysis that forecasts the financial results of the District over the next five fiscal years. Assumptions are an important component of long term financial forecasting and to develop reasonable assumptions the District utilized historical results and costs indexes, where applicable.

The District will closely monitor the actual financial results and compare them to the rate analysis projections to ensure that the assumptions are reasonable. The major assumptions utilized in the rate analysis are:

Revenues and operating expenses are derived from the District's Fiscal Year 2022 Budget. Beyond fiscal year 2022, revenues and operating expenses are assumed to increase approximately 3% annually.

Capital Improvement Plan expenditures are based on the District's Capital Improvement Plan, which includes major capital projects such as Mainline Replacement Program, Vista Flume Replacement, San Pasqual Undergrounding Project, Wellfield Replacement and various reservoir projects.

Future infrastructure capital improvement expenditures are escalated from current costs by the average of the Engineering News Record's Construction Cost Index of 3.338%. Non infrastructure capital improvement expenditures are escalated by 3%.

Water sales are assumed to be 15,800 acre feet annually which represents a 26% decrease from the District's last rate study in 2009.

The Reserve Policy goal for the Emergency and Contingency Reserve is met each year. Approximately \$7,000,000 of the Reserve for the Capital Improvement Reserve will be utilized to fund shortfalls in order to minimize rate increases.

Financial Requirement Analysis

Budget Projection

The rate model is based on the Budget for the Fiscal Year Ending June 30, 2022 approved by the Board on June 6, 2021. The Budget is created each year based on historical averages for water sales, water purchases and local water production. Other revenue sources and expenses are based on historical averages or current data if known at the time. The water purchase costs remain constant for all projected years since the District passes-through those costs directly to customers; an increased expense is not recognized for purchased water and additional revenue charged to cover the cost is not recognized. The Budget is projected forward for five-years using an average historical inflationary factor for most items and actual data if known. The budget projection assumes an inflation adjustment (based on the U.S. Department of Labor's Consumer Price Index – All Urban Consumers – San Diego, California) on July 1 to the service charge will continue until Fiscal Year 2027. The budget projection excludes depreciation since it is not a cash flow item and instead incorporates District Capital Project expenditures anticipated through Fiscal Year 2027. Capital expenditures for Fiscal Years 2022 through 2027 are projected to be approximately \$78.7 million (see Attachment A, Capital Projects).

Budget projections through Fiscal Year 2027, as previously outlined, are used to determine the surplus or shortfall in revenue and cashflow compared to required reserves; Attachment B, Budget Projection through Fiscal Year 2027, shows a decrease in cash at the end of Fiscal Year 2027 of \$16.3 million.

Capital Projects Requiring the Rate Adjustment

The anticipated expenditures for Capital Projects during the next five years includes an accelerated timeline on reservoirs and increased costs for the San Pasqual Undergrounding Project as detailed in this section. The Capital Projects list also includes on-going main replacement (\$16.3 million through Fiscal Year 2027); the goal of the Main Replacement Program is to replace pipelines before they reach the end of their useful life and become a maintenance liability and to replace pipelines due to street realignments and/or improvements. Proactively replacing aging pipelines reduces the potential for catastrophic breaks and resulting water service outages.

The District entered into an agreement with Murray Smith for the Four Reservoirs Seismic and Structural Analysis project. The report findings, which included a proposed project schedule for the four reservoir projects, were presented to the Board on November 18, 2020 (see Attachment C, Four Reservoirs Board Report). The findings for the conditions of E, A and Deodar reservoirs (described in Attachment C) resulted in their respective project completion timelines to be accelerated; it is anticipated that the District will spend approximately \$19.2 million on these reservoir projects through Fiscal Year 2027.

In September 2018 Richard Brady & Associates were hired to perform an inspection, assessment and structural analysis of the Pechstein Reservoir's roof; it was determine that the roof needed to be replaced (see Attachment D, Excerpt from Roof Structural Assessment Report). Pechstein Reservoir is the District's largest at 20 million gallons and is critical to its system operations. In order to replace the roof, Pechstein Reservoir will need to be taken out of service. A new reservoir, Pechstein II, will need to be constructed prior to Pechstein Reservoir being taken out of service; Pechstein II Reservoir will assist with system operations while Pechstein Reservoir is offline and provide additional storage capacity required for outages, as outlined in the District's Water Master Plan (see Attachment E, Excerpt from Potable Water Master Plan). The cost of constructing Pechstein II and the beginning of the new roof will cost approximately \$11.9 million through Fiscal Year 2027.

The San Pasqual Undergrounding Project (SPUP) is a project to remove, relocate and replace about 2.5 miles of the Escondido Canal that cross the San Pasqual Indian Reservation. Completion of SPUP is a requirement of the San Luis Rey Indian Water Rights Settlement Agreement, which became effective on May 17, 2017; the project is required to be completed by May 17, 2023 (Attachment F, excerpt from the San Luis Rey Indian Water Rights Settlement Agreement). While both the City of Escondido (City) and the District are jointly responsible to complete the project, the City is responsible for managing the design and construction of the SPUP. Estimated project costs have risen significantly (\$27 to \$50 million) since the District’s last public hearing on water rates. The District’s estimated portion of the project cost (50 percent) was approximately \$13.5 million in 2017; the District’s share of the project cost has risen to just over \$25 million at present.

Reserves

The District maintains the following Reserve Accounts: Emergency and Contingency Reserve, Working Capital Reserve, Water Purchase Stabilization Reserve, and Capital Improvement Reserve.

- The Emergency and Contingency Reserve balance is \$10 million as of June 30, 2021 and is calculated as 10% of the District’s Net Fixed Assets plus all Capital in Progress accounts. The Emergency and Contingency Reserve is for unanticipated expenses resulting from emergencies including, but not limited to, earthquakes, floods, winds, wildfires, or other unforeseen events that cause damage to District facilities and properties.
- The Working Capital Reserve balance is \$10 million as of June 30, 2021 and is calculated as 20% of Water Revenues. The Working Capital Reserve is for operating revenue and expense variances and timing in collections and payments.
- The Water Purchase Stabilization Reserve is contributed to when the District has excess local water over the 60-year average. The Water Purchase Stabilization Reserve is currently zero due to a lack of surplus local water in recent years with any balance from prior years being used in its entirety.
- The Capital Improvement Reserve represents remaining funds available and is currently at approximately \$20,346,496 as of June 30, 2021. The purpose of the Capital Improvement Reserve is to fund for the District’s Capital Improvement program.

The total cash balance for the District as of Fiscal Year June 30, 2021 was approximately \$46.5 million. Surplus Supplemental Water (used to pay the San Luis Rey Indian Water Authority for surplus supplemental water in January each year) and the Water Rebate (used to offset adjustments to the Water Authority’s fees and charges for wholesale water and water related services) cannot be expended on operations and/or capital projects. As shown in Table 3, the District’s Capital Improvement Reserve as of June 30, 2021 is estimated to be \$20.3 million.

Table 3

Cash Balance Actual 06/30/2021	Amount
Emergency and Contingency Reserve	\$ 10,000,000
Working Capital Reserve	10,000,000
Surplus Supplemental Water	4,595,222
Water Rebate	1,571,006
Capital Improvement Reserve	20,346,496
Total Cash Balance	46,512,724

Based on budget projections through Fiscal Year 2027, assuming no changes are made to the rate structure (aside from potential pass-through of increased costs/inflation), the Capital Improvement Reserve at June 30, 2027 would be just over \$4 million; see Table 4.

Table 4

Capital Improvement Reserve 06/30/21	\$ 20,346,496
Budget Projection to Fiscal Year 2027	(16,262,819)
Remaining Capital Improvement Reserve	4,083,678

Capital Improvement Reserve- The water industry has many long-lived assets; for example, reservoirs have an estimated life of 80 years. While the lives are very long, the initial construction and replacement costs of these assets are high. Large projects cannot reasonably be funded from a single year of customer revenue collection; instead, revenue is collected in smaller amounts over time and held in reserves until the project is ready to be built. Without sufficient reserves, the District would have to finance future large projects and charge customers after the fact at a much higher rate due to the cost of financing, including interest. It is in the best interest of the customers to have capital reserves to help keep costs capital project costs low, when feasible.

The Capital Improvement Reserve does not have a Board established minimum balance. To arrive at a minimum balance to maintain in this account at the end of the five-year rate setting period, a one year value of the District’s system depreciation, adjusted for inflation, was calculated using the “Engineering News Record” which maintains a Construction Cost Index (Index). This Index, which contains construction and building components, is used to adjust the District’s historical Fixed Assets value to current costs; any material assets not in the District’s asset database (existed prior to the maintenance of fixed asset records) were included in the District’s Capital Projects list and those values were used.

Using the District’s current estimated asset lives, the annual cost of the District’s system and assets were calculated at approximately \$13.2 million (see Attachment G, Capital Assets Current Value). Collecting revenue using the current water rate structure will result in the Capital Reserve being depleted to a level that will not sustain Pay-go (cash) funding of planned capital projects beyond Fiscal Year 2027, such as rehabilitation of the Warner wellfield and replacement of the 100-year old Vista Flume.. Borrowing to fund some of the projects would also require a higher reserve since debt financing requires a debt service reserve be set aside in addition to the monthly payments (including interest). As shown in Table 5, because the District believes that its Capital Improvement Reserves should have a minimum of roughly \$13.2 million, if the rates are not adjusted, the resulting shortfall by the end of Fiscal Year 2027 would be approximately \$9.1 million.

Table 5

Remaining Capital Improvement Reserve	\$ 4,083,678
Targeted Capital Reserve	13,230,783
Short Fall by Fiscal Year End 2027	(9,147,105)

Attachment A

Vista Irrigation District

CAPITAL PROJECTS

Projects for Fiscal Years 2022 to 2050

Infrastructure	Allocated by	Current Year						
		Base Cost*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
E. Reservoir Replacement/Upsize/Pump Station	Tier 1 Rate	11,500,000	3,000,000	2,842,878	4,007,582	2,209,565	-	-
Main Replacement Program	Tier 1 Rate	50,000,000	2,500,000	2,584,435	2,671,721	2,761,956	2,855,238	2,951,670
Vista Flume Rehabilitation	Tier 2 Rate	120,000,000	750,000	723,642	-	-	-	-
Paseo Santa Fe Project	Tier 1 Rate	428,611	225,000	-	-	-	-	-
Well Field Repair/Replacement (65%), Siphon rehal	Tier 2 Rate	6,956,076	200,000	516,887	-	-	-	-
Deodar Reservoir	Tier 1 Rate	1,350,000	135,000	51,689	336,637	939,065	-	-
Calle Maria Pipeline Extension	Tier 1 Rate	200,000	100,000	103,377	-	-	-	-
Pechstein II Reservoir	Tier 2 Rate	9,000,000	-	465,198	480,910	1,789,747	3,700,388	3,825,365
A Reservoir	Tier 1 Rate	5,000,000	-	258,443	267,172	994,304	2,055,771	2,125,203
Pechstein Rehabilitation Roof	Tier 1 Rate	14,100,000	-	-	-	-	799,467	826,468
Pechstein Reservoir Secondary Feed	Tier 1 Rate	5,100,000	-	-	-	-	-	-
CO SD, S. Santa Fe Ave - Widening Project	Tier 1 Rate	4,110,549	-	-	-	-	-	-
San Marcos, S. Santa Fe Wide - Smilax to Bostick	Tier 1 Rate	256,909	-	-	-	-	-	-
Robelini/Buena Creek Pipeline	Tier 1 Rate	3,773,638	-	-	-	-	-	-
Valve Rehab on Dam Outlet	Tier 1 Rate	220,942	-	-	-	-	-	-
Santa Fe - Civic to Postal	Tier 1 Rate	940,000	-	-	-	-	-	-
HB Pipeline	Tier 1 Rate	872,314	-	-	-	-	-	-
H Line Aband. - Pechstein to E Reservoir	Tier 1 Rate	719,346	-	-	-	-	-	-
900 Zone Feed Regulator and Pipe	Tier 1 Rate	600,000	-	-	-	-	-	-
Habitat Conservation Plan	Tier 1 Rate	544,648	-	-	-	-	-	-
637 Zone Feed Vault and Regulator	Tier 1 Rate	300,000	-	-	-	-	-	-
C Reservoir Demo and PRV Feed Upgrade	Tier 1 Rate	800,000	-	-	-	-	-	-
E-1 Reservoir Demo-565 Zone PRV	Tier 1 Rate	1,800,000	-	-	-	-	-	-
Total Infrastructure		238,573,033	6,910,000	7,546,550	7,764,022	8,694,637	9,410,864	9,728,705
Non Infrastructure	Tier 1 Rate	16,076,085	519,000	549,306	567,858	587,037	606,864	627,360
San Pasqual Undergrounding (50%)	Tier 1 Rate	25,051,715	8,000,000	17,162,420	-	-	-	-
Total		279,700,833	15,429,000	25,258,275	8,331,880	9,281,674	10,017,727	10,356,065

*Current Year Base Cost represents the current cost of identified projects to be completed sometime before Fiscal Year 2050. The values starting in Fiscal Year 2023 are adusted for inflation (projected to be 3.38%). Fiscal Years 2028 to 2050 are not shown in detail on this Attachment since this rate increase is designed to only cover capital expenses through Fiscal Year 2027.

Attachment B

Current Budget Projection to Fiscal Year 2027 (includes usual CPI rate increases on Service Fee July 1)

Budget FY22		
Local Water	3,115	18.5%
Purchased Water	13,685	81.5%
Total Budgeted Water Supply	16,800	

Water Sales Billed (Avg FY17-FY20 rounded)	Current State				
		Acre Feet	Units	Rate 03/1/21	Amount
Tier 1	53%	8,354	3,639,002	\$4.44	\$ 16,157,171
Tier 2/3	47%	7,446	3,243,478	\$4.98	16,152,518
Total		15,800	6,882,480		32,309,689

Service Charge (Connections Actual FY21)	Current State		
	Count	Monthly Charge	Annual
5/8	6,832	\$ 31.75	\$ 2,602,992
3/4 & 3/4 1	17,000	41.88	8,543,520
1	2,880	61.89	2,138,918
1.5	1,318	112.34	1,776,769
2	883	172.66	1,829,505
3	55	333.57	220,156
4	23	514.49	141,999
6	13	1,218.45	190,078
8	2	1,620.90	38,902
10	1	2,425.46	29,106
	29,007		17,511,946

Financial		Budget FY 2022	Projected FY 2023	Projected FY 2024	Projected FY 2025	Projected FY 2026	Projected FY 2027	Total
Revenue Water Sales/Emergency Storage Fee	66%	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	
Revenue Service Fee	34%	17,500,000	17,957,533	18,491,583	19,107,992	19,744,948	20,403,137	
Revenue All Others		3,241,900	3,473,430	3,548,193	3,635,110	3,724,309	3,815,850	
Revenue Total		54,862,900	55,551,962	56,160,776	56,864,101	57,590,257	58,339,987	
Expenses less Depreciation		44,682,700	45,186,674	45,783,333	46,466,237	47,098,503	47,740,734	
Net		10,180,200	10,365,288	10,377,443	10,397,865	10,491,754	10,599,253	
Capitla Projects		15,429,000	25,258,275	8,331,880	9,281,674	10,017,727	10,356,065	
Contribution to or (Use of) Capital Improvement Reserves		(5,248,800)	(14,892,987)	2,045,563	1,116,191	474,027	243,188	(16,262,819)

	Cash Balance Actual 06/30/2021 Amount	Expected Cash Balance 06/30/2027 Amount
Cash Balance Actual 06/30/2021		
Emergency and Contingency Reserve	\$ 10,000,000	\$ 10,000,000
Working Capital Reserve	10,000,000	10,000,000
Surplus Supplemental Water	4,595,222	4,595,222
Water Rebate	1,571,006	
Capital Improvement Reserve	20,346,496	4,083,678
Total Cash Balance	46,512,724	28,678,900

Attachment C

Four Reservoirs Board Report



STAFF REPORT

Agenda Item: 9

Board Meeting Date: November 18, 2020
 Prepared By: Greg Keppler
 Reviewed By: Randy Whitmann
 Approved By: Brett Hodgkiss

SUBJECT: FOUR RESERVOIRS SEISMIC/STRUCTURAL ANALYSIS AND RESERVOIR IMPROVEMENT PLANS

RECOMMENDATIONS: Receive informational report on the primary findings and recommendations from the Four Reservoirs Seismic/Structural Analysis and an update on the District’s near-term reservoir improvement plans.

PRIOR BOARD ACTION: On March 4, 2020, the Board authorized the General Manager to enter into an Agreement for Professional Services with Murray Smith for the Four Reservoirs Seismic and Structural Analysis project in an amount not-to-exceed \$175,739.

FISCAL IMPACT: Planning level rehabilitation, replacement, or demolition construction costs are estimated to be \$12.95 million in today’s dollars for the recommended alternatives in the Four Reservoirs Seismic/Structural Analysis, which includes the Virginia Place (A), Summit Trail (C), Cabrillo Circle (E-1), and Deodar reservoirs. The District’s estimated total construction costs for near-term improvements (within ten years) to system storage are estimated to range between \$47.55 million - \$55.75 million in today’s dollars (see table below).

Storage Project	Estimated Cost
Edgehill (E) Reservoir Replacement (increase from 1.5 million gallon [mg] to 2.9 mg) and New Pump Station	\$11.50 million
Deodar Reservoir Rehabilitation (1.0 mg)	\$ 1.35 million
New Pechstein II Reservoir (5.0 - 10.0 mg)	\$9.0 million – \$17.20 million
Pechstein I Reservoir Rehabilitation (20.0 mg)	\$14.10 million
Virginia Place (A) Reservoir Replacement (increase from 0.8 mg to 3.0 mg)	\$ 9.0 million
Summit Trail (C) Reservoir Demolition (0.8 mg) and Pressure Regulator Upgrades	\$ 0.80 million
Cabrillo Circle (E-1) Reservoir Demolition (0.6 mg) and New Pressure Regulator Feed	\$ 1.80 million
Total	\$47.55 million - \$55.75 million

SUMMARY: In 2018, the District completed a Water Master Plan (Master Plan) which included a cursory inspection and preliminary condition assessment of all the reservoirs and developed a priority ranking matrix to assist the District in proceeding with further investigations to implement future reservoir improvement and upgrade projects. Since the Master Plan, projects for the highest ranked reservoirs are underway including:

- Rehabilitation of the Buena Creek (HB) Reservoir is currently under construction and expected to be completed by early 2021.
- Design of the Edgehill (E) Reservoir is nearly complete and will be ready for construction by early 2021.
- A seismic/structural analysis and roof rehabilitation/replacement alternatives evaluation have been completed for the Pechstein Reservoir. Temporary short-term repairs to the glulam roof beams are underway and full roof replacement is planned following construction of a new Pechstein II Reservoir.

In addition to the above, Murray Smith has completed a seismic/structural analysis for the Virginia Place (A), Summit Trail (C), Cabrillo Circle (E-1) and Deodar reservoirs, including an evaluation of rehabilitation, replacement and/or demolition alternatives and recommendations for each reservoir. The results of this study are presented below and have assisted District staff in determining the priority and timing of near-term reservoir improvements.

DETAILED REPORT: Virginia Place (A), Summit Trail (C) and Cabrillo Circle (E-1) are all cast-in-place, reinforced concrete reservoirs constructed in the 1920s and are nearly identical in design. Deodar Reservoir is a pre-stressed concrete reservoir, very similar in design to Pechstein Reservoir, constructed in 1978. All reservoirs have a timber framed wood or corrugated metal roof. Based on the preliminary condition assessment in the Master Plan, the possibility of roof retrofits or replacements were identified as was the possibility of needing full reservoir replacement under a worst-case scenario; seismic and structural evaluations were recommended as the next step.

Murray Smith performed the following tasks for the study:

- Conducted interior and exterior inspections at each reservoir to assess overall condition.
- Performed geophysical surveys to ascertain subsurface soil conditions and current seismic design parameters.
- Reviewed original plans of the existing reservoirs to understand design parameters.
- Structurally analyzed and performed building code assessments to determine structural deficiencies.
- Provided rehabilitation requirements to address condition and structural deficiencies.
- Compared rehabilitation needs to building a new reservoir.
- Evaluated operational storage needs based on the Master Plan and developed alternative projects (e.g., construct larger reservoir or decommission reservoir without replacement).

The key findings and results are as follows:

Inspection Findings

Virginia Place (A), Summit Trail (C) and Cabrillo Circle (E-1) reservoirs – The exterior roof top surfaces are in poor to fair condition, while the underside roof framing and sheathing are in serious to poor condition. An assessment on the interior wall, floor slab, and columns were not possible with the reservoirs having urethane/epoxy coatings. The exterior walls are generally in fair condition, although full height vertical cracks are present at various locations.

Deodar Reservoir – Similar to the findings from inspecting the Pechstein Reservoir in 2018, portions of the roof are in serious condition from dry rot occurring from the outside exterior of the valley glulam beams. The interior wall, floor slab, and columns are generally in good condition, and the exterior walls are in fair condition. Hammer testing the exterior gunite identified multiple hollow sounding areas around the reservoir, which the consultant believes to be minor delamination in the gunite material that has not progressed to the circumferential pre-stressed wire wrapping (in which case corrosion would be a concern). The latter typically results in more pronounced delamination and hollow sounds when struck with a hammer.

