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

April 15, 2026

An Adjourned Meeting of the Board of Directors of Vista Irrigation District was held on Wednesday, April 15, 2026, at the offices of the District, 1391 Engineer Street, Vista, California.

1. CALL TO ORDER

President Miller called the meeting to order at 9:00 a.m.

2. ROLL CALL

Directors present: Miller, Nuñez, Kuchinsky, Sanchez, and MacKenzie.

Directors absent: None.

Staff present: Brett Hodgkiss, General Manager; Ramae Ogilvie, Secretary of the Board; Lesley Dobalian, Director of Water Resources; Randy Whitmann, Director of Engineering; Frank Wolinski, Director of Operations and Field Services; Shallako Goodrick, Director of Administration; Christina Olson, Engineering Service Manager; Brent Reyes, Management Analyst; and Elizabeth Xaverius, Administrative Assistant. General Counsel Gena Burns of Burke, Williams & Sorensen was also present.

Other attendees: Jerimy Billy of the San Luis Rey Indian Water Authority; Chris Stephan of Moleaer, Inc.; Don Lincoln, Representative for the City of Escondido; and J.P. Semper of Brown and Caldwell.

3. PLEDGE OF ALLEGIANCE

Director Sanchez led the Pledge of Allegiance.

4. APPROVAL OF AGENDA

26-04-32	***Upon motion by Director Kuchinsky, seconded by Director Nuñez and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors approved the agenda as presented.***

5. ORAL COMMUNICATIONS

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

6. CONSENT CALENDAR

26-04-33	***Upon motion by Director MacKenzie, seconded by Director Kuchinsky and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors approved the Consent Calendar, including Resolution No. 2026-13 approving disbursements.***

A. Annual Traffic Control Services

See staff report attached hereto. Staff recommended and the Board authorized the General Manager to renew the agreement with Cecilia's Safety Service, Inc., to provide traffic control services for Fiscal Year 2027 in an amount not to exceed $575,000.

B. Waterline Project Approval

See staff report attached hereto. Staff recommended and the Board approved this waterline project for a 46-lot single-family residential development within approximately 9.2 gross acres owned by Lennar Homes, located at 2123 North Santa Fe Avenue, Vista (LN 2021-038; APN 159-240-07; DIV NO 1).

C. Minutes of the Public Affairs Committee meeting on March 24, 2026

The minutes of March 24, 2026 were noted and filed.

D. Minutes of Board of Directors meeting on April 1, 2026

The minutes of April 1, 2026 were approved as presented.

E. Resolution ratifying check disbursements

RESOLUTION NO. 2026-13

BE IT RESOLVED, that the Board of Directors of Vista Irrigation District does hereby approve checks numbered 79504 through 79583 drawn on US Bank totaling $687,395.50.

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 15th day of April 2026.

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7. LAKE HENSHAW OXYGENATION PILOT STUDY

See staff report attached hereto.

Director of Water Resources Lesley Dobalian stated the Oxygenation Pilot Study (Pilot Study) is intended to be a long-term measure to mitigate and manage Harmful Algal Blooms (HABs) in Lake Henshaw. She provided an overview of the challenges encountered with the implementation of the initial design and delivery system that used supersaturated dissolved oxygen technology which relied on submerged pumps and liquid oxygen. Ms. Dobalian stated alternative delivery systems were evaluated, and nanobubble technology was determined to be most feasible to implement and better suited for the Pilot Study.

Ms. Dobalian explained Moleaer, Inc. (Moleaer) has patented nanobubble technology that concentrates oxygen in the air by removing nitrogen and delivers it as nanobubbles to increase oxygen in the water column and at the sediment-water interface. She stated three barges would be needed to deliver oxygen required for the Pilot Study. Ms. Dobalian reviewed the estimated costs for the Pilot Study in Fiscal Years (FYs) 2026, 2027 and 2028.

Ms. Dobalian stated that the preliminary environmental assessment concluded that there would be no direct or foreseeable indirect significant impacts on the environment from the Pilot Study.

Ms. Dobalian introduced Chris Stephan of Moleaer to address the Board's questions. Mr. Stephan provided clarification regarding the contents of each barge container. He stated Moleaer's agreement includes project management services and that Moleaer would take a lead role in coordinating system-related activities. Mr. Stephan confirmed that Moleaer has evaluated the site where the system will be launched and provided the Board with step-by-step details of the delivery and installation process.

In response to Director Sanchez's question regarding other locations where Moleaer's system is being utilized, Ms. Dobalian said that it is currently being used at Lake Elsinore. Mr. Stephan said that GEI Consultants, Inc. completed a one-year report evaluating the effectiveness of the system at Lake Elsinore which noted positive results. Mr. Sanchez requested that the Board receive a copy of the final report when available; he also commended staff for obtaining funding for the Pilot Study from Metropolitan Water District (MWD).

In response to Director Kuchinsky's question regarding special training for District staff, Mr. Stephan confirmed that Moleaer would be providing operation, maintenance and troubleshooting training for staff.

Ms. Dobalian confirmed the Pilot Study would operate from March 2027 through October 2027; she noted that the District would have the option to extend the lease, remove the system or purchase the system at the end of the eight-month Pilot Study.

Director Kuchinsky asked about the lifespan of the system; Mr. Stephan said it has a lifespan of 30 years (pumps, air compressor and nanobubble generator); he noted the parts can be rebuilt or replaced, if necessary.

In response to insurance-related questions from Director Kuchinsky, Ms. Dobalian stated that the Association of California Water Agencies Joint Powers Insurance Authority (ACWA JPIA) has been provided with the information relevant to Moleaer's contractual insurance requirements, and the District has received an estimate for the cost of the additional coverage.

Director Nuñez inquired about Moleaer's success rate; Mr. Stephan stated that Moleaer has installed 700 systems in natural water bodies with a demonstrated success rate of 99 percent. Ms. Dobalian added that oxygen has been used in other lakes, and it has been proven to improve water quality; however, it has not been used to the same extent to control HABs. She explained that the Pilot Study is appropriate to determine the system's effectiveness before deciding to purchase the system.

Director Kuchinsky inquired about the District's partners and their involvement; Ms. Dobalian said the District has been updating its partners about the Pilot Study and has been involving them in meetings. Ms. Dobalian introduced Don Lincoln, representative for the City of Escondido (City), who confirmed that City staff have been involved in discussions regarding the Pilot Study. He added that costs related to HABs mitigation and management are being shared equally by the District and the City.

Director MacKenzie inquired about the status of the MWD funding award; Ms. Dobalian provided an update.

26-04-34	***Upon motion by Director Sanchez, seconded by Director MacKenzie and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors authorized the General Manager to execute a lease agreement for oxygen nanobubble treatment equipment and maintenance in an amount of $1,211,040