Seismic/Structural Evaluation

Virginia Place (A), Summit Trail (C) and Cabrillo Circle (E-1) reservoirs – The roof girders and vertical wall reinforcing are substantially overstressed for normal gravity and hydrostatic loading per current design standards. With additional hydrodynamic loading during a design level earthquake, the circumferential wall reinforcing would also become overstressed. Additionally, the reservoir roof design is inadequate to resist and transfer seismic loading, making it susceptible to damage and partial or total collapse. These seismic deficiencies would transfer down the walls, columns and connecting foundation elements and damage and partial collapse of the reservoir would be likely.

Deodar Reservoir – The circumferential pre-stressed wire wrapping is slightly under-designed for normal gravity and hydrostatic loading per current design standards when evaluated with the reservoir completely full at the overflow elevation (water level at 30 feet). This deficiency is eliminated when the operational water level is reduced to a maximum of 26 feet (note the District’s typical operating high-water elevation is 23 feet). Under additional hydrodynamic loading during a design level earthquake, the roof design is inadequate to resist and transfer the seismic loading, making it susceptible to damage and partial or total collapse. The remaining reservoir elements meet current seismic standards with a maximum operating water level of 26 feet.

Reservoir Alternatives and Costs

As indicated in the inspection and seismic/structural evaluation, the improvements required for the Deodar Reservoir are minimal and only a new roof is recommended. However, the improvements required to rehabilitate the Virginia Place (A), Summit Trail (C) and Cabrillo Circle (E-1) reservoirs are extensive and would require full roof/column replacement and wall/base slab strengthening. The planning level estimated cost per reservoir for rehabilitation is \$3.9 million, slightly less expensive than an estimated full replacement cost of \$4.1 million (for a same sized reservoir). Alternative projects are proposed for these reservoirs based on a review of system storage needs.

The District’s storage requirements for the entire system and per pressure zone are dependent on the large, high-elevation storage reservoirs (herein referred to as “regional storage”) including Pechstein, Buena Creek (HB) and Edgehill (HP). From the analysis in the Master Plan, there is only a 4 mg system-wide deficit at build-out (which would be met by Pechstein II). However, many individual pressure zones have deficits and therefore rely on regional storage. This works when there is adequate conveyance capacity to deliver peak flows from the regional reservoir to the lower zone. If there is not adequate capacity, the lower zones become more dependent on closer, lower-elevation reservoirs (herein referred to as “local storage”). Based on this concept and hydraulic analyses performed by staff for this study, the alternates developed include expansion of the Virginia Place (A) Reservoir and decommissioning the Summit Trail (C) and Cabrillo Circle (E-1) reservoirs without replacement.

The recommended projects for each reservoir are summarized below:

Virginia Place (A) Reservoir – This 0.8 mg reservoir provides local storage to the 707 Pressure Zone and is subject to significant water level fluctuations due to demand peaking and the existing lack of regional storage support (future pipeline upgrades to the area would be required). With the current dependence on local storage in this pressure zone, it is desired to increase the existing 0.8 mg storage volume. The existing site and surrounding same-elevation parcels were evaluated for the ability to construct a new, larger reservoir. Of the many alternatives evaluated, the following project is recommended:

- Replace the existing reservoir with a 3.0 mg circular pre-stressed concrete reservoir on a combined parcel consisting of the existing District-owned site and an acquired adjacent parcel to the north and east. The planning level estimate for this improvement is \$9.0 million including property acquisition costs. Should the adjacent parcel not be available for purchase, it is estimated that a new 1.1 mg reservoir can be constructed on the existing site with an estimated cost of \$4.9 million.

Summit Trail (C) Reservoir – This 0.8 mg reservoir provides local storage for the 637 Pressure Zone and has significant support from regional storage; hydraulic modeling indicates this pressure zone can operate without a reservoir. The following project is recommended:

- Decommission and demolish the existing reservoir without replacement. Prior to decommissioning, upgrade the existing pressure regulator feed to the reservoir to increase capacities for peak flows. The planning level estimate for this project is approximately \$800,000. Construction of a third pressure regulator feed to this zone, as recommended in the Master Plan, to increase supply reliability should also be made prior to decommissioning the reservoir.

Cabrillo Circle (E-1) Reservoir – This 0.6 mg reservoir along with the 3.1 mg San Luis Rey Reservoir provides local storage for the 565 Pressure Zone and they have significant support from regional storage; hydraulic modeling indicates this pressure zone can operate with only the San Luis Rey Reservoir in service. The following project is recommended:

- Decommission and demolish the existing reservoir without replacement. Prior to decommissioning and to increase supply reliability, install another pressure regulator feed to the pressure zone near the San Luis Rey Reservoir including approximately 2,000 feet of new transmission main. The planning level estimate for this project is approximately \$1.8 million.

Deodar Reservoir – Replace the existing roof with an aluminum dome roof. Planning level roof replacement and other needed improvements are estimated to be \$1.35 million.

Schedule

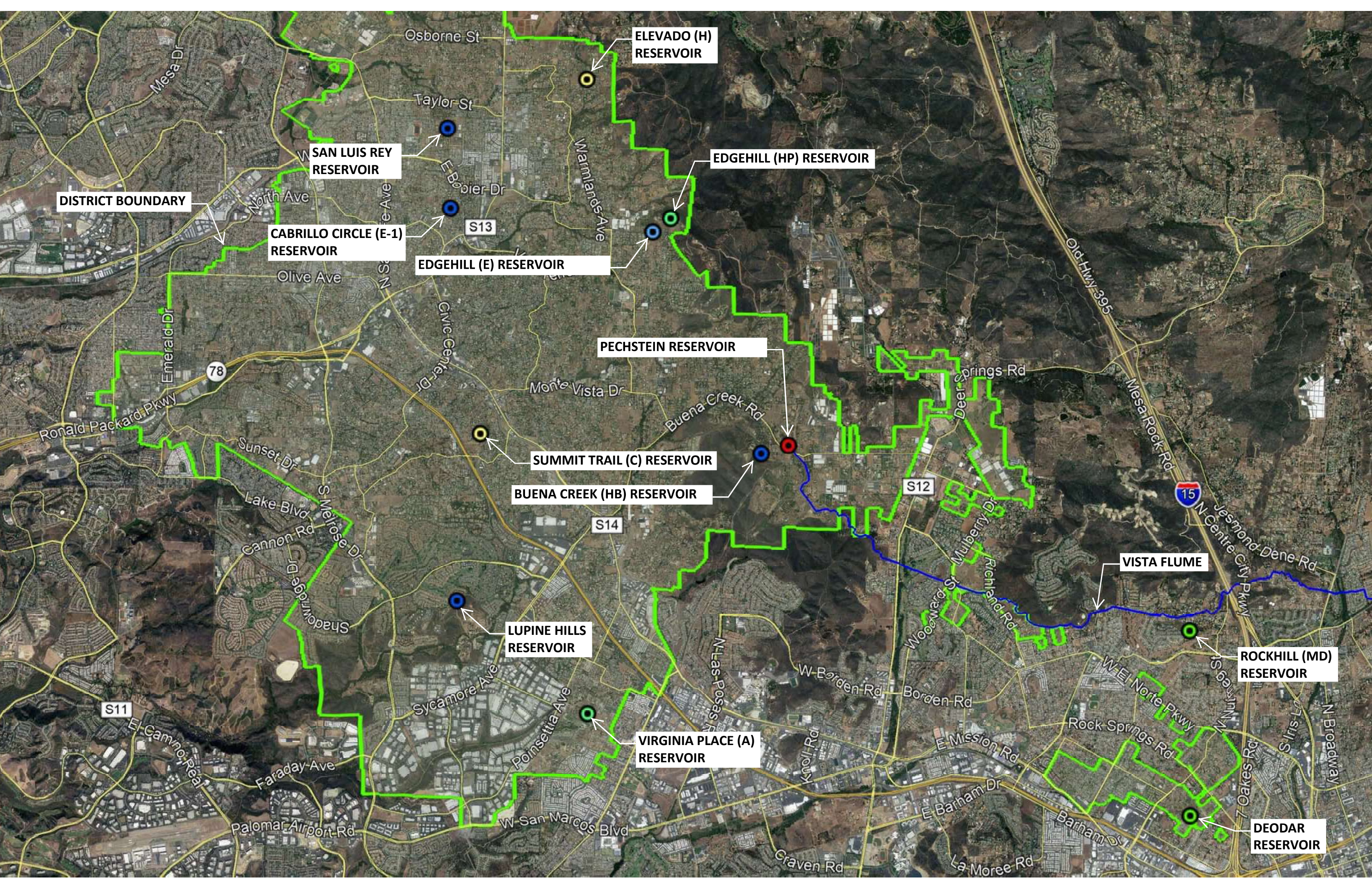
The proposed project schedule below was developed by Murray Smith; it contemplates completing all of the District’s near-term reservoir projects using a phased approach based on the various factors, including inspection findings, documented deficiencies, project prioritization, and input from staff regarding engineering and operational constraints. The District’s scheduling of these projects in a future fiscal year will largely depend on the availability of financial and staff resources; staff is currently updating its long-term capital project summary to determine timing and funding recommendations.

Reservoir	FY* 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031
E										
Deodar										
Pechstein II										
A										
Pechstein I										
C										
E-1										

*FY – Fiscal Year

ATTACHMENTS:

- Reservoir Summary Map
- Aerial Vicinity Maps
- Murray Smith Visual Condition Assessment
- Virginia Place (A) Reservoir Replacement Alternatives



ELEVADO (H)
RESERVOIR

EDGEHILL (HP) RESERVOIR

SAN LUIS REY
RESERVOIR

DISTRICT BOUNDARY

CABRILLO CIRCLE (E-1)
RESERVOIR

EDGEHILL (E) RESERVOIR

PECHSTEIN RESERVOIR

SUMMIT TRAIL (C) RESERVOIR

BUENA CREEK (HB) RESERVOIR

LUPINE HILLS
RESERVOIR

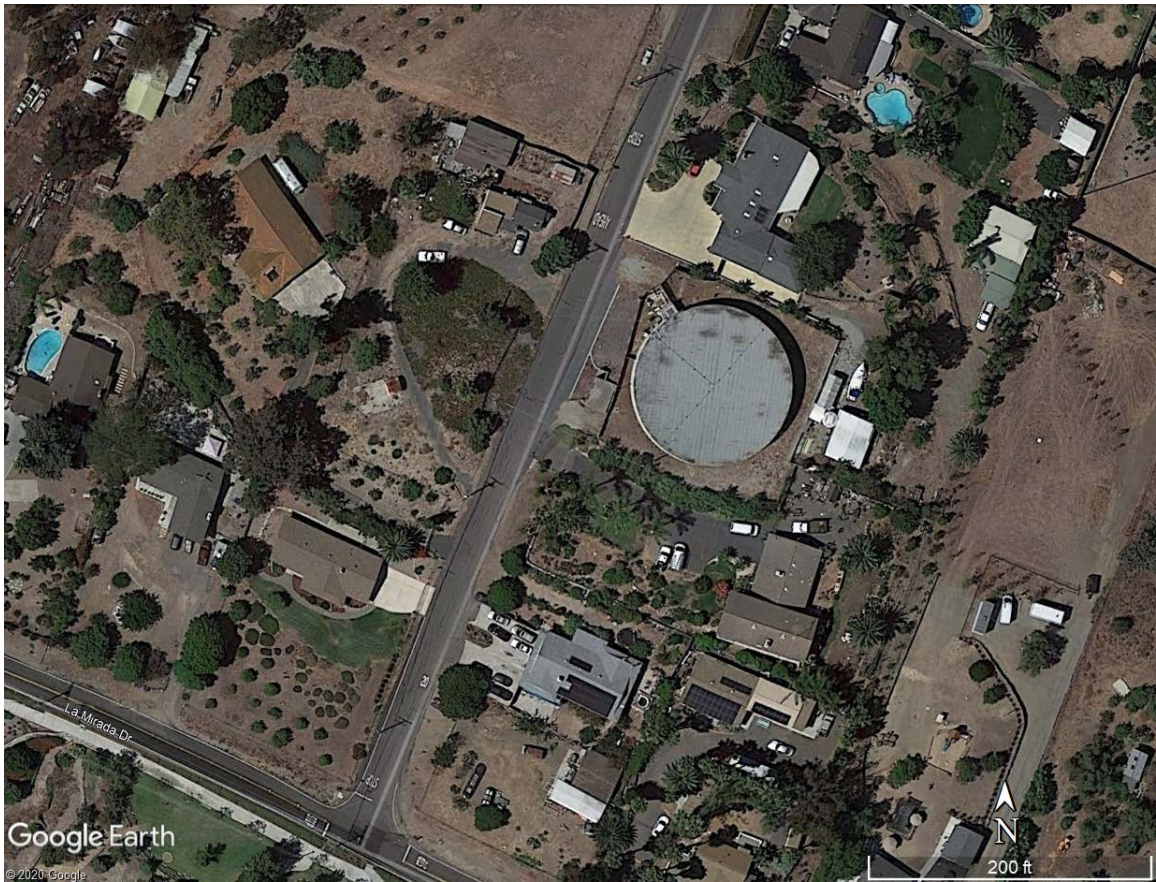
VIRGINIA PLACE (A)
RESERVOIR

VISTA FLUME

ROCKHILL (MD)
RESERVOIR

DEODAR
RESERVOIR

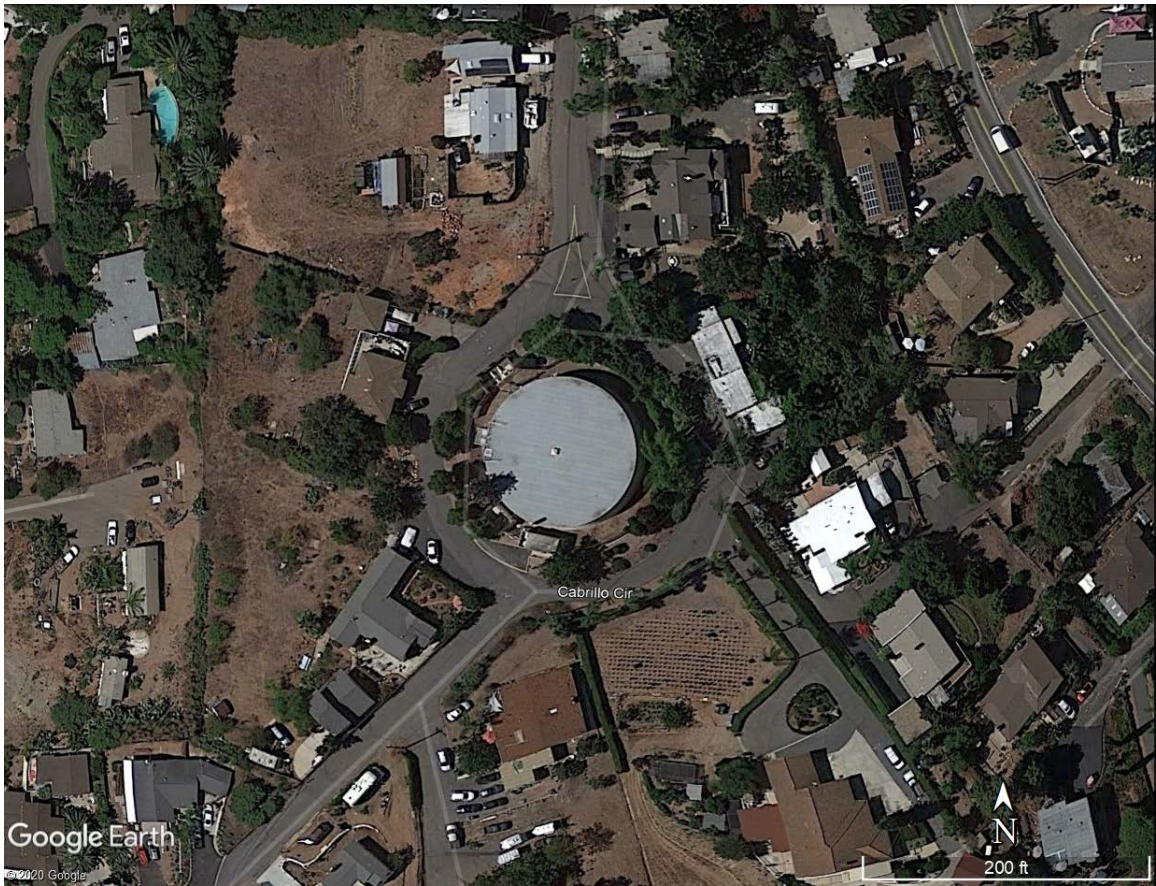
Virginia Place (A) Reservoir



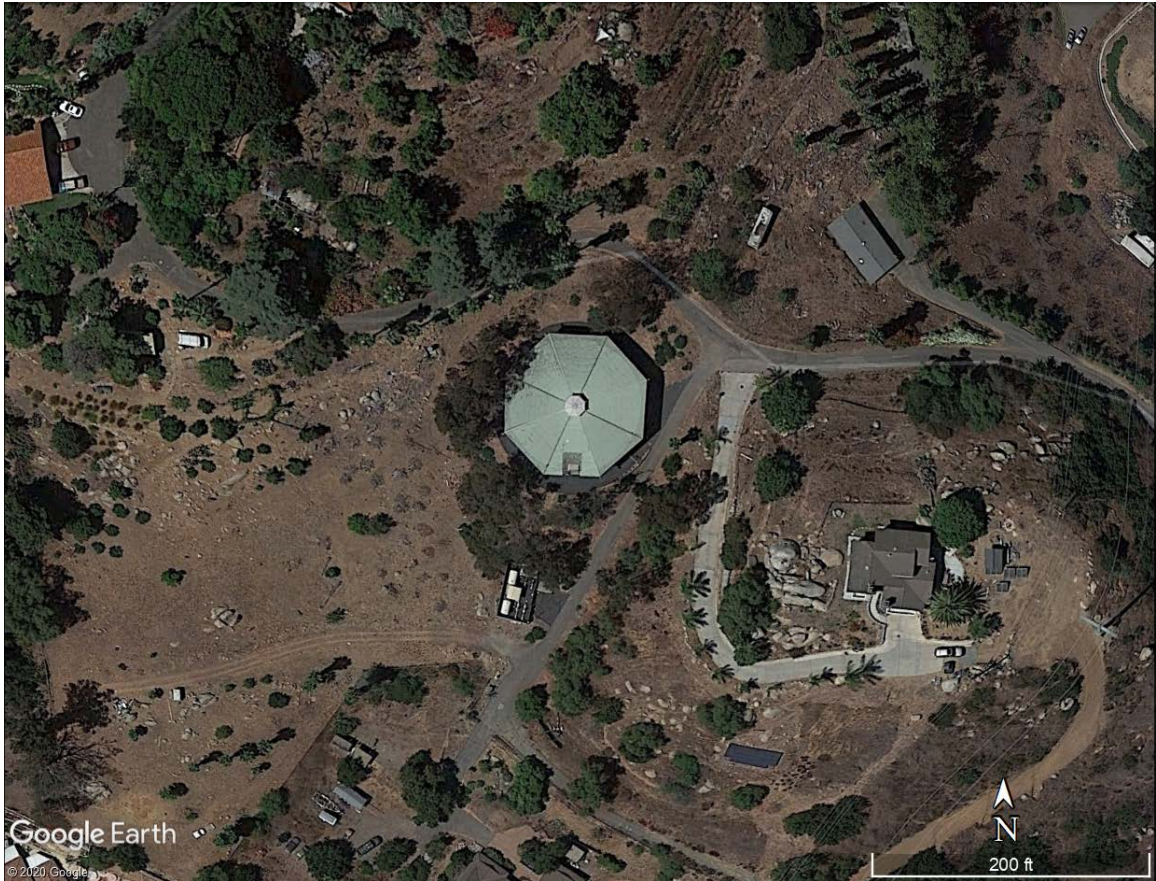
Summit Trail (C) Reservoir



Cabrillo Circle (E-1) Reservoir



Deodar Reservoir



4 VISUAL CONDITION ASSESSMENT

PSE, Murraysmith, and Group Delta performed site visits to observe the current as-built condition of the interior, exterior, and surrounding sites of A, C, E-1, and Deodar Reservoirs. The dates of inspection and inspection type are shown in Table 4-1 below.

Table 4-1
Planned Inspection Dates for A, C, E-1, and Deodar Reservoirs

Reservoir	Date of Inspection	Inspection Condition
A	05/20/2020	Interior and Exterior, Dry
C	05/14/2020	Interior and Exterior, Dry
E-1	05/14/2020	Interior and Exterior, Dry
Deodar	05/27/2020	Interior and Exterior, Dry
Deodar	05/20/2020	Interior, Wet

4.1 Purpose

The purpose of an on-site visual condition assessment is to verify general conformance of existing construction and/or identify significant alterations to those described in available documents, supplement any information not made available, and observe the general condition of the existing reservoirs. For efficiency, thumbnails of photographs are shown in the body of the report. Larger versions of the photographs shown can be seen in APPENDIX D.

4.2 Schmidt Rebound Hammer Results

To assess the general condition of the concrete strength of the reservoirs, PSE performed non-destructive in-situ testing of the structures with use of a Proceq silver-schmidt rebound hammer. A schmidt hammer measures the rebound of a spring-loaded mass impacting against the surface of a sample and converts the measured rebound to determine a calculated compressive strength for the material. A Schmidt hammer is intended to be calibrated to tested sample specimens of the in-place concrete. Use on existing concrete is less reliable and can be affected by a number of parameters (cement type, aggregates, surface calcification or weathering, carbonation of the concrete, etc.). As such, in-situ estimates of strength by rebound hammer method should not be used exclusively for analysis purposes but are useful for providing an expected upper limit of the compressive strength and identifying regions of deviation within a structure. A summary of schmidt hammer testing results are shown in Table 4-2 below.

**Table 4-2
Schmidt Rebound Hammer Results**

Compressive Strength (psi)				
Reservoir	Min	Max	Average	Standard Deviation
A	3700	8150	5800	2200
C	2600	7600	5350	1800
E-1	5100	6300	5550	700
Deodar	7200	10000	8000	1400

4.3 A, C, and E-1 Reservoir Inspections

PSE performed the inspection of A, C, and E-1 Reservoirs on the dates shown in Section 4 of this report. The reservoirs were drained/dry at the time of the inspections.

4.3.1 Exterior Backfill

Based on exterior and interior measurements, PSE was able to estimate an approximate backfill range at each reservoir, which has been summarized in the Table 4-3 below:

**Table 4-3
A, C, and E-1 Reservoirs Backfill Summary**

	A Reservoir	C Reservoir	E-1 Reservoir
Maximum	5'-6"	4'-0"	2'-0"
Minimum	2'-0"	3'-0"	1'-0"

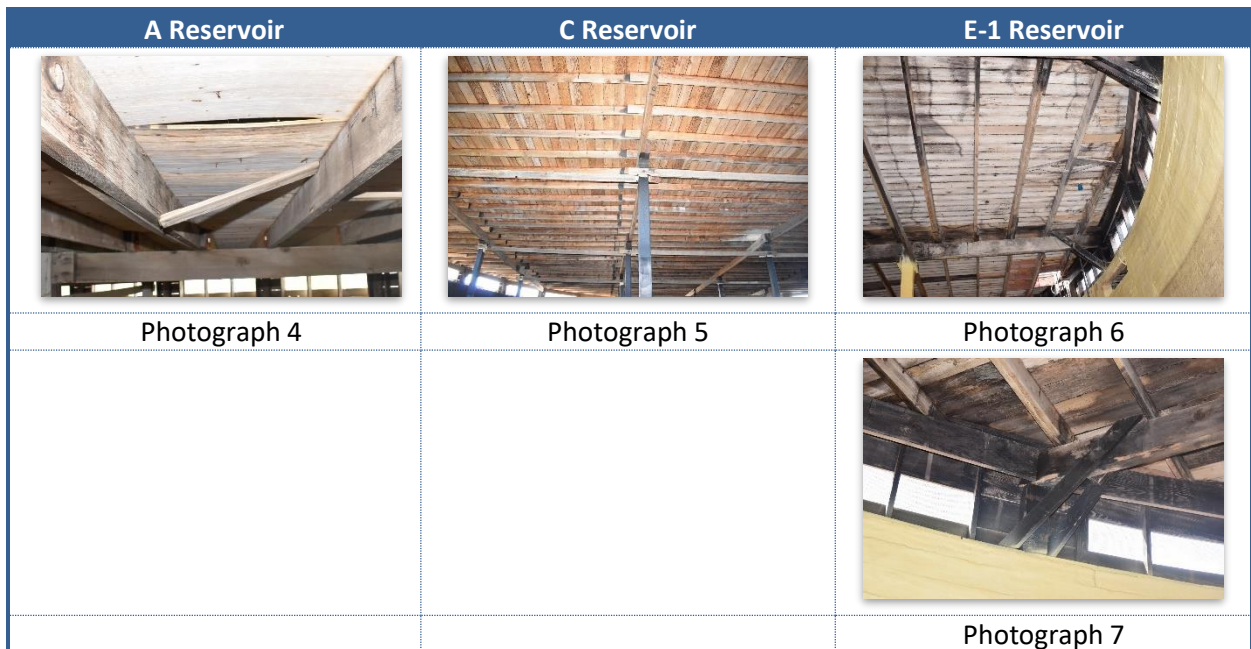
4.3.2 Roof Exterior

In general, the roof top surfaces were noted to be in poor to fair condition. The roofs are flat and consists of a built-up membrane. Visible sagging and evidence of ponding along the roof edge was observed throughout the roofs (see Photographs 1-3 below). When walking on each of the roof surfaces, it was noted to be very “springy” with areas of excessive deflection, indicating the sheathing is undersized for the framing spans or there may be damage to the sheathing or underlying framing. A Reservoir was noted to be considerably more springy than C and E-1 Reservoirs. The underlying diaphragms as observed from the interiors comprised of straight lumber sheathing on C and E-1 Reservoirs which likely contributed to the more firm walking surface, as the diaphragm at A Reservoir was observed to consist of structural sheathing. Based on the provided Santa Fe Roofing invoice number 2646 dated 6/19/2006, we understand the roof of C Reservoir should consist of 7/16” roof sheathing panels with a three-ply built-up hot mopped roof system. As part of work, we understand District Staff repaired damaged roof members prior to the installation of the new roof system atop the straight lumber sheathing of C Reservoir in 2006.



4.3.3 Roof Underside and Framing (interior)









In general, the roof framing and sheathing was noted to be in serious to poor condition. The 1x bridging between rafters was noted in a few locations (see Photographs 4 -7 below). Typically, this bridging would be installed between all roof rafters. That only a few areas of bridging were observed indicates that these members may have been removed or separated since original construction. The roof framing appears to be in general conformance with the historical drawings, with the exception of E-1 Reservoir where two 2x6 knee braces were observed between the girders and posts, one on each side (see Photograph 7).



Staining, areas of wood distress, and deterioration were noted throughout the underside of the sheathing and framing of the roof structures. Leakage through the roof membrane is evident based on the wood staining and deterioration observed (see Photographs 8-15 below). Previous replacement and/or modifications of existing roof framing members were noted at multiple locations throughout the roofs. Many of the existing roof members had been mechanically attached to new 2x wood members (a

strengthening technique commonly referred to as “sistering”), indicating that original framing members had previously required strengthening.

At the time of the inspection of A Reservoir, new 2x wood members had recently been sistered to an existing deteriorating girder and we understand additional strengthening was to be performed on a different deteriorating girder (see Photograph 10) following our inspection. Similarly, at the time of the inspection of C Reservoir, water putty was being applied to deteriorated girders, primarily as a protective coating from what appeared to be termite damage. Ends of many of the original rafters have been cut indicating previous deterioration, and subsequent alterations and strengthening, mostly by sistering of new wood members. Moisture readings taken of the wood roofs ranged from 16% to 24% at A Reservoir, 8% to 16% at C Reservoir, and 19% to 23% at E-1 Reservoir. Deterioration appears to be a combination of moisture damage and termite damage. In conjunction with the sagging observed from the rooftop, noticeable bowing of the rafters and girders was noted during the inspection. Overall, the roof framing at A Reservoir was observed to be in overall worse condition than observed at C Reservoir and E-1 Reservoir. Physical inspection of the interior roof members was limited to areas that could be accessed from a platform that was in place at the time of the inspection at A Reservoir. Close up physical inspection of the interior roof members was not performed due to accessibility and safety concerns at C and E-1 Reservoirs.

A Reservoir	C Reservoir	E-1 Reservoir
		
<p>Photograph 8</p>	<p>Photograph 11</p>	<p>Photograph 14</p>
		
<p>Photograph 9</p>	<p>Photograph 12</p>	<p>Photograph 15</p>
		
<p>Photograph 10</p>	<p>Photograph 13</p>	

4.3.4 Infill Wall

The Infill walls were noted to be in generally poor to fair conditions. The infill walls consist of a 2x8 sill plate, 8x8 posts (6x6 post at C Reservoir), and 2x studs that attach to the 2x exterior sheathing and metal cloth screen (see Photographs 16 – 18 below). While probing the wall members with a scratch awl, it was noted that the wood was “soft”, indicating that the exterior surface of the members have exhibited decay and deterioration, which may result in a loss of structural capacity of the members.



With the exception of E-1 Reservoir, the sill plate appeared to be anchored with a 5/8” diameter bolt and spaced on average at approximately 4’ on center as indicated in the historical drawings. At E-1 Reservoir, the anchors appeared to be spaced well in excess of 4’ on center and without the use of a nut or washer to create a positive connection to the wall below, indicating that the nuts may have either been lost/removed over time or potentially were not installed during construction. Surface rust and deterioration was noted at the bolts and nuts (see Photographs 19-21 below). In addition, what appeared to be signs of a termite infestation and corresponding damage was observed at the infill wall framing.



Where the 4x12 roof girders bear on the notched 8x8/6x6 wall posts, it was noted that the available notched space provided little to no bearing area for the perimeter 2x12 girders. In some cases, the 2x12 girders rely almost exclusively on nailing to the ends of the interior girders for transfer of roof loads to the posts (see Photographs 22 – 24 below). Given the deterioration of the 4x12 girder ends and the exposed shank, the connections do not appear adequate to transfer the roof loads to the posts and are a structural concern.



4.3.5 Columns

The interior concrete columns were confirmed to be 8" square in section as indicated in the historical drawings. Due to the presence of the liner around all the posts, we were not able to visually observe the condition of the concrete. The liner covers the entire column surface, thereby obstructing views to any cracking or minor deformations that may be present in the columns. However, it was noted that several of the posts had been modified/repared or showed loss of section, which appear to have occurred prior to, or at the time the reservoir walls and columns were lined (see Photograph 25 – 27 below).



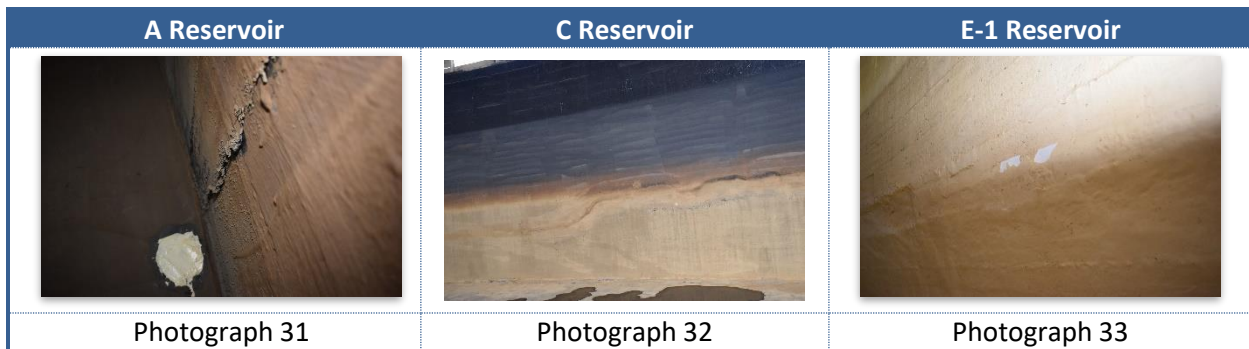
4.3.6 Slab Floor

Similar to the columns, the top surface of the interior floor slabs was observed to be coated with an interior liner, obstructing view to any minor cracking or deformations that may be present. Areas of bubbling, delamination, and patching of the liner was noted at various locations along the floors of A and C Reservoirs, typically near the base of the columns or perimeter wall (see Photographs 28 - 30). With the exception of a few areas of blistering near the perimeter wall, the liner at E-1 Reservoir appears in generally good condition.



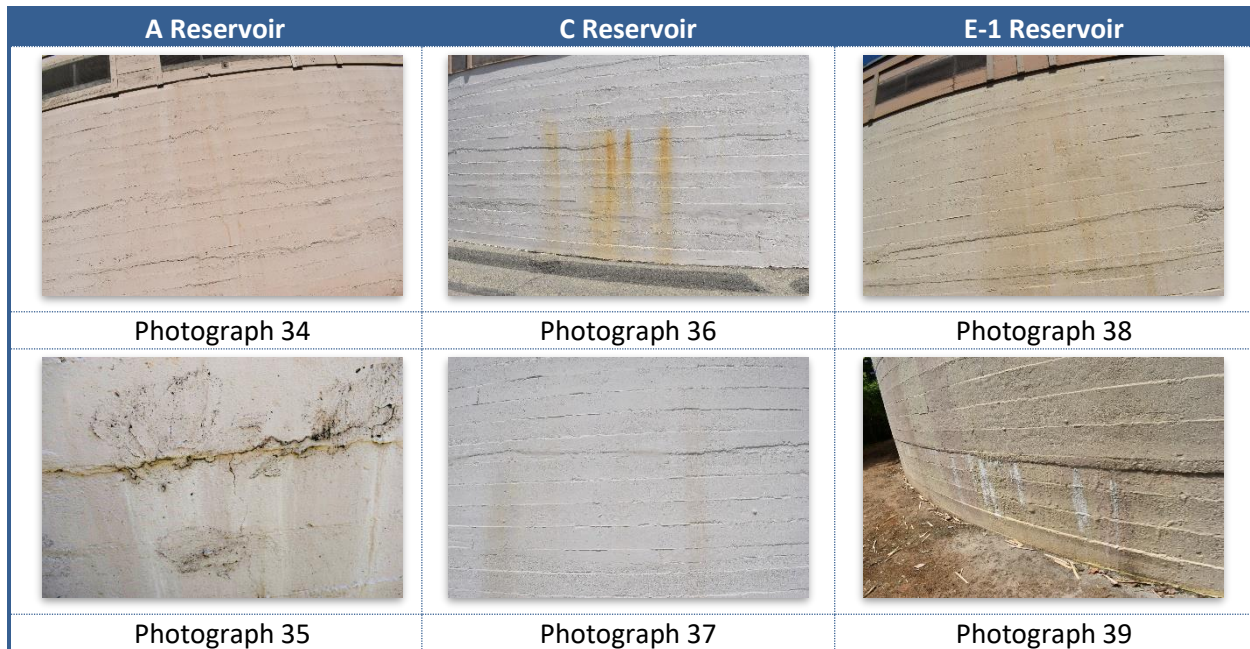
4.3.7 Reservoir Walls

Based on the areas that could be observed, the reservoir walls were noted to be in generally fair condition. The interior of the reservoir walls was observed to be coated with the same liner as the columns and slab which obstructs view to any minor cracking or deformations that may be present. Areas of bubbling, delamination, and patching of the liner was noted at various locations along the interior walls (see Photographs 31 - 33 below). The wall liner at E-1 Reservoir appeared in better condition than at A and C Reservoirs.



From the exterior, full height vertical cracks were noted in various locations along the walls, typically spaced at intervals of 8 to 10 feet on center and measured to be approximately 0.006 inches thick. Based on observations made, the cracks do not appear to be newly formed and are likely a result of temperature expansion and contraction of the concrete. Wall staining was also observed from the exterior of the reservoirs (see Photographs 34 – 39 below). This staining was determined to likely be a result of runoff from ponding and drainage issues observed at the roof, causing streaking and staining onto the exterior wall surfaces. In addition, it appears a flexible crack sealant had been previously installed at areas along some of the cold joints prior to application of the exterior paint layer, indicating active leakage may have been present or this sealant could have been installed as a preventative measure. Water staining was also noted at the south-west quadrant of the exterior wall at A Reservoir, along the bottom horizontal cold joint, approximately 24" above grade (see Photograph 35), indicating potential active leakage. The water staining was felt to be dry to the touch. However, the reservoir had been drained when this stain was observed. In addition, efflorescence (a sign of dried water seepage) was noted at the north quadrant of

the exterior wall of E-1 Reservoir, along the bottom horizontal cold joint, approximately 30" above grade (see Photograph 39). Similar efflorescence was noted in the HDR condition assessment in 2017.









4.3.8 Control Box

The condition of the reservoir control boxes varied and were noted to be in generally serious to fair conditions. With the exception of the roof framing members, the control box at A Reservoir was noted to be in serious to poor condition. Based on conversations with District staff, we understand the control box roof framing at A Reservoir was recently replaced and based on PSE's observations, appears in good condition. Concrete spalling was observed at the top of the interior control box wall (see Photograph 40), at the overflow opening (see Photograph 41) during the inspection of A Reservoir. In addition, concrete staining and discoloration was observed near the top of the exterior control box walls of A Reservoir (See Photograph 42). We understand that when the existing roof was removed, concrete was formed and poured around the top of the existing wall as part of the installation of the new roof which is the likely cause for the staining and discoloration. The rebar was exposed at the overflow opening and showed significant deterioration.

The control box interior of C Reservoir, including portions of the steel roof framing was coated with a CIM liner, visibly obstructing ability to view any cracking or deformations that may be present. However, significant cracking at the overflow opening was noted during the inspection (see Photograph 43). While the CIM liner provides a protective coating, exposed areas of steel roof framing were noted to exhibit signs of moderate deterioration (see Photograph 44).

The control box interior of E-1 Reservoir was also coated with an epoxy liner, obstructing ability to view any cracking or deformations that may be present. However, moderate to severe corrosion and section loss of the control box roof framing was noted at the time of the observation (see Photograph 45).

A Reservoir	C Reservoir	E-1 Reservoir
		
Photograph 40	Photograph 43	Photograph 45
		
Photograph 41	Photograph 44	
		
Photograph 42		

4.3.9 Appurtenances

Based on the site observations, appurtenances were found to be in generally good condition. No separation or failure of the elements were noted during the site visit, and coatings appeared intact. As such, the existing interior appurtenances appear to be functional and in good condition. Minor corrosion blooms and rusting were noted at the fixed ladders at control boxes and at the reservoir roof hatches, but the exterior appurtenances appeared in overall good condition.

4.3.10 Liner/ Coating

During the interior inspection of A, C, and E-1 Reservoirs, observations of the interior coating condition were made as follows:

A Reservoir: The existing CIM coating applied by Guardian Waterproofing & Caulking in 2007 has widespread small bubbling across the entire extent of the floor area, and also in the lower portions of the walls within about 4 vertical feet of the floor. Overall, however, the coating is in very good condition, with minimal delamination observed. See Photographs 46 and 47 below, which show the bubbling. Bubbles over ½-inch in diameter were observed only in a small number of locations along floor joints between







interior columns. Annual spot repairs are recommended until such time as the reservoir is demolished in the near future.

C Reservoir: The existing CIM coating applied in 2014 is in adequate condition for approximately 90% of the interior surface area of the walls and floors. The remaining 10% of the interior surface area has the following two main issues:

- Around the entire circumference of the entire floor area, coating patching has taken place. The coating appears to have been ponded in excessive amounts to “push” the coating into the scrim along the joint between the floor slab and the base of the wall. Thus, there is a two to three-foot wide band of built up coating around the outer portion of the floor, along the entire wall circumference. Much of this coating is cracked or delaminated. See Photograph 49 below.
- The coating is delaminated at the base of several of the interior columns. See Photograph 48 below.

Although this tank is slated for near-term demolition, it is recommended that the damaged 10% of interior concrete surface area be repaired, if the District plans to continue use of this tank past January 2021.

E-1 Reservoir: The existing Warren Environmental Epoxy applied in 2016 is in very good condition. There was only one location of observed coating delamination (less than 0.5 square feet in area). Less than 5 percent of the floor area has bubbling in the floor, but the bubbling has not resulted in any delamination. See Photographs 50 and 51 below.

A Reservoir	C Reservoir	E-1 Reservoir
		
Photograph 46	Photograph 48	Photograph 50
		
Photograph 47	Photograph 49	Photograph 51

4.4 Deodar Reservoir

PSE performed the first inspection of Deodar Reservoir on May 20th, 2020. The reservoir was full at the time and the inspection was performed from an inflatable raft to observe the interior condition of the roof framing. PSE also performed a second inspection of Deodar Reservoir on May 27th, 2020. The reservoir was drained/dry at the time of the second inspection.

4.4.1 Exterior Backfill

Exterior measurements estimated a backfill range of approximately 11'-2" inches to approximately 20'-8" +/- 6 inches around the reservoir. The reservoir is located on a sloped site, and can be accessed via private road that adjoins Deodar Road in Escondido, California.

4.4.2 Roof Exterior

In general, the roof top surface and center vent was noted to be in fair condition. Isolated damage/denting of the aluminum roof decking was noted. This damage is likely due to routine use by District staff indicating the support conditions and strength of decking is under designed for operational use. Corroded deck fasteners were noted throughout the roof structure. In addition, at ridge seams, elongated, missing, and/or sheared fasteners (see Photograph 52) were observed indicating damage due to thermal expansion of the aluminum deck.

At the drain channels, a build up of debris has formed at the perimeter ends which has allowed for growth of plant life and is impeding the drainage of the roof (see Photograph 53). In its observed condition, the drain can be expected to overflow during times of heavy rainfall, allowing for water intrusion of the exterior portions of the valley glulam beams (shown later in the report). We understand that shortly after PSE's site visit, leaves and debris were cleaned out of the drain channels. In addition, light was observed at deck seams from the interior (see Photograph 54), indicating weatherproofing and water quality concerns.



4.4.3 Roof Framing (interior)

Per the original roof system specification "all wooden roofing and roof framing material, including rafters, glue laminated beams and plywood, shall be pressure treated with pentachlorophenol". This could not be verified based on visual observations, however the use of this preservative, while common during the era of original construction, is not permitted per current design and water quality standards.

4.4.3.1 Ridge Glulam Beams

In general, the roof ridge beams as observed from the interior of the reservoir appeared in good condition. Minor water staining of the beam and CMU wall was observed (see Photograph 55) but overall the ridge beam and ridge beam connectors were noted to be in better condition than the valley and lateral Beams (described below).



4.4.3.2 Valley Glulam Beams

In general, the roof valley beams as observed from the interior of the reservoir appeared in fair condition. Water staining was observed and appeared to get progressively more severe moving from the center column to exterior wall (see Photograph 56), indicating potential drainage and/or ventilation concerns. Minor delamination was observed at the valley beams but appears to mostly be present near the wall (see Photograph 57). In some cases, it appears the laminations were strengthened by means of epoxy injection (see Photograph 58). Moisture readings of the valley beams typically ranged from 13% - 18% with the exception of the valley beam east of the entry hatch opening which, measured a moisture content of approximately 23%. While probing the beams with an awl during the full/wet inspection, the wood that could be accessed was noted to be competent.



4.4.3.3 Lateral Glulam Beams

In general, the roof lateral beams as observed from the interior of the reservoir appeared in fair condition. Water staining was observed primarily at rafter intersections and appeared to get progressively more severe moving from ridge to valley (see Photograph 59), indicating potential drainage and/or ventilation concerns. Lateral beam hardware and connections appeared in generally good condition. However, minor

deterioration was noted at some of the lateral beam hardware (see Photograph 60). Minor delamination was observed at the valley beams. In some cases, it appears the laminations were strengthened by means of epoxy injection (see Photograph 61). Moisture reading taken of lateral beams ranged from 14% - 25%.



4.4.3.4 Rafters

In general, the roof rafters as observed from the interior of the reservoir appeared in poor to fair condition. Due to the limitations of the wet/full inspection, we were unable to closely examine the condition of all the existing rafters. Water staining and deterioration was observed and appeared to be concentrated at laps above lateral beams (see Photograph 62). Rafter hardware and connections appeared in generally poor conditions with moderate deterioration noted at most connections (see Photograph 63). In some extreme cases the hardware and connections have failed completely (see Photograph 64).

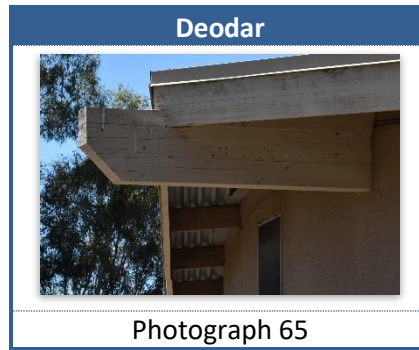


4.4.4 Roof Framing (Exterior)

Close up physical observations of the exterior roof framing were limited to areas that could be safely and easily accessed with an extension ladder.

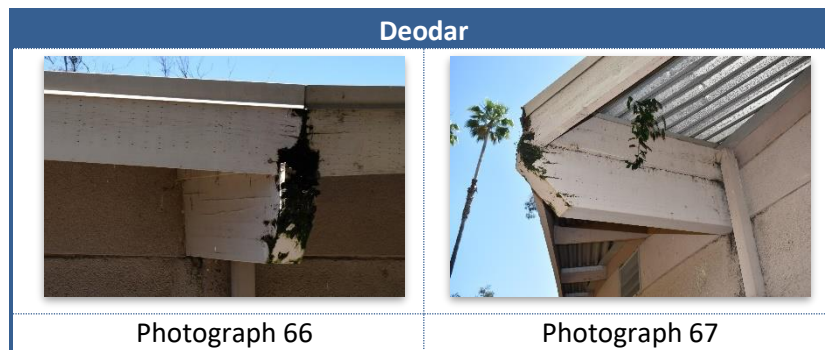
4.4.4.1 Ridge Glulam Beams

In general, the roof ridge beams as observed from the exterior of the reservoir appeared in fair condition. Checks and delamination were noted (see Photograph 65), but no visual signs of overstress were observed.



4.4.4.2 Valley Glulam Beams

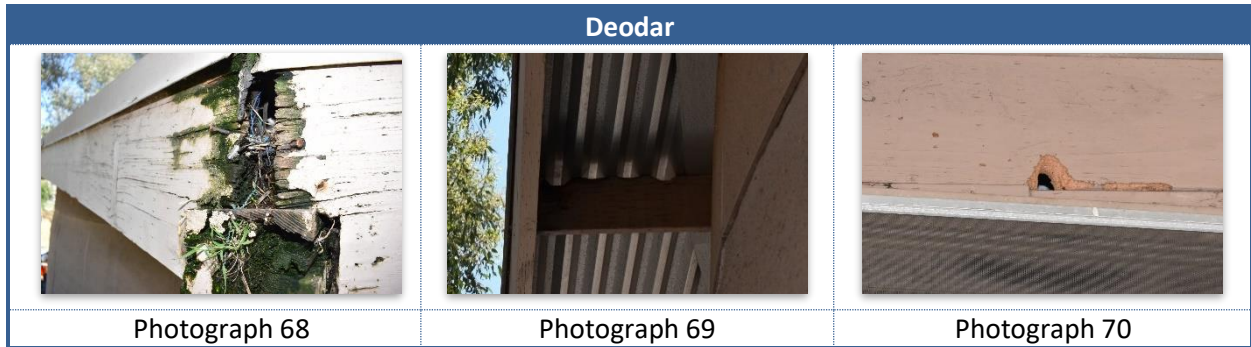
In general, the roof valley beams as observed from the exterior of the reservoir appeared in serious to poor condition. The beam ends were observed to show signs of severe deterioration with active moisture and algae growth (see Photograph 66). When probed with a scratch awl, the beam ends were noted to be very soft, allowing the awl to penetrate in excess of 1-inch. In addition, moisture readings were measured to be in excess of 39% at the beam ends. This appears to be a result of the poor drain design mentioned earlier in this report. The beams were determined to be in fair condition approximately 1-foot from the ends based on probing and moisture readings of less than 19%. However, the top surface of the glulam beam that supports the drains was not able to be observed due to the presence of wood framing (see Photograph 67) and this area may be subject to similar damage as observed at the beam ends based upon the drainage design. It was noted that the downspouts are located at the reservoir face, interior from the ends of the valleys, so the overhang portions of the valley gutter do not have any method to allow it to drain without overflowing over the end of the beam or along the length of the gutter channel. It is probable that areas of additional damage may be hidden along the top of this valley beam overhang that cannot be observed without removing the roofing in this area.



4.4.4.3 Exterior Framing

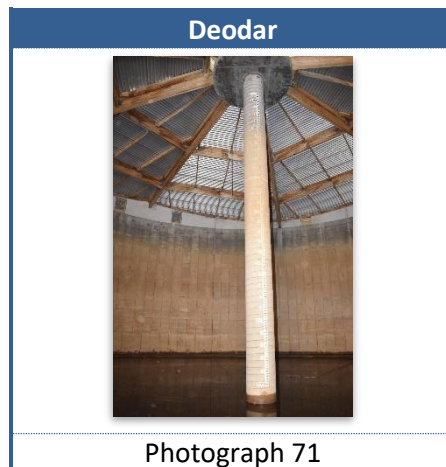
In general, the roof framing as observed from the exterior of the Reservoir appeared in poor condition with the exception of where the rim boards bear on the valley beams where signs of severe deterioration with active moisture and algae growth were observed (see Photograph 68), likely a result of the poor drain design mentioned earlier in this report. In addition, minor to moderate deterioration was noted at the overlook framing in contact with the aluminum deck (see Photograph 69). Damage at the reservoir wall

blocking was also observed from what appears to be a result of termites or local wildlife (see Photograph 70).



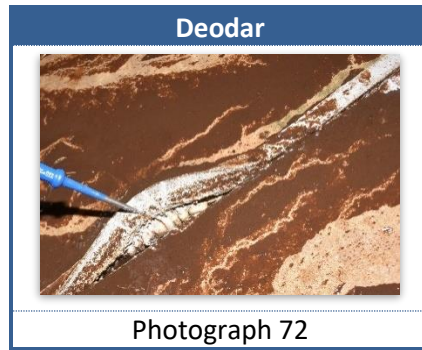
4.4.5 Column

The column was confirmed to be 30" in diameter as indicated in the historical drawings. Based on observations made during the inspection, the column appears in generally good condition (see Photograph 71).



4.4.6 Slab Floor

Based on observations made during the inspection, the base slab appears in generally good condition. However, it was noted that the slab joint filler was protruding from the joints and has likely reached the end of its useful life (see Photograph 72).



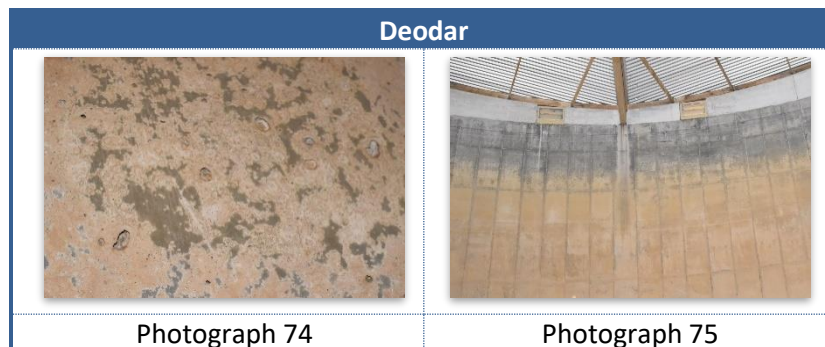
4.4.7 Concrete Masonry Unit (CMU) Walls

The CMU walls were noted to be in generally good condition. Surface staining from the interior (see Photograph 73) was noted, indicating potential drainage and/or ventilation concerns of the roof framing.



4.4.8 Reservoir Walls (interior)

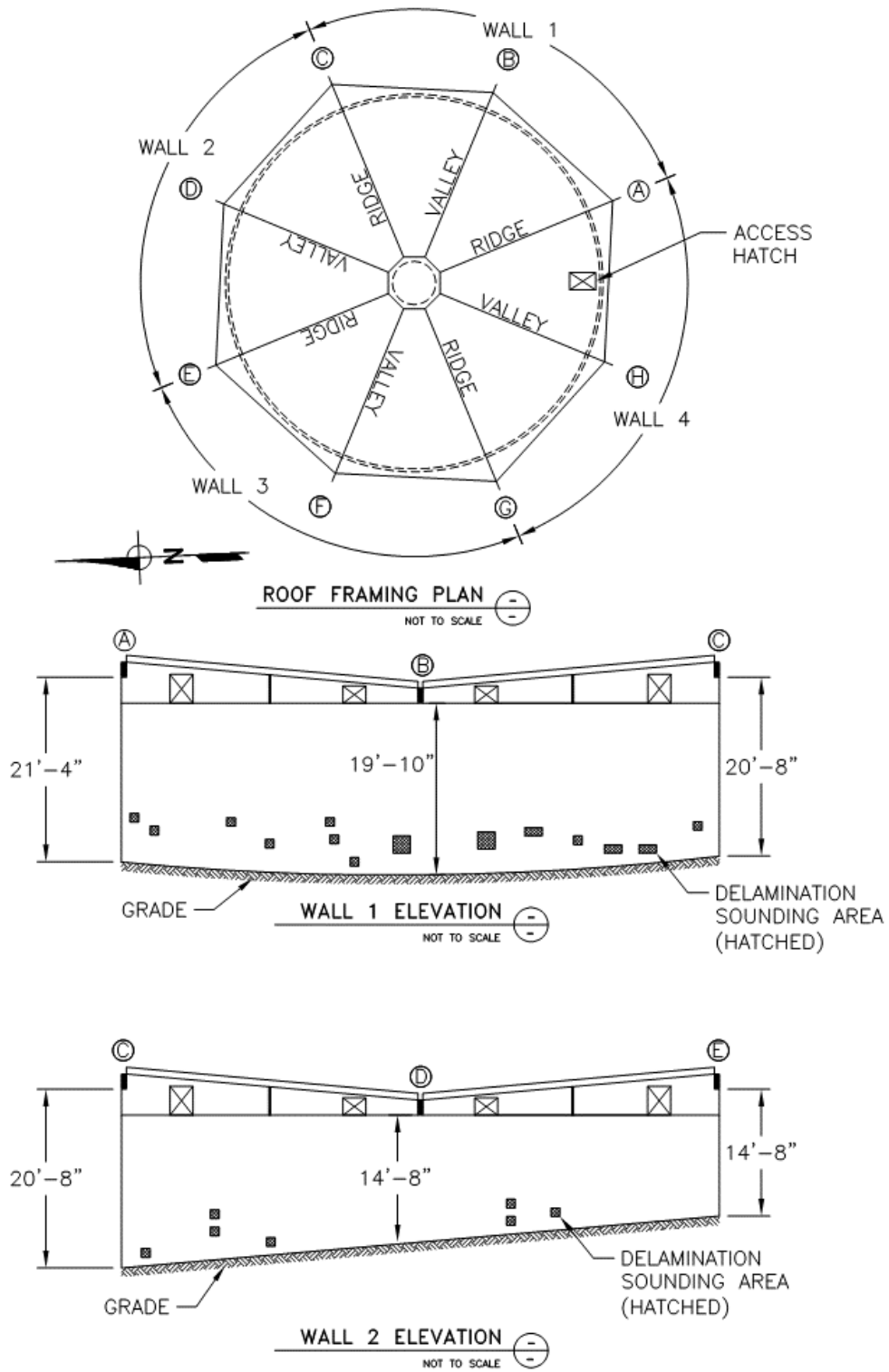
The prestressed concrete core wall was observed from the interior and was determined to be in generally good condition. Areas of pitting/bug holes (see Photograph 74) were noted during the drained inspection. In addition, water staining was noted below valley beams (see Photograph 75), indicating potential drainage and/or ventilation concerns of the roof framing.

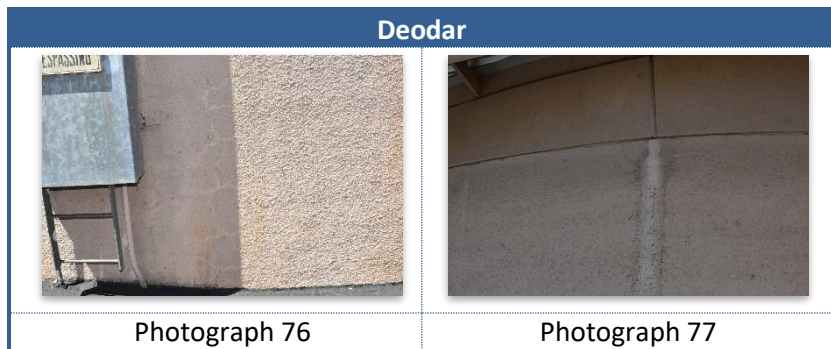
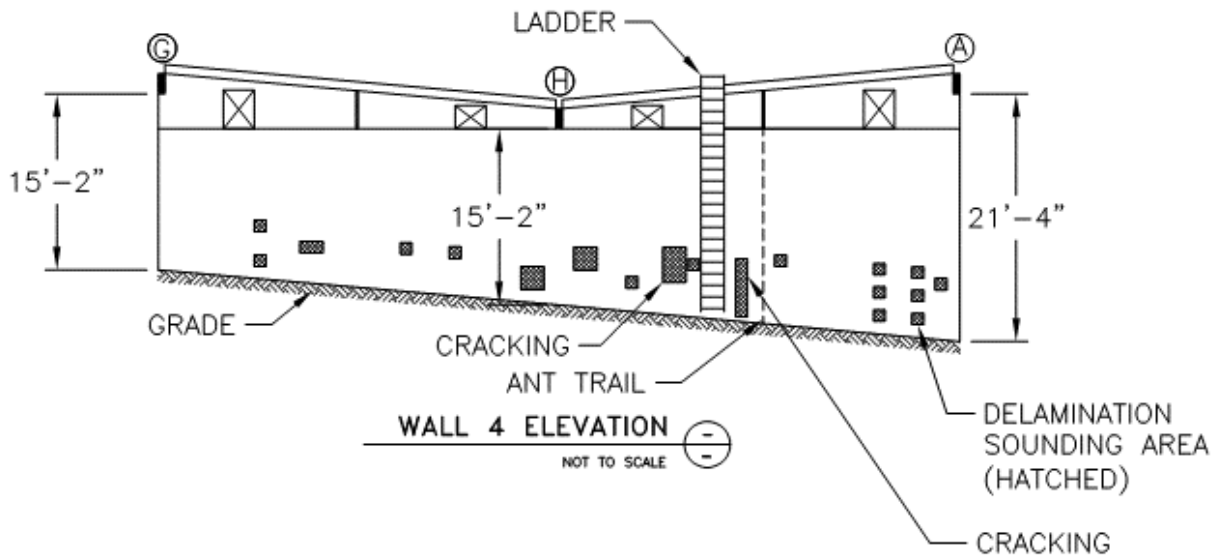
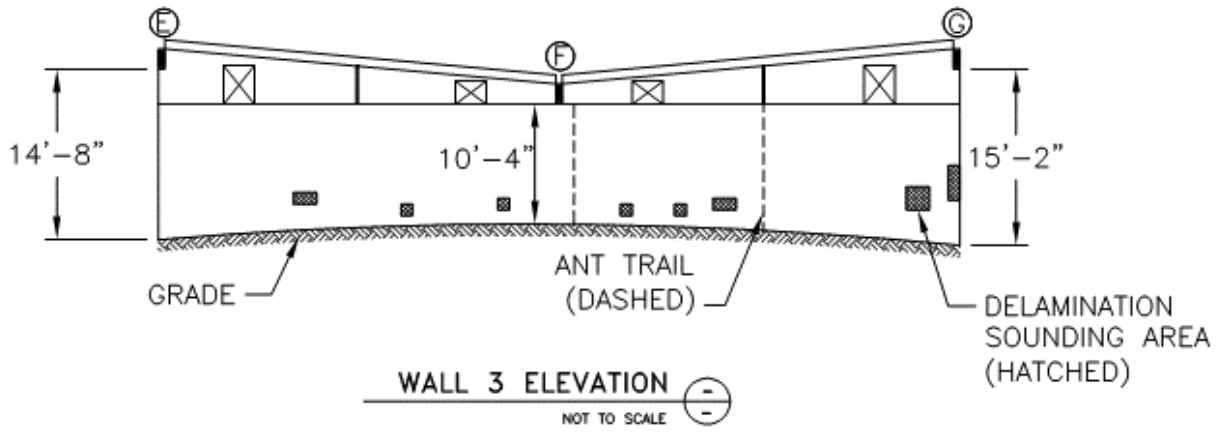


4.4.9 Reservoir Walls (exterior)

The exterior gunite wall layer was visually inspected and the bottom 7-feet sounded with a rock hammer during the drained/dry inspection of Deodar and was noted to be in generally fair condition. “Hollow” sounding areas (which identify possible gunite delamination and/or spalling that could allow water intrusion and corrosion of the circumferential prestressing wire) were noted throughout the reservoir and were observed more frequently on the south-east quadrant of the reservoir (see Figure 4-1). Additionally, minor surface cracking (see Photograph 76) was noted at some of the hollow sounding areas. Based on experience with structures of similar age and construction, the sounding results indicated that delamination has likely occurred between gunite layers and has not progressed to the prestressed galvanized strands. This delamination is likely a result of temperature expansion and contraction of the gunite and/or the result of initial imperfections during the gunite application. Delamination that is present at the prestressing material typically materializes in more significant spalling of the gunite than was observed at Deodar. Additionally, such extent of delamination is typically results in more pronounced hollow sounds when struck with a hammer. Full height vertical ant trails were noted along the wall, indicating a potential infestation of organisms that could affect the quality of the reservoir’s contents. Additionally concrete staining below CMU expansion joints (see Photograph 77) was observed indicating a potential ventilation and/or drainage concern.

Figure 4-1: Deodar Reservoir Sounding Map










4.4.10 Appurtenances

Based on our observations, the condition of appurtenances varied but was noted to be in generally fair conditions. While inside the reservoir during the dry/draind inspection, moderate surface deterioration

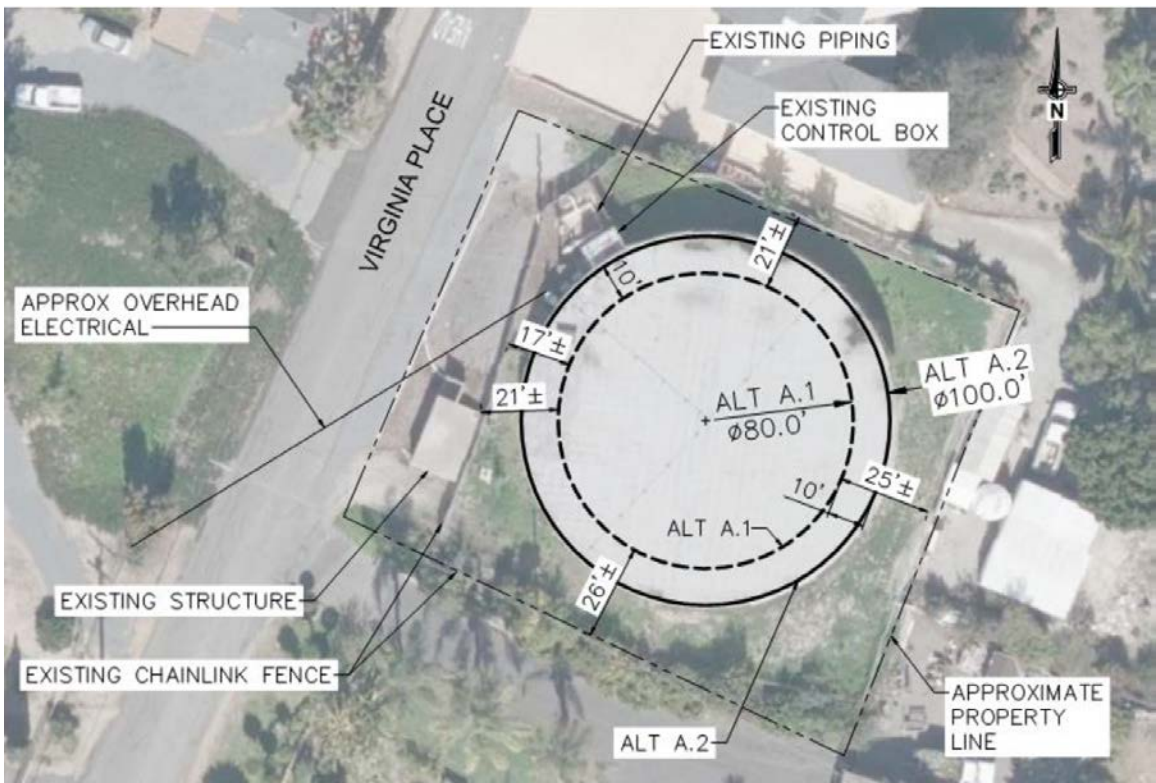
and what appeared to be previous repair work of the overflow pipe was observed (see Photograph 78). Cathodic protection has been installed to control the corrosion of the overflow pipe and other metal surfaces and we understand new anodes were to be installed following our inspection. The overflow pipe was noted to be braced near the base slab. As the base slab is seismically isolated from the tank walls, this bracing condition could result in damage to the overflow pipe if the flexible coupling joint can't accommodate the imposed seismic deflections in a large seismic event which could significantly limit the capacity or results in the loss of the full storage capacity of the reservoir in immediate post-earthquake applications. Other metal surfaces had been coated with a protective layer (see Photograph 79), obstructing the condition of these elements. With the exception of these items, the internal appurtenances appeared in generally fair condition with some minor surface corrosion noted (see Photograph 80). Valves in the valve pit are in good condition. The sacrificial anodes appear to be working well in minimizing corrosion of the valves (see Photograph 81). The exterior appurtenances were found to be in generally good condition. No separation or failure of the elements were noted during the site observation, and coatings appeared intact. Minor corrosion blooms and rusting were noted at the fixed ladder (see Photograph 82).

Deodar		
		
Photograph 78	Photograph 79	Photograph 80
		
Photograph 81	Photograph 82	

New 3.0 mg Virginia Place (A) Reservoir



New 0.8 – 1.1 mg Virginia Place (A) Reservoir



Attachment D

Excerpt from Roof Structural Assessment Report



ROOF STRUCTURAL ASSESSMENT REPORT 20 MILLION GALLON PECHSTEIN RESERVOIR



SEPTEMBER 2018 REPORT

Prepared by:

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September 28, 2018

Vista Irrigation District
1391 Engineer Street
Vista, CA 92081

Attention: Mr. Greg Keppler, PE QSD, Engineering Project Manager

**Subject: Roof Structural Assessment Report
20 Million Gallon Pechstein Reservoir
Vista, CA**

Dear Mr. Keppler,

In accordance with the contract Scope of Work, field investigation and an assessment of the subject facility has been completed. Richard Brady & Associates (BRADY) personnel performed an inspection of the roof at Pechstein Reservoir on the dates of July 12 and 17, 2018. The field investigation was performed by Amanda Del Bello, P.E., Engineer-Diver, and Garrett Murawsky, E.I.T.

EXECUTIVE SUMMARY

Inspection, assessment and structural analysis was performed by BRADY to support the development of repair recommendations related to the roof and/or complete roof replacement. This inspection and assessment was initiated based on recommendations made in the District's 2018 Master Plan. The Master Plan contained a Reservoir Condition Assessment of Pechstein Reservoir which included recommendations for further investigation which included the following: "Perform a detailed condition assessment of the reservoir interior, ...reservoir roof replacement [investigation], and perform a seismic evaluation of the reservoir to determine...compliance with current seismic code." As a result BRADY was tasked with conducting a visual inspection of the roof interior as it relates to repair or replacement of the roof, review of historical documents and a structural evaluation to assess whether the reservoir meets current structural/seismic design code requirements. This reports presents the findings and includes recommendations for roof replacement, a cost estimate and anticipated schedule.

This inspection and assessment determined the existing roof system is structurally deficient. Structural analysis was performed on the reservoir walls and foundations to determine whether the existing reservoir meets current code requirements. The analysis determined that the reservoir perimeter wall and foundation do not meet the requirements of the current code. Although deficiencies were found, it

is our opinion that the reservoir has adequate structural capacity below the existing roof to support an aluminum dome roof.

The reservoir prestressed walls are in good condition overall and are capable of providing an additional 50 years of service life, provided the existing roof is replaced with a lighter aluminum dome replacement roof.

A cost estimate was performed for demolition of the existing roof system and costs associated with installation of a new aluminum dome roof only. This cost for the recommended roof replacement work is \$11.05 million and the expected out of service construction time is 10 months. These costs do not include any other improvements needed for the reservoir including those identified in the Master Plan. The recommendations made in the Master Plan would require further investigation as part of an overall design for the roof replacement project. Temporary repairs could be made to maintain the reservoir in service until a long term improvement can be made. Further investigation would be required, including core sampling of the glulam valley beams near the perimeter wall in order to come up with a temporary repair design. Maintenance repairs can also be made including replacing simpson connectors and patching the roof deck. No costs are provided for these repairs because it was not included in the scope of this effort.

REFERENCE DOCUMENTS

The following documents were considered as part of this investigation:

1. Record drawings titled, "Filtered Water Storage Project of 1976", dated October 1976, prepared by James M. Montgomery, Consulting Engineers, Inc. See Appendix D for excerpts from the full set of drawings pertinent to this assessment.
2. Geotechnical report titled, "Geotechnical Investigation for 20 Million Gallon Pechstein Reservoir San Marcos, California, dated April 1976, prepared by Robert Prater Associates.
3. Appendix B of the District's 2018 Master Plan titled, "Reservoir Condition Assessment, Vista Irrigation District", dated October 26, 2017, prepared by HDR Engineers.
4. Miscellaneous historical documents related to previous investigations and repairs provided by Vista Irrigation District, see Appendix E for documents and "Background Information and History" section of this report for a summary.
5. Original construction shop drawings titled, "20 MG Reservoir", dated March 1, 1976, prepared by DYK BBR Prestressed Tanks, Inc. Included in Appendix D – Record Documents.

DESCRIPTION OF FACILITY

Pechstein Reservoir is a 20 million gallon (MG) reservoir owned and operated by the Vista Irrigation District (VID) and is located at 3784 Bluebird Canyon Road, Vista, CA, see Figure 1 of Appendix A – Location and Vicinity Map. The reservoir, designed in 1976, is a partially buried, prestressed concrete reservoir with a 355-ft interior diameter according to Reference Document No. 1 (Reference Document No. 5 indicates 351-ft interior diameter); see Photo 1. The reservoir perimeter wall is an 18-in. thick cast-in-place (CIP) concrete core wall with a 2-in. thick layer of shotcrete on the exterior. The CIP wall

incorporates 1.25-in. diameter prestressed vertical tendons in the center of the wall and 3/8-in. diameter seven wire strand seismic restraint cables located 5-in. from the exterior face of the CIP wall. Circumferential prestressing reinforcement (3/8-in. diameter seven wire strands) surrounds the CIP walls which are covered by the 2-in. thick layer of shotcrete. The spacing and quantity of circumferential prestressed reinforcement is determined as a function of the wall height and required prestress per foot of wall height.

The CIP core wall is 28 feet tall of which approximately 21-ft is buried. Above the CIP wall is a nominal 8-in. reinforced concrete masonry unit (cmu) wall with 3/4-in. thick stucco exterior and louvers spaced every 14 feet. The wall elevation varies (3 courses high to 11 courses high) to support eight valley and eight ridge roof beams, see Photo 2. At the center of the reservoir there is a roof vent cupola structure, the highest point at 24.33-ft above the finished grade around the reservoir.

The valley and ridge roof beams are glued laminated (glulam) timbers placed in a radial direction around a 4-ft diameter center CIP concrete column and a 20-ft diameter CIP concrete platform, see Photo 3. The glulam ridge and valley beams extend from the center platform of the reservoir to the exterior of the perimeter wall (Photo 4) and are supported intermediately by three concentric circles of 2-ft diameter CIP concrete columns. Mid-way between the ridge and valley beams there are a total of 16 glulam beams extending between the exterior concentric circle of columns and the cmu wall.

The ridge and valley beams support 12 glulam purlins in the transverse direction. The purlins support 2"x10" rafters at 7-ft on center and corrugated aluminum roofing. The glulam framing plan can be seen in Figures 2 and 3 of Appendix A where the radial glulam beams are labeled one through 32 and transverse purlins A through L. This nomenclature system will be used to identify location of defects in this report.

Attachment E

Excerpt from Potable Water Master Plan



Potable Water Master Plan

Vista Irrigation District

Committed to Supplying High Quality Water in an Economically and Environmentally Responsible Way

April 9, 2018



Executive Summary

The purpose of this Potable Water Master Plan is to provide a comprehensive review of the Vista Irrigation District's potable water supply and distribution system and develop a structured program to identify system improvements necessary to meet existing and future demand conditions. System improvements are identified through a condition assessment of existing facilities and distribution system hydraulic analyses. This effort includes an updated and calibrated hydraulic model that accurately reflects the current distribution system demands and operating parameters.

Service Area and Water Demands

The District's service area encompasses property within the City of Vista, the City of San Marcos, and the County of San Diego. Each of these agencies has adopted a General Plan document that is incorporated into a regional planning database. This database is utilized in this Master Plan for understanding water usage based on land-use and developing unit demand factors for estimating future water demands.

The District's historical water use has varied significantly over the past 30 years, reaching a peak in 2004, with current demands dropping below those seen in 1986. The downward trends over the past 10 years can be attributed to a number of factors ranging from economics, weather, adoption of increased water conservation measures, and mandated restrictions. Due to these factors, the build-out demand projection in this Master Plan is 25 percent less than that estimated in the 2000 Master Plan; and as a result, very little expansion based projects are identified and the Capital Improvement Program instead focuses on system reliability and redundancy, in addition to pipeline replacements.

Water Supply Reliability

The District maintains capacity rights from two sources, raw water treated at the Escondido-Vista Water Treatment Plant located at Lake Dixon and multiple treated water connections along the San Diego County Water Authority's aqueducts. Due to reduced costs, the District typically maximizes the locally treated water supply and relies on the 11-mile Vista Flume for conveyance into the District. During a planned 10-day shutdown along the Second Aqueduct, the District is dependent on the Vista Flume. With the Flume approaching its useful life, this Master Plan reviews and outlines a number of recommended alternative projects for further study that can add redundancy, reliability, and operational flexibility to offset the Flume being out of service either short term or long term.

Pipeline Condition Assessment and Replacement Strategy

A detailed pipeline condition assessment is presented in this Master Plan that provides an overall system risk assessment along with several investment scenarios that estimate how various funding levels will impact future service levels. This assessment provides a tool for the District to strike the appropriate balance between affordability and sustaining desired service levels and also focus those investments to ensure ratepayers realize the greatest return on their investment.

Reservoir Condition Assessment

Condition assessment inspections of 10 of the District's 12 potable water reservoirs were completed to document the current condition of the civil site, corrosion, and structural aspects of the reservoirs. The findings of the inspection of the District's reservoirs were used to recommend and prioritize improvements for the rehabilitation or replacement of reservoir equipment and identify any additional assessments required.

Capital Improvement Program

An updated Capital Improvement Program has been developed based on redundancy or replacement and rehabilitation improvements for the existing distribution system and an ultimate system based on projected buildout demands. The recommended projects are shown in **Figure ES-1**, and estimated costs are provided in **Table ES-1**.

Resulting System Deficiencies

Implementing the VID 9 and VID 11 redundant water supply alternatives results in acceptable operating pressures but also creates pipe velocities above the evaluation criteria of 8 fps under ultimate PHD conditions. Further study is required to assess specific demand conditions and mitigation measures that could alleviate these high velocities. Pipes experiencing high velocities include the following.

- 18-inch diameter pipe in Edgehill Road
- 20-inch diameter pipe Mango Glen to Catalina Heights Way
- Various pipes in Buena Creek Road
- 14-inch feed into HB Reservoir

8.3 Storage Assessment

The required reservoir storage based on ultimate system demands and the storage criteria defined in **Chapter 4** is presented in **Table 8-3**. The storage assessment is based on ultimate demands and storage for each zone. Projected ultimate demands were estimated using the methodology discussed in **Chapter 3** and allocated to pressure zones based on land use type. It was also assumed that zones with excess capacity would supplement storage deficiencies in other zones. As with the existing storage assessment discussed in **Chapter 7**, the ultimate system storage assessment presented in **Table 8-3** does not account for storage required during Water Authority aqueduct shutdowns.

Based on the required storage calculations, the ultimate system is projected to have a storage deficit of 3.88 MG. As with the existing system storage assessment, the 707, 637, 752, and 565 zones are projected to have insufficient storage based on projected demands. The remaining zones have excess capacity, notably the 837 zone has significant excess storage capacity in Pechstein Reservoir.

The 2000 Master Plan recommended the construction of a 20 MG Pechstein II Reservoir to address the projected ultimate system deficiency and additional emergency storage. The proposed Pechstein II location, adjacent to the existing Pechstein Reservoir location, is advantageous based on the availability of District owned land to accommodate such a large reservoir, and its elevation. This would also allow the District to take the existing Pechstein Reservoir off line for rehabilitation. Additional storage serving the 837/810 zone would provide flows to all the lower zones projected to have storage deficiencies in the ultimate system. Any additional storage would need to have an operational capacity of at least 3.88 MG in order to offset the projected ultimate system storage deficiency.

Reservoir E is being considered for near term replacement. In 1995, the proposed replacement project consisted of a 146-diameter, 38-foot-high, 4.4 MG prestressed concrete reservoir, as discussed in **Chapter 4**. This reservoir would enhance emergency supply within the E zone, which requires 4.98 MG in the ultimate system. However, this site is significantly constrained by neighboring residences and sensitive habitat. Alternatively, the District's total storage deficit would be offset with the addition of a Pechstein II Reservoir project.

Table 8-3. Ultimate System Storage

Major Pressure Zone	Zone Grade (Feet)	AAD ¹		MDD ² (MGD)	Storage Criteria ³						Reservoir	Existing Operational Storage (MG)	Surplus (Deficit) (MG)
		(gpm)	(MGD)		Operational (Gallons) +	Fire (Gallons)	or	Emergency (Gallons)	=	Total (MG)			
HB Zone	984, 900	1,233	1.78	3.55	355,029	300,000		3,550,286		3.91	HB	4.05	0.14
HP Zone	976	212	0.31	0.61	61,098	300,000		610,980		0.67	HP	4.30 ⁴	3.63
AB/HL Zone	837	2,770	3.99	7.98	797,722	540,000		7,977,218		8.77	Pechstein	18.50	9.73
810, F Zone	810, 668	1,136	1.64	3.27	327,179	540,000		3,271,790		3.60	H	5.00	1.40
707 Zone	707, 630	1,890	2.72	5.44	544,197	735,000		5,441,972		5.99	A	0.60	(5.39)
CX Zone	637	1,237	1.78	3.56	356,209	540,000		3,562,086		3.92	C	0.60	(3.32)
E Zone	752	1,571	2.26	4.52	452,444	540,000		4,524,438		4.98	E	1.20	(3.78)
550 Zone	550	711	1.02	2.05	204,855	735,000		2,048,550		2.25	LH	3.00	0.75
E-1, E-2 Zone	565, 486	3,154	4.54	9.08	908,438	735,000		9,084,379		9.99	SLR, E1	3.20	(6.79)
Totals		13,914	20.04	40.07	4,007,170	4,965,000		40,071,700		44.08		40.45	(3.63)

¹ Buildout demands based on SANDAG Series 13 Planned Land Use and Unit Demand Factors rounded up to the nearest 50. Projected demands represent increased demand density compared with existing demands.

² MDD = 2 x AAD

³ Total = Operational + larger of Fire or Emergency Storage Criteria'

Operational = 0.1 x MDD

Fire = Fire flow and duration per requirements in **Table 4-3**, including 2,500 gpm for 2 hours (300,000 gallons) in wild fire interface areas.

Emergency = 2 x AAD

⁴ HP Reservoir volume, as rehabilitated in 2017.

AAD – average annual demand; MDD – maximum day demand; gpm - gallons per minute; MG – million gallons; MGD – million gallons per day

Attachment F

Excerpt from San Luis Rey Indian Water Rights Settlement Agreement

Implementing Agreement Among Escondido, Vista, the Indian Water Authority, and La Jolla, Rincon, San Pasqual, Pauma and Pala Bands of Mission Indians

4(e) of the Federal Power Act [16 U.S.C. §797(e)] and under any other applicable law and that no other conditions are required or shall be imposed.

5.C. San Pasqual Undergrounding Project. The San Pasqual Undergrounding Project will remove, relocate, and replace with an underground pipeline most or all of that portion of the Escondido Canal and its appurtenant structures, facilities, and rights-of-way that currently occupy land within the San Pasqual Reservation. The San Pasqual Undergrounding Project includes reclamation of the land occupied by the replaced canal by means of demolition, debris removal, grading, and reestablishment of drainage, as well as any associated mitigation of environmental impacts that may be required.

5.C.1. Local Entities to Implement. Escondido and Vista shall be jointly responsible for implementing the San Pasqual Undergrounding Project, the cost of which will be equally divided between them.

5.C.2. Cooperation by San Pasqual and Grant of Easement. San Pasqual will cooperate with and support Escondido and Vista in the implementation of the San Pasqual Undergrounding Project. In addition, San Pasqual will consent to the grant of an easement for the portion of the San Pasqual Undergrounding Project that will occupy San Pasqual Reservation land. There will be no charge for the easement.

5.C.3. Local Entities to Provide Access. In order to provide San Pasqual access to Local Exchange Water from the San Pasqual Undergrounding Project, during construction of the San Pasqual Undergrounding Project Escondido and Vista will install at their expense four stub sections of pipeline capped with blind flanges. The location of the four stub sections will be determined by San Pasqual in consultation with the Local Entities. In addition, San Pasqual will otherwise be provided access to Local Exchange Water from the Escondido Canal and the San Pasqual Undergrounding Project pipeline south of the northern boundary of the San Pasqual Reservation pursuant to the terms of this Agreement.

5.C.4. Schedule for Completion of Project and Remedies. Subject to Uncontrollable Force, the Local Entities shall implement the San Pasqual Undergrounding

Implementing Agreement Among Escondido, Vista, the Indian Water Authority, and La Jolla, Rincon, San Pasqual, Pauma and Pala Bands of Mission Indians

Project in good faith and with reasonable diligence. The Local Entities shall use their best efforts to complete the San Pasqual Undergrounding Project not later than six years from the Effective Date. If the Local Entities have not completed the San Pasqual Undergrounding Project within six years of the Effective Date, and to the extent that they have not been impaired by Uncontrollable Force, the Local Entities agree to compensate San Pasqual at the rate of \$1,000 per day from the expiration of the six-year deadline. Upon completion of the San Pasqual Undergrounding Project, no further charges shall be paid by the Local Entities to San Pasqual.

5.D. Indian Water Authority to Receive Parker-Davis Benefits for First 20 Years.

The Indian Water Authority is entitled to all of the economic benefits from the initial 20 year allotment of Parker-Davis power from the Western Area Power Administration commencing October 1, 2008. Subsequent to the Effective Date, these economic benefits will be used for water supply, quality, infrastructure and other water-related operations and improvements.

5.D.1. Allocation of Parker- Davis Benefits After the First 20 Years. At the end of the initial 20 year term, the Indian Water Authority, the Bands, Escondido and Vista will jointly apply in good faith for a renewal of the Parker-Davis allotment. Whatever allotment is obtained, the economic benefits will be divided 50% to the Indian Water Authority and Bands, 25% to Escondido, and 25% to Vista. The Indian Water Authority will use its and the Bands' share of the economic benefits for water supply, quality, infrastructure and other water-related operations and improvements and Escondido and Vista will each use their shares of the economic benefits for the Local Water System. In addition to this joint application for Parker-Davis power, each Party may make and pursue its own separate application(s) for any other allotments of Parker-Davis power after the initial 20 year allotment that commences October 1, 2008. This section 5.D.1 shall not apply if and when the Local Entities exercise their right under Article XI to discontinue their responsibility to operate the Local Water System.

Attachment G

Capital Assets Current Value

Annual ENR cost Tier 1 Rate

Type	Annual Cost
Bldg	970,972
Canals	380,262
Const	356,268
Copiers	7,026
Dam	1,067,362
Filt Plant	819,423
IT	118,860
Land	
Misc	116,708
Pipe	3,886,379
Pipe Contr	1,905,077
Pump Sta	109,779
Reg Sta	100,534
Res	671,692
SCADA	57,526
Trt Plant	60,974
Trucks	565,722
Valves	13,088
Vehicles	37,522
Total	11,245,174

Annual ENR cost Tier 2 Rate

Type	Annual Cost
Wells	621,449
Flume	1,064,160
Pechstein II New	300,000
Tier 2 additional	1,985,609
Total All	13,230,783

Vista Irrigation District
CAPITAL PROJECTS
Projects for Fiscal Years 2022 to 2050

Infrastructure	Current Year						
	Base Cost*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
E. Reservoir Replacement/Upsize/Pump Station	11,500,000	3,000,000	2,842,878	4,007,582	2,209,565	-	-
Main Replacement Program	50,000,000	2,500,000	2,584,435	2,671,721	2,761,956	2,855,238	2,951,670
Vista Flume Rehabilitation	120,000,000	750,000	723,642	-	-	-	-
Paseo Santa Fe Project	428,611	225,000	-	-	-	-	-
Well Field Repair/Replacement (65%), Siphon reha	6,956,076	200,000	516,887	-	-	-	-
Deodar Reservoir	1,350,000	135,000	51,689	336,637	939,065	-	-
Calle Maria Pipeline Extension	200,000	100,000	103,377	-	-	-	-
Pechstein II Reservoir	9,000,000	-	465,198	480,910	1,789,747	3,700,388	3,825,365
A Reservoir	5,000,000	-	258,443	267,172	994,304	2,055,771	2,125,203
Pechstein Rehabilitation Roof	14,100,000	-	-	-	-	799,467	826,468
Pechstein Reservoir Secondary Feed	5,100,000	-	-	-	-	-	-
CO SD, S. Santa Fe Ave - Widening Project	4,110,549	-	-	-	-	-	-
San Marcos, S. Santa Fe Wide - Smilax to Bostick	256,909	-	-	-	-	-	-
Robelini/Buena Creek Pipeline	3,773,638	-	-	-	-	-	-
Valve Rehab on Dam Outlet	220,942	-	-	-	-	-	-
Santa Fe - Civic to Postal	940,000	-	-	-	-	-	-
HB Pipeline	872,314	-	-	-	-	-	-
H Line Aband. - Pechstein to E Reservoir	719,346	-	-	-	-	-	-
900 Zone Feed Regulator and Pipe	600,000	-	-	-	-	-	-
Habitat Conservation Plan	544,648	-	-	-	-	-	-
637 Zone Feed Vault and Regulator	300,000	-	-	-	-	-	-
C Reservoir Demo and PRV Feed Upgrade	800,000	-	-	-	-	-	-
E-1 Reservoir Demo-565 Zone PRV	1,800,000	-	-	-	-	-	-
Total Infrastructure	238,573,033	6,910,000	7,546,550	7,764,022	8,694,637	9,410,864	9,728,705
Non Infrastructure	16,076,085	519,000	549,306	567,858	587,037	606,864	627,360
San Pasqual Undergrounding (50%)	25,051,715	8,000,000	17,162,420	-	-	-	-
Total	279,700,833	15,429,000	25,258,275	8,331,880	9,281,674	10,017,727	10,356,065

*Current Year Base Cost represents the current cost of identified projects to be completed sometime before Fiscal Year 2050. The values starting in Fiscal Year 2023 are adusted for inflation (projected to be 3.38%). Fiscal Years 2028 to 2050 are not shown in detail on this Attachment since this rate increase is designed to only cover capital expenses through Fiscal Year 2027.

Vista Irrigation District RESERVE POLICY

The District has established certain reserves to meet its internal requirements, its external legal requirements, and to provide savings to pay for replacement and/or repair of District facilities and properties due to natural disasters and emergencies. The dollar amount of each reserve account is based upon a particular formula which is reviewed and adjusted annually. The efficient and discrete use and management of these reserves, when combined with appropriate security measures, assure the District and its customers that the current levels of service, reliability and quality will continue into the future.

Working Capital Reserve

The purpose of the Working Capital Reserve is to protect the District's ability to have enough funds to meet its most basic and common financial obligation against operating revenue and expense variances, such as reduced water sales, tax and investment revenues, and/or increased operating expenses, such as extraordinary measures necessary as the result of unforeseen climatic, operational and economic conditions. This reserve represents 20% of the District's annual water sales.

Emergency and Contingency Reserve

The purpose of the Emergency and Contingency Reserve is to have savings to pay for unanticipated expenses resulting from emergencies including, but not limited to, earthquakes, floods, winds, fires, and damages to or destruction of District facilities and properties. This reserve represents 10% of the District's capital assets, net of accumulated depreciation.

Water Purchase Stabilization Reserve

The purpose of the Water Purchase Stabilization Reserve is to accumulate the necessary funds during wet years to help offset the financial burden sustained during dry years. In years that local water production is in excess of the historical average production, the Water Purchase Stabilization Reserve is funded by transferring the value of the excessive local water. In years that local water production is less than the historical average, a transfer of funds equal to the current cost of imported raw water multiplied by the shortfall of local water production is made to avoid an increase in water rates.

EXHIBIT A

VID Water Rate Study

November 3, 2021

Presentation Outline

- Water Rate Study Methodology
- Capital Improvement Reserve Fund
- Potential New Tiered Allotment with New Water Rates
- Potential Current Tiered Allotment with New Water Rates
- Potential Flat Rate
- Potential Scenarios Compared by Meter Size

Water Rate Study Methodology

Five-Year Projection – Current Water Rates

	Budget	Projected	Projected	Projected	Projected	Projected	Total
Financial	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	
Revenue Water Sales/Emergency Storage Fee	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	\$ 34,121,000	
Revenue Service Fee	17,500,000	17,957,533	18,491,583	19,107,992	19,744,948	20,403,137	
Revenue All Others	3,241,900	3,473,430	3,548,193	3,635,110	3,724,309	3,815,850	
Revenue Total	54,862,900	55,551,962	56,160,776	56,864,101	57,590,257	58,339,987	
Expenses less Depreciation	44,682,700	45,186,674	45,783,333	46,466,237	47,098,503	47,740,734	
Net	10,180,200	10,365,288	10,377,443	10,397,865	10,491,754	10,599,253	
Capital Projects	15,429,000	25,258,275	8,331,880	9,281,674	10,017,727	10,356,065	
Contribution to or (Use of) Capital Improvement Reserves	(5,248,800)	(14,892,987)	2,045,563	1,116,191	474,027	243,188	(16,262,819)

Projected Reserve Balance as of 06/30/27

Cash Balance Actual 06/30/2021	Amount
Emergency and Contingency Reserve	\$ 10,000,000
Working Capital Reserve	10,000,000
Surplus Supplemental Water	4,595,222
Water Rebate	1,571,006
Capital Improvement Reserve	20,346,496
Total Cash Balance	46,512,724
Capital Improvement Reserve 06/30/2021	\$ 20,346,496
Contribution to or (Use of) Capital Improvement Reserves through Fiscal Year 2027	(16,262,819)
Projected Capital Improvement Reserve Balance as of 06/30/2027	4,083,678

- Projection is based on FY 2022 Budget.
- Uses average CPI to project forward.
- Purchased water expense and water rates held constant since Water Authority increases/decreases are passed through to customers.
- Assumes CPI to service fees annually.

Capital Improvement Reserve Fund

- Currently no required Capital Improvement Reserve Funding level.
- To calculate an annual minimum Capital Improvement Reserve Fund, current asset values were adjusted by ENR to 2021 year values and divided by each assets life to determine each assets an annual value.
- Analysis shows a minimum of \$13.2 million should be maintained in the Capital Improvement Reserve Fund.

Capital Assets Current Value	
Type	Annual Cost
Bldg	970,972
Canals	380,262
Const	356,268
Copiers	7,026
Dam	1,067,362
Filt Plant	819,423
IT	118,860
Land	
Misc	116,708
Pipe	3,886,379
Pipe Contr	1,905,077
Pump Sta	109,779

Reg Sta	100,534	
Res	671,692	
SCADA	57,526	
Trt Plant	60,974	
Trucks	565,722	
Valves	13,088	
Vehicles	37,522	
Wells	621,449	Potential Tier 2
Flume	1,064,160	Potential Tier 2
Pechstein II New	300,000	Potential Tier 2
Total	13,230,783	

Potential New Tiered Allotment with New Water Rates

Tiers updated using 2009 methodology-

- 3/4 meter 50% average usage is Tier 1 limit; used FY 2019 actual water consumption.
- Hydraulic capacity of other meter sizes used to determine their respective Tier 1 allotments.
- Keep Tier 2 maximum and Tier 3 at current allotments.

Meter Size	Current Tier 1 Allotment	Proposed Tier 1 Allotment	Difference
5/8	7	4	3
3/4	10	6	4
1	25	15	10
1 1/2	50	30	20
2	80	48	32
3	160	96	64
4	250	150	100
6	500	300	200
8	800	480	320
10	1150	690	460

	Current State	Proposed New Tier 1 Allotment
Water Sales Billed	Acre Feet	Acre Feet
Tier 1	8,354	5,012
Tier 2	6,751	10,093
Tier 3	695	695
Total	15,800	15,800

Potential New Tiered Allotment with New Water Rates (continued)

- Allow the automatic pass-through of all San Diego County Water Authority fees and charges for wholesale water and water related services.
- Allow an inflationary adjustment to District water rates annually on July 1; forgo the increase on 07/01/22.
- Effective on bills mailed after 03/01/22, increase the Tier 1 water rate to \$4.76; Tier 2 water rate to \$5.23; Tier 3 water rate to \$5.23.
- Increase Service Charge for inflation.

Service Charges		
Meter Size	Currently Monthly Charge	Proposed Monthly Charge
5/8	\$ 31.75	\$ 32.82
3/4 & 3/4 1	41.88	43.30
1	61.89	63.98
1.5	112.34	116.14
2	172.66	178.50
3	333.57	344.85
4	514.49	531.89
6	1,218.45	1,259.65
8	1,620.90	1,675.71
10	2,425.46	2,507.47

Potential New Tiered Allotment with New Water Rates (continued)

Average 2 month Bill Example 3/4" METER - CURRENT CHARGE				2 Month Bill							
Tier	Usage	Rate	Charge	Tier	Usage	Rate	VID Increase	Rate pass-through	Rebate	Final Rate	Charge
1	20	\$4.44	\$ 88.80	1	12	\$4.44	\$0.16	\$0.20	-\$0.04	\$4.76	\$ 57.12
2	4	\$4.98	19.92	2	12	\$4.98	\$0.09	\$0.20	-\$0.04	\$5.23	62.76
	24		\$ 108.72	Total	24						\$ 119.88
Service Charge			83.76	Service Charge			86.60				
IAC			8.48	IAC			8.48				
Total Bi-Monthly Cost			\$ 200.96	Total Bi-Monthly Cost			\$ 214.96				
				Bi-Monthly Dollar Change			\$ 14.00				
				Percentage Change			6.97%				

Breakdown of Average Bill by Source	Amount	Percent
Service Charge	\$ 2.84	1.4%
Water Authority Pass-through 01/01/2022	4.80	2.4%
Rebate 01/01/2022	(0.96)	-0.5%
VID Rate Increase Needed	7.32	3.6%
	\$ 14.00	

New Rates	
Capital Improvement Reserve 06/30/2021	\$ 20,346,496
Contribution to or (Use of) Reserves through Fiscal Year 2027	(6,803,070)
Projected Capital Improvement Reserve Balance as of 06/30/2027	\$ 13,543,427

Potential Current Tiered Allotment with New Water Rates

- Allow the automatic pass-through of all San Diego County Water Authority fees and charges for wholesale water and water related services.
- Allow an inflationary adjustment to District water rates annually on July 1; forgo the increase on 07/01/22.
- Effective on bills mailed after 03/01/22, increase the Tier 1 water rate to \$4.76; Tier 2 water rate to \$5.44; the Tier 3 water rate to \$5.44.
- Increase Service Charge for inflation.

Service Charges			
Meter Size	Currently Monthly Charge	Proposed Monthly Charge	
5/8	\$ 31.75	\$ 32.82	
3/4 & 3/4 1	41.88	43.30	
1	61.89	63.98	
1.5	112.34	116.14	
2	172.66	178.50	
3	333.57	344.85	
4	514.49	531.89	
6	1,218.45	1,259.65	
8	1,620.90	1,675.71	
10	2,425.46	2,507.47	

Potential Current Tiered Allotment with New Water Rates (continued)

Average 2 month Bill								2 Month Bill				
3/4" METER - CURRENT CHARGE												
Tier	Usage	Rate	Charge	Tier	Usage	Rate	VID Increase	Rate pass-through	Credit	Final Rate	Charge	
1	20	\$4.44	\$ 88.80	1	20	\$4.44	\$0.16	\$0.20	-\$0.04	\$4.76	\$ 95.20	
2	4	\$4.98	19.92	2	4	\$4.98	\$0.30	\$0.20	-\$0.04	\$5.44	21.76	
	24		\$ 108.72	Total	24						\$ 116.96	
Service Charge			83.76	Service Charge							86.60	
IAC			8.48	IAC							8.48	
Total <u>Bi-Monthly Cost</u>			\$ 200.96	Total <u>Bi-Monthly Cost</u>							\$ 212.04	
										<u>Bi-Monthly Dollar Change</u>		\$ 11.08
										<u>Percentage Change</u>		5.51%

Breakdown of Average Bill by Source	Amount	Percent
Service Charge	\$ 2.84	1.4%
Water Authority Pass-through 01/01/2022	4.80	2.4%
Rebate 01/01/2022	(0.96)	-0.5%
VID Rate Increase Needed	4.40	2.2%
	\$ 11.08	

New Rates	
Capital Improvement Reserve 06/30/2021	\$ 20,346,496
Contribution to or (Use of) Reserves through Fiscal Year 2027	(6,800,514)
Projected Capital Improvement Reserve Balance as of 06/30/2027	\$ 13,545,982

Potential Flat Rate

- Allow the automatic pass-through of all San Diego County Water Authority fees and charges for wholesale water and water related services.
- Allow an inflationary adjustment to District water rates annually on July 1; forgo the increase on 07/01/22.
- Effective on bills mailed after 03/01/22, charge all water commodity at \$5.07.
- Increase Service Charge for inflation.

Service Charges		
Meter Size	Currently Monthly Charge	Proposed Monthly Charge
5/8	\$ 31.75	\$ 32.82
3/4 & 3/4 1	41.88	43.30
1	61.89	63.98
1.5	112.34	116.14
2	172.66	178.50
3	333.57	344.85
4	514.49	531.89
6	1,218.45	1,259.65
8	1,620.90	1,675.71
10	2,425.46	2,507.47

Potential Flat Rate (continued)

Average 2 month Bill Example								2 Month Bill				
3/4" METER - CURRENT CHARGE												
Tier	Usage	Rate	Charge	Tier	Usage	Rate	VID Increase	Rate pass-through	Rebate	Final Rate	Charge	
1	20	\$4.44	\$ 88.80	1	24	\$4.44	\$0.47	\$0.20	-\$0.04	\$5.07	\$ 121.68	
2	4	\$4.98	19.92								-	
	24		\$ 108.72	Total	24						\$ 121.68	
Service Charge			83.76	Service Charge			86.60					
IAC			8.48	IAC			8.48					
Total <u>Bi-Monthly Cost</u>			\$ 200.96	Total <u>Bi-Monthly Cost</u>			\$ 216.76					
										<u>Bi-Monthly Dollar Change</u>		\$ 15.80
										<u>Percentage Change</u>		7.86%

Breakdown of Average Bill by Source	Amount	Percent
Service Charge	\$ 2.84	1.4%
Water Authority Pass-through 01/01/2022	4.80	2.4%
Rebate 01/01/2022	(0.96)	-0.5%
VID Rate Increase Needed	9.12	4.5%
	\$ 15.80	

New Rates	
Capital Improvement Reserve 06/30/2021	\$ 20,346,496
Contribution to or (Use of) Reserves through Fiscal Year 2027	(7,283,932)
Projected Capital Improvement Reserve Balance as of 06/30/2027	\$ 13,062,564

Impacts of Potential Rate Alternatives on by Meter Size and Customer Category

Below are estimated billing increases for the three alternatives presented for the District's most common meter size, 3/4", and larger meters.

- Upper box - typical residential customer (as seen in previous slides) and a low water use customer that uses 11 units every two months.
- Lower box - examples for large meter sizes; 3" meter with 572 units consumed, 4" meter with 1,403 units consumed and 6" meter with 1,060 units consumed. These customers are billed monthly.

Bi-Monthly Month Charge	New Tiers, Capital Reserve ENR Annual		Old Tiers, Capital Reserve ENR Annual		Flat Rate, Capital Reserve ENR Annual	
	3/4" meter - Typical Customer	\$ 14.00	6.97%	\$ 11.08	5.51%	\$ 15.80
3/4" meter - Low Water Use	6.36	4.51%	6.36	4.51%	9.77	6.93%

Single Month Charge	New Tiers, Capital Reserve ENR Annual		Old Tiers, Capital Reserve ENR Annual		Flat Rate, Capital Reserve ENR Annual	
	3" meter - Nursery	195.56	6.24%	252.00	8.03%	149.16
4" meter - Government Agency	432.65	5.82%	627.78	8.44%	278.67	3.75%
6" meter - School	435.20	6.85%	458.80	7.22%	406.60	6.40%



STAFF REPORT

Board Meeting Date: November 3, 2021
Prepared By: Don Smith
Approved By: Brett Hodgkiss

SUBJECT: POWER PURCHASE AGREEMENT

RECOMMENDATION: Authorize the General Manager to enter into a multi-year power purchase agreement with a provider for the purchase of electrical power, delivered by San Diego Gas & Electric (SDG&E), on the District’s eligible electrical power meters.

PRIOR BOARD ACTION: The Board authorized a similar power purchase agreement with Strategic Energy, LLC in 2001 and with Direct Energy in 2013 and 2016.

FISCAL IMPACT: The anticipated commodity price for electrical power under the proposed agreement will be fixed during the period of the agreement and is expected to range between \$0.050 per kilowatt-hour (kWh) and \$0.070 per kWh, depending on market forces and the length of the agreement (one to five years). During the last 5-year agreement with Direct Energy, the District paid a fixed commodity price of \$0.04481 per kWh; the average annual payment to Direct Energy was about \$107,640 per year for the last three years.

SUMMARY: Power prices are volatile, and power providers are typically only able to honor quoted rates for long-term power purchase agreements for a 24-hour period. Final pricing for November 3, 2021 will be provided at the Board meeting. The following power contract quotes, valid as of October 26, 2021, are provided for illustrative purposes:

<u>Length of Agreement</u>	<i>Fixed Power Pricing – Cost per kWh</i>	
	<u>Direct Energy</u>	<u>Pilot Power</u>
12-month	\$0.06252	\$0.07410
24-month	\$0.05704	\$0.06619
36-month	\$0.05362	\$0.06105
48-month	\$0.05155	\$0.05798
60-month	\$0.05006	\$0.05558

DETAILED REPORT: Most SDG&E customers are “Bundled Service” customers, meaning that SDG&E provides both the power generation and the delivery of that power to the customer. As a “Direct Access” customer, the District is able to separate its electrical power costs into two components: 1) the cost of scheduling, delivering and metering electrical power, which the District pays to SDG&E; and 2) the cost of producing the electrical power itself, for which the District is able to contract with third party power providers. In addition, the District has entered into a contract to purchase solar power generated at the District headquarters.

The alternatives to executing a long-term power purchase agreement are to purchase power at the market rate from a power provider or return to bundled service with SDG&E. The current unit cost of power for these alternatives are shown below; for comparison purposes, solar currently costs the District \$0.18143 per kWh.

<u>Power Provider</u>	<u>Cost per kWh</u>
Direct Energy (Market Rate)	~\$0.127 (variable)
SDG&E	\$0.07061 to \$0.24192 (depending on rate type/time-of-use)

For the last three fiscal years, actual payments for electrical power are summarized below. For Direct Energy and Solar, these payments are exclusively for power generation. For SDG&E, these payments are chiefly for scheduling, delivering and metering, but also include some power generation for accounts not included in the Direct Energy contract.

Power Provider	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021
Direct Energy	\$170,617	\$ 85,122	\$152,297
SDG&E	\$313,310	\$303,544	\$326,779
Solar	\$ 63,618	\$ 68,232	\$ 63,579

Length of Agreement	<i>Fixed Power Pricing – Cost per kWh</i>			
	Direct Energy		Pilot Power	
<i>Effective Date of Pricing ⇒</i>	<i>10/16/2021</i>	<i>11/3/2021</i>	<i>10/16/2021</i>	<i>11/3/2021</i>
12-month	\$0.06252	\$0.06260	\$0.07410	\$0.07031
24-month	\$0.05704	\$0.05702	\$0.06619	\$0.06391
36-month	\$0.05362	\$0.05365	\$0.06105	\$0.05980
48-month	\$0.05155	\$0.05166	\$0.05798	\$0.05739
60-month	\$0.05006	\$0.05022	\$0.05558	\$0.05547



STAFF REPORT

Board Meeting Date: November 3, 2021
Prepared By: Lisa Soto
Approved By: Brett Hodgkiss

SUBJECT: DESIGNATION OF VOTING PROXY FOR ASSOCIATION OF CALIFORNIA WATER AGENCIES ELECTION

RECOMMENDATION: Designate a voting delegate and alternate for Vista Irrigation District to vote in the election for Association of California Water Agencies President and Vice President.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: None.

SUMMARY: The Association of California Water Agencies (ACWA) has requested that member agencies designate one individual to cast a vote on behalf of the agency in the election for ACWA's President and Vice President for the 2022-23 term. The vote will take place in person and virtually at the General Session Membership Meeting at the ACWA Fall Conference in Pasadena on Wednesday, December 1, 2021.

DETAILED REPORT: The ACWA Nominating Committee has announced a 2022-23 slate that recommends current Vice President Pamela Tobin for ACWA President and current Region 10 Chair Cathy Green for ACWA Vice President. Nominations from the floor will also be accepted prior to the vote.

ACWA will be using a voting system called Live-Tally, which allows voting delegates to cast their vote using a handheld keypad or online keypad. Voting delegates must be present at the membership meeting (in person or virtually) to vote. Each member agency must indicate their voting representative and an alternate on the Voter Designation & Information Forms and indicate if their voting representative/alternate will be attending in person or virtually. The deadline to submit the Voter Designation & Information Form is Wednesday, November 24, 2021.

ATTACHMENTS:

- ACWA Memorandum dated October 4, 2021
- Email from Kathleen Tiegs endorsing Pam Tobin and Cathy Green
- Email from Pam Tobin
- Email from Stacy Lynne Taylor of Mesa Water District in support of Cathy Green



MEMORANDUM

Via U.S. Mail and Electronic Mail

TO: ACWA Member Agency Board Presidents and General Managers
CC: ACWA Board of Director
FROM: Dave Eggerton, ACWA Executive Director
DATE: October 4, 2021
SUBJECT: Notice of General Session Membership Meeting — December 1, 2021

There will be a General Session Membership Meeting on **December 1, 2021, at 12:00 p.m.** The purpose of this meeting is to formally nominate and elect ACWA's President and Vice President for the 2022-2023 term. At its meeting on September 24, 2021, the ACWA Board of Directors approved procedures whereby ACWA members will be able to participate and vote in the upcoming membership meeting and election in person or virtually. These procedures are in accordance with California Corporations Code Sections 20, 21, 5079 and subsections (a) and (f) of Section 7510, as well as Article 9 of ACWA's Bylaws. The in-person meeting will be held in Ballroom D-H of the Pasadena Convention Center. Virtual voting delegates will participate via Zoom. Staff will provide the Zoom access information to the virtual voting delegates upon receipt of the Voter Designation & Information Form and the member agency's Consent to Electronic Transmissions, Meetings & Voting Form. Members who wish to attend the membership meeting virtually as a non-voting participant can obtain the registration link by contacting Clerk of the Board Donna Pangborn at donna@acwa.com or 916-441-4545 to confirm their member agency has submitted the requisite Consent to Electronic Transmissions, Meetings & Voting Form.

Election/Voting Process

The ACWA Nominating Committee has announced a 2022-2023 slate that recommends current **Vice President Pamela Tobin for ACWA President** and current **Region 10 Vice Chair Cathy Green for ACWA Vice President**. The Nominating Committee's 2022-2023 slate will be presented for the members' consideration and vote at the membership meeting on December 1.

As provided by ACWA's Bylaws (Article 9, Section 9) nominations from the floor will be accepted prior to the vote on the Nominating Committee's slate. The Bylaws require that floor nominations and seconds be made by a member of the Association and must be supported by a resolution of the governing body of the member making and seconding such nomination. The member agency on whose board the nominee serves must submit a resolution of support if they are not the agency making the floor nomination or second. The resolutions to facilitate floor nominations must be submitted to the Clerk of the Board Donna Pangborn at donna@acwa.com by **COB Wednesday, November 24, 2021**.

➤ **See attachment for detailed Membership Meeting & Election Procedures.**

ACWA will be using a voting system called Live-Tally, which will allow voters to vote using a handheld keypad OR online keypad (which can be accessed through any modern web browser on a computer, tablet or smart phone). **Voters must be present at the membership meeting, either in person or virtually, to vote.**

Consistent with ACWA's Bylaws, Article 9, Section 5, "each member of the Association shall be entitled to one vote that shall be cast by its authorized representative."

- Member agencies must indicate their voting representative and alternate on the attached Voter Designation & Information Form.
- Member agencies must indicate if their voting representative/alternate is attending in person or virtually as well as provide all of the information identified on the form in order for ACWA to facilitate all aspects of the membership meeting and voting processes.

Members who desire to participate in the membership meeting virtually and vote electronically are required to sign and return the attached Consent to Electronic Transmissions, Meetings & Voting Form by November 24, 2021, consistent with the California Corporations Code.

Deadline & Changes

The deadline for submitting the Voter Designation & Information Form is **Wednesday, November 24, 2021**. While this form identifies both a voting delegate and an alternate voting delegate for the ACWA member agency, if for any reason the member agency desires for the alternate voting delegate to vote at the election in place of its designated voting delegate, the member agency must notify ACWA in advance of its exchange of voting delegates by contacting the Clerk of the Board Donna Pangborn at donnap@acwa.com or 916-441-4545 **no later than Monday, November 29, 2021**. Staff will then provide the member agency's alternate voter with the Zoom and Live-Tally access/participant information if the voter is participating virtually.

ACWA General Session Desk

ACWA staff will be available at the **ACWA General Session Desk**, located in the Ballroom Lobby of the Pasadena Convention Center, on **Wednesday, December 1**, between **9:00 a.m. and 11:45 a.m.** to answer questions about the membership meeting and election process.

In-person voters need to check in at the ACWA General Session Desk on Wednesday, December 1, between 10:30 and 11:45 a.m. to pick up handheld keypads.

If you have any questions regarding this process, please contact Clerk of the Board Donna Pangborn at 916-441-4545 or donnap@acwa.com.

dgp

Attachments:

1. Membership Meeting & Election Procedures
2. Voter Designation & Information Form
3. Consent to Electronic Transmission, Meetings & Voting Form

The following information is provided to inform the ACWA member agency voting delegates of the meeting and election procedures to be used in the upcoming General Session Membership Meeting scheduled for December 1, 2021 at 12:00 p.m. The purpose of the meeting is to formally nominate and elect ACWA's President and Vice President for the 2022-2023 term. The in-person meeting will be held in Ballroom D-H of the Pasadena Convention Center. Virtual voting delegates will participate via Zoom. Staff will provide the Zoom access information to the virtual voting delegates upon receipt of the Voter Designation & Information Form and the member agency's Consent to Electronic Transmissions, Meetings & Voting Form. Members who wish to attend the membership meeting virtually as a non-voting participant can obtain the registration link by contacting Clerk of the Board Donna Pangborn at donnap@acwa.com or 916-441-4545 to confirm their member agency has submitted the requisite Consent to Electronic Transmissions, Meetings & Voting Form.

ELECTION / VOTING PROCESS

ACWA will be using a voting system called Live-Tally, which will allow voters to vote either in person using a handheld keypad OR virtually through an online keypad (which uses any modern web browser on a computer, tablet or smart phone). **Voters must be present at the membership meeting, either in person or virtually, to vote.**

Consistent with ACWA's Bylaws, Article 9, Section 5, "each member of the Association shall be entitled to one vote that shall be cast by its authorized representative."

- Member agencies must indicate their voting representative and alternate on the Voter Designation & Information Form.
- Member agencies must indicate if their voting representative/alternate is attending in person or virtually as well as provide all of the information identified on the form in order for ACWA to facilitate all aspects of the membership meeting and voting processes.

Members who desire to participate in the membership meeting virtually and vote electronically are required to sign and return the Consent to Electronic Transmissions, Meetings & Voting Form by November 24, 2021, consistent with the California Corporations Code.

VIRTUAL ATTENDEES

Virtual attendees need to take the following steps after the member agency has completed and returned the Voter Designation & Information Form and requisite Consent to Electronic Transmissions, Meetings & Voting Form.

1. Voting delegates need to **save the Zoom access/login information** ACWA staff will provide to you. Save the information for the day of the meeting. **Use that information to login to the virtual meeting**, which is how ACWA will identify you as a participant.
2. Voting delegates need to **save the Live-Tally Participant ID information** ACWA staff will provide to you, which is how Live-Tally will identify you as the member agency voter.

IN-PERSON ATTENDEES

In-person attendees need to take the following steps after completing and returning the Voter Designation & Information Form:

1. Check in at the ACWA General Session Desk, located in the Ballroom Lobby of the Pasadena Convention Center, on **Wednesday, December 1**, between **10:30 and 11:45 a.m.** to pick up handheld keypads.
2. Voting delegates **must be present to vote** and **MUST** have the handheld keypad prior to the start of the membership meeting.

DEADLINE & CHANGES

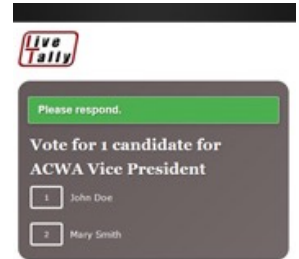
The deadline for submitting the **Voter Designation & Information Form** is Wednesday, **November 24, 2021**. If there is any change of your agency's voting delegate with its designated alternate, you must contact ACWA's Clerk of the Board Donna Pangborn at donnap@acwa.com or 916-441-4545 no later than Monday, November 29, 2021. Staff will provide the alternate voter with the Zoom and Live-Tally access/participant information if the voter is participating virtually.

1. The General Session Membership Meeting will be called to order at 12:00 p.m. and a quorum will be determined. The presence of 50 authorized voting representatives is required to establish a quorum for transacting business.
2. An overview of the Zoom platform will be provided, including demonstration of how the virtual meeting participants can interact throughout the meeting.
3. An overview of the Live-Tally voting system will be provided and a test vote will be conducted.
4. Legal Affairs Committee Chair Jennifer Buckman will provide an overview of the agenda and election procedures.
5. Nominating Committee Chair Brent Hasteley will present the Committee's report and announce the candidate for ACWA President.
6. President Steven LaMar will call for floor nominations for ACWA President.
7. If there are no floor nominations for ACWA President, the election will proceed. President LaMar will close the nominations and delegates will vote following motion/second to elect the Nominating Committee's recommendation using Live-Tally.
8. If there are floor nominations for President, the nomination will follow the procedures established by Article 9 of ACWA's Bylaws, stating that floor nominations and seconds shall be made by a member of the Association and must be supported by a resolution of the governing body of the member making and seconding such nomination. The member agency on whose board the nominee serves shall submit a resolution of support if they are not the agency making the floor nomination or second.
 - a. **Resolutions to facilitate floor nominations must be submitted to the Clerk of the Board Donna Pangborn at donna@acwa.com by COB Wednesday, November 24, 2021.**
 - b. Candidates will be given three minutes to address the membership.
 - c. Staff will create a ballot in the Live-Tally system and then display for the voters' action.
 - d. Voting delegates will vote on one (1) candidate of the candidate options displayed on the screen using the handheld OR online keypad in the Live-Tally voting system. Results will be displayed in real time.
 - e. President LaMar will announce the results of the vote.
9. Nominating Committee Chair Brent Hasteley will announce the candidate for ACWA Vice President.
10. President Steven LaMar will call for floor nominations for ACWA Vice President.
11. If there are no floor nominations for ACWA Vice President, the election will proceed. President LaMar will close the nominations and delegates will vote following motion/second to elect the Nominating Committee's recommendation using Live-Tally.
12. If there are floor nominations for ACWA Vice President, the nominations will follow the procedures described in item 6 above, and the election will proceed according to the steps outlined in 6.a. through 6.e.
13. The ACWA Board of Directors appointed LAC Chair Jennifer Buckman to serve as an election inspector to resolve any challenges or questions in connection with the election consistent with California Corporations Code 7614.

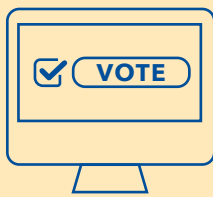
California Corporations Code requires ACWA to maintain a voting record of its membership meetings.

When the members are ready to vote, the President will announce that it is time to vote (instructions will appear on the projection screen).

- **How do I submit my vote?** Press 1, 2, or 3 to cast your vote; then press SEND.
- **What happens if I make a mistake?** Re-submit your vote by pressing 1, 2, or 3 and send before the voting window ends.
- **What if I arrive late?** Your vote will be cast from the time you arrive at the meeting; prior to that your vote will register as "absent."
- **What happens if I am out of the room or have to leave early?** Your vote will be recorded as "absent" for that vote.



Test voting will be conducted at the beginning of the Membership Meeting.



VIRTUAL VOTING

Each voting delegate will be provided access to voting through Live-Tally's voting system. If you are attending the meeting virtually, follow the instructions listed below.

1. Use any modern web browser on a computer, tablet or smart phone to navigate to <https://MyBallot.app>
2. Enter the meeting ID "ACWA" and click the "Connect" button.
3. When prompted, enter the specific voting participant ID that was provided to you.
4. Voting questions will appear on this "virtual keypad" as they are presented.
 - Simply click the numbered button that corresponds to your choice.
 - **To change your vote**, make a different selection before the voting window ends.
5. Hit refresh if your browser or virtual keypad goes to "sleep."



IN-PERSON VOTING

If you are attending the meeting in person, you will be given a handheld keypad. Each handheld keypad is numbered on the back, and that number will be assigned to you as you check in at the ACWA General Session Desk on **Wednesday, December 1 between 10:30 and 11:45 a.m.**

- **Check your device to make sure that it is working properly.** Press any button and it will light up. All devices were tested prior to the meeting.
- **If it does not light up.** Take it back to the ACWA General Session Desk and ask for another keypad and make sure that they make a note of the numeric change.



Return your keypad to the ACWA General Session Desk.

To: Donna Pangborn, Clerk of the Board

Email: donnap@acwa.com

Fax: 916-669-2425

The person designated below will be attending the ACWA General Session Membership Meeting(s) on Wednesday, December 1, 2021 (and December 2, 2021 if necessary) as our voting delegate. Please designate an alternate voting delegate to facilitate any change to your voting representation at the meeting. To change your alternate, however, you must notify Donna Pangborn of the change no later than COB Monday, November 29, 2021.

Member Agency's Name

Agency's Phone No.

Print Member Agency's Authorized Signatory Name

Authorized Signatory Signature

I have signed and returned the Consent to Electronic Transmission, Meetings & Voting Form.

Voting Delegate's Name	How Will Delegate Attend? Will attend the meeting in person in Pasadena. Will attend the meeting virtually.
Voting Delegate's Email	Voting Delegates' Phone No.
Alternate Voting Delegate's Name	How Will Alternate Delegate Attend? Will attend the meeting in person in Pasadena. Will attend the meeting virtually.
Alternate Voting Delegate's Email	Alternate Voting Delegates' Phone No.
Voting Delegate's Affiliation (if different from assigning agency)*	Date

*If your agency designates a delegate from another entity to serve as its authorized voting representative, please indicate the delegate's entity in the appropriate space above.

In accordance with California Corporations Code Sections 20, 21, 5079 and subsections (a) and (f) of Section 7510, and Article 9 of the Bylaws of the Association of California Water Agencies, a California nonprofit mutual benefit corporation ("ACWA"), the undersigned member of ACWA (the "Member") hereby consents and agrees as follows:

1. ACWA may send meeting notices, annual reports, and all other materials to the Member by (a) electronic transmission to the Member's facsimile number or email address; (b) posting on an electronic message board or network which ACWA has designated for those communications, together with separate notice to the Member of the posting; or (c) other means of electronic communication. The Member's initial facsimile number and email address for receiving such notices, annual reports and other materials are listed below.
2. ACWA may conduct meetings of the members by electronic transmission or electronic video screen communication; provided, however, that if fewer than all members of ACWA consent to conduct such meetings by electronic transmission or electronic video screen communication, then such meetings shall be held at a physical location, and the authorized representative(s) of any member that has so consented (and not withdrawn its consent) may participate in such meetings by electronic transmission or electronic video screen communication, be deemed present in person and vote at such meetings.
3. ACWA may rely on communications sent by the Member to ACWA by (a) electronic transmission from the Member's facsimile number or email address; (b) posting on an electronic message board or network which ACWA has designated for those communications; or (c) other means of electronic communication. ACWA may reasonably conclude that the Member is the sender of any electronic transmission that (i) is received from such facsimile number or email address or (ii) is submitted by an authorized representative of the Member with valid registration/login credentials.
4. ACWA may rely on electronic votes (including votes to approve or reject actions) submitted by an authorized representative of the Member to ACWA during meetings conducted in whole or in part by electronic transmission or electronic video screen communication. ACWA may reasonably conclude that the authorized representative of the Member is the sender of any electronic votes submitted pursuant to such authorized representative's meeting participant ID. The Member's initial authorized representative(s) is listed below.

ACWA shall maintain paper records of all communications sent by ACWA to the members and all votes or actions taken at any member meeting. The Member may (i) access such records at ACWA's headquarters during normal business hours or (ii) request in writing for ACWA to send copies of such records to the Member via U.S. Mail or email.

This consent shall remain in full force and effect until the Member revokes it in writing and so notifies ACWA.

Print Member Name

Print Representative Name

Representative Title

Representative Signature

Date

Please provide the facsimile number and email address to which the Member authorizes ACWA to send the electronic communications described above. The Member may change its designated facsimile number and email address at any time by written notice to ACWA.

Please provide the name of the Member's initial authorized representative(s) who will participate in and vote in connection with member meetings. The Member may change its authorized representative(s) at any time by written notice to ACWA.

Facsimile Number

Authorized Representative No. 1

Email

Authorized Representative No. 2



Dear ACWA Colleague,

I hope this email finds you well. As you may be aware, the Association of California Water Agencies (ACWA) 2022-2023 elections for President and Vice President are soon taking place. As an ACWA Past President, I am writing to emphasize the importance of ACWA's upcoming elections which involve a very different voting process this year. If you are selected as your agency's voting representative, you will have the opportunity to vote either in-person or digitally.

Furthermore, I wish to commend ACWA's Nominating Committee for its historic and unanimous selection of [Pam Tobin](#) and [Cathy Green](#) for its recommended slate for the office of ACWA President and Vice President respectively. I am confident Pam and Cathy will be excellent leaders for ACWA at this critical time—I know they will work collaboratively to prioritize the Association's core purpose of serving all members. Additionally, in the interest of equity, integrity and transparency, I am sharing below the email I sent to ACWA's Nominating Committee.

In closing, I look forward to seeing you at ACWA's Fall Conference whether you choose to attend in person or online; and, as always, I welcome you to contact me any time via email (KJTiegs@aol.com) or my cell (909.635.4177).

Best Regards,

A handwritten signature in black ink that reads "Kathleen J. Rego". The signature is written in a cursive, flowing style.

Thu 9/16/2021 8:01 PM

Nominations for ACWA President/Vice-President for the 2022-2023 Term

To: jburke@srcity.org; dcehrs@verizon.net; Clary@irwd.com; bhastey@gmail.com;
jmendes@tlbwsd.com; dpedersen@lvmwd.com; bpoulsen@eid.org; hryan@evmwd.net;
jvarela@valleywater.org; jwoodling@geiconsultants.com
Cc: bboatmun@yahoo.com; coleman@ebmud.com; EJGlad@aol.com;
dirrecord@gmail.com; paul@paulkelley.org; lamar@legisight.com

Dear Nominating Committee Members,

Thank you for serving on the ACWA Nominating Committee to determine the slate of candidates for the ACWA President/Vice-President for the 2022-2023 year. I know that you will take this opportunity seriously, serve with integrity, and make your selection in the best interest of the entire ACWA membership.

In light of the many concerns that have recently come to my attention regarding Director O'Dowd's candidacy for ACWA Vice-President for the 2022-2023 term, I am writing to daylight the two that are first and foremost.

First. In November 2020, Mr. O'Dowd took the helm, and currently serves as Executive Director/General Manager of the Salton Sea Authority (JPA) located in Indio (ACWA Region 9). He serves on the ACWA Region 9 Board, and is on the current ACWA Region 9 nominated slate for Vice-Chair. In late August 2021, Mr. O'Dowd was appointed to serve as a Director on the Dudley Ridge Water District located in southern Kings County (ACWA Region 6). According to the Dudley Ridge Water District website, Director O'Dowd was appointed to represent landowner Irvine Ranch Water District (ACWA Region 10).

Second. The campaign webpage for Director O'Dowd's ACWA VP Candidacy shows an endorsement by Brent Hastey, ACWA Immediate Past President, and Chair of your Nominating Committee. It is my understanding that Brent was unaware that his name was shown as an endorsement on Director O'Dowd's campaign webpage, nor did he authorize his name to be listed as an endorsement. It is also my understanding that Brent was going to ask that his name be removed from Director O'Dowd's webpage as an endorsement.

Integrity is a personal quality of fairness. How can Mr. O'Dowd fairly represent Irvine Ranch Water District (ACWA Region 10) as a Director at Dudley Ridge Water District, and then fairly represent his ACWA Region 9 member agencies on the ACWA Region 9 Board? Isn't showing the Chair of the ACWA Nominating Committee as an endorsement on Mr. O'Dowd's campaign webpage a direct conflict of interest?

Considering my concerns that are first and foremost, it is appropriate for Director O'Dowd to withdraw his ACWA Vice-President candidacy for the 2022-2023 term.

Thank you for your time and attention to this important matter.

Regards

Kathleen Tiegs, ACWA Past President

Pam Tobin

Dear ACWA Member Board Presidents and General Managers:



In case you have not heard, I am seeking the office of President of the Association of California Water Agencies (ACWA) for the 2022-2023 term. Members around the state are passing resolutions in support of my candidacy and I hope I can also count on your support.

I have been honored to serve as ACWA Vice President over the past two years. Additionally, I bring more than 17 years of experience in California water at the local, regional, and statewide levels. I believe I am uniquely qualified to serve as ACWA President. For more information about my qualifications, please visit SJWD.org/Pam-Tobin-for-ACWA-President.

I am proud of my accomplishments as ACWA Vice President during extremely challenging times. Highlights include, creating the highly successful “Leadership to Leadership” virtual town hall-meetings throughout ACWA’s regions; supporting ACWA members and staff during the COVID-19 Pandemic; actively engaging in ACWA’s efforts to shape California’s 2020 Water Resilience Portfolio; and working with the Board to develop a five-year Strategic Plan to guide the association’s future.

I have the support for my candidacy from my home district, the San Juan Water District in Northern California, where I currently serve as President and have been on the Board of Directors since 2004. I also have served in leadership and on the board of the Regional Water Authority / Sacramento Groundwater Authority for 16 years. I have been active in ACWA -- as a Board member, as Chair of ACWA Region 4, and as a member of ACWA’s Federal Affairs and Local Government Committees. I also serve on the ACWA-Joint Powers Authority Board, and its Executive and Liability Committees.

Throughout my various leadership roles, I have prioritized connecting, listening, learning, and collaborating to solve critical issues. I strive for cooperation and transparent, open communication. Beyond the water policy arena, I bring strong skills in the areas of strategic planning, finance, leadership, consensus- and coalition-building, and in forging strong partnerships between the community and the organizations I serve. I strongly believe in advancing inclusion and diversity, including differing viewpoints. As President, I will devote my expertise in water and other professional and personal strengths to advance ACWA's mission and priorities.

I have always believed that ACWA's strength is derived from its members, who serve the public. I know through the collective expertise and experience of ACWA's members we can tackle any problem. When ACWA members speak with one voice, we maximize our effectiveness.

As Vice President, I have learned so much about the members, and pledge to bring my passion, experience, integrity, and skills to the role of ACWA President. Simply put, I know the issues, the people and see the opportunities to move ACWA forward.

I hope I can count on your support. If you have any questions or thoughts, feel free to call my cell at (916) 275-0875 or email me at petpyrs@surewest.net.

Sincerely,

A handwritten signature in black ink, appearing to read 'Pam', with a large, sweeping flourish above the name.

Pamela Tobin

ACWA Vice President

ACWA-JPIA Board of Directors: Executive and Liability Committees

San Juan Water District Board President

RWA Board of Directors/Executive Committee

SGA Board of Directors

From: Stacy Lynne Taylor <stacyt@mesawater.org>
Sent: Wednesday, August 18, 2021 10:33 AM
To: Stacy Lynne Taylor <stacyt@mesawater.org>
Cc: cgreen@ocwd.com; Paul E. Shoenberger, PE <pauls@mesawater.org>; mmarkus@ocwd.com
Subject: ACWA Region 10 - Can I count on your support for ACWA Vice President?

Greetings,

I'm contacting you to encourage support for our fellow Region 10 colleague -- Orange County Water District (OCWD) Director **Cathy Green** -- as a candidate for **ACWA Vice President**. She has already garnered support from several Region 10 agencies, as well as from water districts statewide.

To learn more about Cathy's background and experience that uniquely qualifies her, go to www.OCWD.com/news-events/events/Cathy-Green-for-ACWA-Vice-President/ where you can more info along with a **template support resolution** for your Board's consideration.

Please feel free to contact me any time, or you can call Director Green at **714.321.0522** or email her at [**CGreen@OCWD.com**](mailto:CGreen@OCWD.com).

Stacy Lynne Taylor
Water Policy Manager



1965 Placentia Ave • Costa Mesa, CA 92627
tel 714.791.0848 • dept 949.631.1201
StacyT@MesaWater.org • **MesaWater.org**



BIOGRAPHY

Cathy Green, 1st Vice President | Division 6

Orange County Water District

Service Area: Parts of: Fountain Valley and Huntington Beach

Cathy Green was elected to the Orange County Water District (OCWD) Board of Directors in November 2010 and was re-elected in 2012, 2016 and 2020. She was selected by the board to serve as its 2015 and 2016 president. She currently serves as 1st vice president, a position she previously held in 2013, 2014 and 2020.



Prior to Director Green's service on OCWD's board, she was elected to two consecutive terms on the Huntington Beach City Council where she served two terms as mayor. Director Green has been involved as a council liaison and committee member on many city boards, commissions and committees. She served on the Orange County Transportation Authority Board and was a director of OC Clean Tech.

Director Green's leadership in the water industry includes serving as an active member of the Association of California Water Agencies (ACWA) since 2012, including serving on ACWA's Executive Committee since 2020, the ACWA Board since 2016, and the Region 10 Board since 2012. She held the position of ACWA Region 10 Chair from 2018-2019 and served as Vice Chair since 2020, and previously from 2016-2017. Director Green has also served on several ACWA Committees including the Water Quality Committee since 2012, the Energy Committee since 2019, and the State Legislative Committee from 2012-2015.

Director Green serves on the boards of the Huntington Valley Boys and Girls Club and the Orange County Explorer Program; serves on the Huntington Beach City School District Medi-Cal Collaborative; is a director of the Prime Health Foundation and the Huntington Beach Hospital; is a member of the American Legion Unit 133 Auxiliary, Huntington Beach Community Emergency Response Team (CERT) and the Elks Lodge 1959; and is on the Advisory Board of the Bolsa Chica Conservancy. She is a founding member of Amigos de Bolsa Chica.

In addition, her community involvement has included serving as president of the Therapeutic Riding Center and the Huntington Beach Community Clinic, chair of the Orange County Emergency Medical Care Committee and of Explorer's/Learning for Life, first aid chair of Huntington Beach CERT, and board member of the OC Boy Scouts of America Council and American Family Housing.

Director Green is the recipient of many awards. Her most recent is a 2020 Boys and Girls Clubs of America National Service to Youth Award. In 2010, she was the recipient of the Spurgeon Award, and, in 2005, she was named Woman of the Year by then State Senator John Campbell. Other awards include the 2006 United Way Excellence in Child Care Planning, the 2007 Peace Maker Award from the Greater Huntington Beach Interfaith Council and the Golden West College Pillar of Achievement Award. She has also been recognized as Huntington Beach's Citizen of the Year by the Huntington Beach Chamber of Commerce, a Huntington Beach Soroptimist's Woman of Distinction and a Bolsa Chica Conservancy Conservator of the Year.

Director Green is a registered nurse and holds a degree in law. As a nurse, Director Green worked in the health care areas of intensive care, student health, community health, and patient advocacy. In addition to nursing, she gained experience with a variety of environmental projects while associated with Lockhart and Associates.

Director Green and her husband Peter have been residents of Huntington Beach since 1970 where they raised their two children Teresa and Tom.

ELECT CATHY GREEN AS ACWA VICE PRESIDENT

COMMITMENT · EXPERIENCE · LEADERSHIP

Unanimously Chosen By ACWA's Nominating Committee For Its Slate



ACWA BOARD MEMBER

- Executive Committee (2020-current)
- Region 10 Chair (2018-19)
- Region 10 Vice Chair (2016-17, 2020-current)
- Region 10 Board Member (2012-current)

ACWA COMMITTEES

- Water Quality Committee (2012-current)
- Energy Committee (2019-current)
- State Legislative Committee (2012-2015)

ORANGE COUNTY WATER DISTRICT, Director (2010-current)

- President 2015-16
- 1st Vice President (2013, 2014, 2019-current)
- Water Advisory Committee of Orange County (WACO): Chair
- Water Issues Committee: Chair
- Communications/Legislative Liaison Committee: Vice Chair

CIVIC LEADERSHIP

- City of Huntington Beach Mayor (2003, 2009)
- Councilwoman (2002-2010)

PROFESSIONAL EXPERIENCE

- Registered Nurse
- Law degree

My vision for ACWA is to embrace its motto -- Bringing Water Together -- which, for me, is about unifying ACWA members and working collaboratively with diverse stakeholders to find smart solutions to the challenges we are now facing.



Agenda Item: 12

STAFF REPORT

Board Meeting Date: November 3, 2021
Prepared By: Brett Hodgkiss

SUBJECT: MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

SUMMARY: Informational report by staff and directors concerning the San Diego County Water Authority. No action will be required.



**SUMMARY OF FORMAL BOARD OF DIRECTORS' MEETING
OCTOBER 28, 2021**

1. Adopt Resolution No. 2021-24 to Activate Level 1 of the San Diego County Water Authority's Water Shortage Contingency Plan.

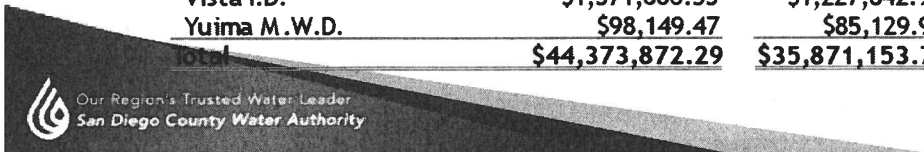
The Board adopted Resolution No. 2021-24 to activate Level 1 of the Water Authority's Water Shortage Contingency Plan.

2. Closed Session:

The Board approved that the \$35,871,153.70 paid by the Metropolitan Water District of Southern California as damages and interest for its breach of the parties' Exchange Agreement for years 2015-2017 by charging a Water Stewardship Rate should be disbursed to Water Authority member agencies as shown on the following table as Distribution #2:

\$80.24M+ Combined Disbursement

<u>Member Agency</u>	<u>Distribution #1</u>	<u>Distribution #2</u>	<u>Total Distribution</u>
Carlsbad M.W.D.	\$1,692,236.88	\$1,362,940.86	\$3,055,177.74
Del Mar, City of	\$108,025.65	\$88,358.85	\$196,384.50
Escondido, City of	\$1,754,022.94	\$1,291,896.32	\$3,045,919.26
Fallbrook P.U.D.	\$909,412.67	\$625,250.63	\$1,534,663.30
Helix W.D.	\$2,847,389.34	\$2,425,228.87	\$5,272,618.21
Lakeside W.D.	\$348,005.17	\$237,868.80	\$585,873.97
Oceanside, City of	\$2,351,413.99	\$1,938,202.55	\$4,289,616.54
Olivenhain M.W.D.	\$2,039,332.40	\$1,622,584.51	\$3,661,916.91
Otay W.D.	\$3,162,939.58	\$2,525,944.50	\$5,688,884.08
Padre Dam M.W.D.	\$1,157,551.53	\$846,518.19	\$2,004,069.72
Pendleton Military Reserve	\$4,958.08	\$5,701.47	\$10,659.55
Poway, City of	\$1,167,915.01	\$837,149.50	\$2,005,064.51
Rainbow M.W.D.	\$1,343,382.03	\$908,190.96	\$2,251,572.99
Ramona M.W.D.	\$596,663.83	\$369,181.59	\$965,845.42
Rincon Del Diablo M.W.D.	\$630,780.62	\$468,066.70	\$1,098,847.32
San Diego, City of	\$17,676,521.64	\$14,990,247.29	\$32,666,768.93
San Dieguito W.D.	\$368,002.42	\$366,659.60	\$734,662.02
Santa Fe I.D.	\$748,699.93	\$646,414.28	\$1,395,114.21
Sweetwater Authority	\$874,367.74	\$1,070,931.27	\$1,945,299.01
Vallecitos W.D.	\$1,590,623.74	\$1,248,828.17	\$2,839,451.91
Valley Center M.W.D.	\$1,332,471.26	\$682,215.91	\$2,014,687.17
Vista I.D.	\$1,571,006.35	\$1,227,642.91	\$2,798,649.26
Yuima M.W.D.	\$98,149.47	\$85,129.98	\$183,279.45
Total	\$44,373,872.29	\$35,871,153.70	\$80,245,025.99



3. Monthly Treasurer's Report on Investments and Cash Flow.

The Board noted and filed the Treasurer's report.



4. Establish 2022 Board Meeting dates.
The Board approved combining the November and December Board meeting dates to November 17, 2022 and approved the 2022 Board meeting dates calendar.
5. Execute a reimbursement resolution for the Capital Improvement Program.
The Board adopted Resolution 2021-25 making a declaration of official intent to reimburse certain capital project expenditures from proceeds of future debt obligations.
6. Implementation of Financial Third-Party Reviews and Financial Reporting.
The Board authorized the General Manager to approve as-needed services contracts for third-party reviews of the Water Authority's cost-of-service study, rate design, five-year financial forecast, and the Capital Improvement Program planning and prioritization; authorized the reinstatement of one full-time equivalent and the addition of two full-time equivalent employees to the Water Authority's budget for the implementation and ongoing maintenance of financial third-party reviews and financial reporting; authorized Staff to work with its Cost-of-Service consultant to update the Long-Range Financial Plan (LRFP) model to include projected impact to each rate category; and authorized the General Manager to approve a professional services contract(s) for a third-party analysis of potential water transfer opportunities for the Water Authority's contracted water supplies, based on various demand climate scenarios and rate impacts including affordability.
7. Adopt positions on various bills.
The Board adopted a position of Support on H.R. 3293 (Blunt Rochester), relating to the Low-Income Water Customer Assistance Programs Act of 2021.
8. Consideration to Approve Sacramento Advocacy Contracts.
The Board authorized the General Manager to execute two 36-month contracts (from November 1, 2021 through October 31, 2024) for Sacramento advocacy services with California Strategies for a total compensable contract amount of \$742,500 (inclusive of reimbursable expense allowance) over the contract term, and with Lang, Hansen, Giroux & Kidane for a total compensable contract amount of \$742,500 (inclusive of reimbursable expense allowance) over the contract term.
9. Services contract with Global Power Group, Inc., for generator preventative maintenance, inspection, testing and on-call repair services.
The Board authorized the General Manager to execute the services contract with Global Power, Inc., for generator preventative maintenance, inspection, testing and on-call repair services for two years, with an option to extend the contract for an additional three years, for a total not-to-exceed amount of \$180,000.
10. 2021 Energy Management Policy.
The Board adopted the 2021 Energy Management Policy.



11. Professional services contract with Exponential Engineering Company to perform a feasibility analysis of interconnecting the Claude "Bud" Lewis Desalination Plant to the San Diego Gas & Electric transmission system.

The Board authorized the General Manager, or designee, to award a professional services contract to Exponential Engineering Company for a not-to exceed amount of \$361,546 to perform a feasibility analysis of interconnecting the Claude "Bud" Lewis Desalination Plant to the San Diego Gas & Electric transmission system.

12. Approval of Minutes.

The Board approved the minutes of the Special Administrative and Finance Committee meeting of September 23, 2021 and the Formal Board of Directors' meeting of August 26, 2021.

13. Appointment and Confirmation of Director to the Metropolitan Water District of Southern California Board of Directors.

The Board approved the appointment of Marty Miller, replacing Mike Hogan, as a Director to the Metropolitan Water District of Southern California Board of Directors.



STAFF REPORT

Agenda Item: 13.A

Board Meeting Date:	November 3, 2021
Prepared By:	Lisa Soto
Approved By:	Brett Hodgkiss

SUBJECT: REPORTS ON MEETINGS AND EVENTS ATTENDED BY DIRECTORS

SUMMARY: Directors will present brief reports on meetings and events attended since the last Board meeting.



STAFF REPORT

Agenda Item: 13.B

Board Meeting Date: November 3, 2021
Prepared By: Lisa Soto
Approved By: Brett Hodgkiss

SUBJECT: SCHEDULE OF UPCOMING MEETINGS AND EVENTS

SUMMARY: The following is a listing of upcoming meetings and events. Requests to attend any of the following events should be made during this agenda item.

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
1 *	CSDA Quarterly Meeting <i>Nov. 18, 2021, 6:00 p.m.; 94th Aero Squadron, San Diego</i> <i>Registration deadline: TBD</i>	Vásquez (R)
2	ACWA Fall Conference <i>Nov. 30-Dec. 3, 2021–Pasadena</i> <i>Registration deadline: 11/19/21</i>	Vásquez (H, R) Dorey (H, R) Sanchez (H, R) MacKenzie (H, R) Miller (H, R)
3 *	Vista Chamber of Commerce Business Mixer <i>Dec. 8, 2021; 5:00 p.m.–6:00 p.m.; Location TBD</i> <i>Registration deadline: None</i>	
4	Colorado River Water Users Association Conference (CRWUA) <i>Dec. 14-16, 2021; Caesar’s Palace Las Vegas</i> <i>Registration deadline: 11/30/21</i>	Sanchez MacKenzie Miller (T) Vásquez (T)
5	Council of Water Utilities Meeting <i>Jan. 18, 2022, 8:00 a.m.–9:30 a.m.</i> <i>Registration deadline: TBD</i>	
6	Urban Water Spring Conference <i>Feb. 16-18, 2022; Palm Springs</i> <i>Registration deadline: 1/15/22</i>	
7	Council of Water Utilities Meeting <i>Mar. 15, 2022, 8:00 a.m.–9:30 a.m.</i> <i>Registration deadline: TBD</i>	
8	ACWA Spring Conference <i>May 3-6, 2022; Sacramento</i> <i>Registration deadline: TBD</i>	
9	Council of Water Utilities Meeting <i>May 17, 2022, 8:00 a.m.–9:30 a.m.</i> <i>Registration deadline: TBD</i>	
10	Special Districts Legislative Days <i>May 17-18, 2022; Sacramento</i> <i>Registration deadline: TBD</i>	
11	Council of Water Utilities Meeting <i>Jul. 19, 2022, 8:00 a.m.–9:30 a.m.</i> <i>Registration deadline: TBD</i>	
12	CSDA Annual Conference <i>Aug. 22-25, 2022; Palm Springs</i> <i>Registration deadline: TBD</i>	
13	Council of Water Utilities Meeting <i>Sep. 20, 2022, 8:00 a.m.–9:30 a.m.</i> <i>Registration deadline: TBD</i>	

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
14	CALAFCO Annual Conference <i>Oct. 19-21, 2022; Newport Beach</i> <i>Registration deadline: TBD</i>	
15	Council of Water Utilities Meeting <i>Nov. 15, 2022, 8:00 a.m.–9:30 a.m.</i> <i>Registration deadline: TBD</i>	
16	ACWA Fall Conference <i>Nov. 29-Dec. 2, 2022; Indian Wells</i> <i>Registration deadline: TBD</i>	
17	Colorado River Water Users Association Conference (CRWUA) <i>Dec. 14-16, 2022; Las Vegas</i> <i>Registration deadline: TBD</i>	

* Non-per diem meeting except when serving as an officer of the organization

The following abbreviations indicate arrangements that have been made by staff:

R=Registration; **H**=Hotel; **A**=Airline; **S**=Shuttle; **C**=Car; **T**=Tentative

◇=Attendee to self-register for virtual meeting.



STAFF REPORT

Board Meeting Date: November 3, 2021
Prepared By: Lisa Soto

SUBJECT: ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

SUMMARY: This item is placed on the agenda to enable the Board to identify and schedule future items for discussion at upcoming Board meetings and/or identify press release opportunities.

Staff-generated list of tentative items for future agendas:

- General Counsel interviews and selection (November/December)
- Annual Organizational Meeting (December)
- Edgehill Reservoir Replacement and Pump Station construction bids (December)
- Redistricting District boundaries – appointment of ad hoc committee (December)



STAFF REPORT

Agenda Item: 15

Board Meeting Date: November 3, 2021
Prepared By: Lisa Soto

SUBJECT: COMMENTS BY DIRECTORS

SUMMARY: This item is placed on the agenda to enable individual Board members to convey information to the Board and the public not requiring discussion or action.



Agenda Item: 16

STAFF REPORT

Board Meeting Date:

November 3, 2021

Prepared By:

Brett Hodgkiss

SUBJECT: COMMENTS BY GENERAL COUNSEL

SUMMARY: Informational report by the General Counsel on items not requiring discussion or action.



STAFF REPORT

Agenda Item: 17

Board Meeting Date:

November 3, 2021

Prepared By:

Brett Hodgkiss

SUBJECT: COMMENTS BY GENERAL MANAGER

SUMMARY: Informational report by the General Manager on items not requiring discussion or action.



Agenda Item: 18

STAFF REPORT

Board Meeting Date: November 3, 2021
Prepared By: Brett Hodgkiss

SUBJECT: CLOSED SESSION: LABOR NEGOTIATIONS

SUMMARY: Conference with labor negotiators pursuant to Government Code section 54957.6(a). Agency negotiators: Phil Zamora, Frank Wolinski, and Marlene Kelleher.

NOTICE OF ADJOURNED MEETING
OF THE BOARD OF DIRECTORS OF THE
VISTA IRRIGATION DISTRICT

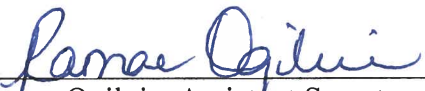
A REGULAR MEETING OF THE BOARD OF DIRECTORS OF VISTA IRRIGATION DISTRICT, HELD ON NOVEMBER 3, 2021 WAS ADJOURNED UNTIL 9:00 AM, WEDNESDAY, NOVEMBER 17, 2021 AT THE OFFICE OF THE VISTA IRRIGATION DISTRICT, 1391 ENGINEER STREET, VISTA, CALIFORNIA.

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AFFIDAVIT OF POSTING ORDER OF ADJOURNMENT OF MEETING

STATE OF CALIFORNIA)
COUNTY OF SAN DIEGO)

I, Ranae Ogilvie, hereby certify that I am the duly appointed, qualified Assistant Secretary of the Board of Directors of Vista Irrigation District; that the foregoing is duly noted in the Minutes of said Regular Meeting of the Board of Directors of Vista Irrigation District; that said Regular Board Meeting was ordered adjourned to the time and place above specified; and that I posted a copy of this order of adjournment near the public entrance to the Board Room at the offices of the District.



Ranae Ogilvie, Assistant Secretary
Board of Directors
Vista Irrigation District

POSTED: November 3, 2021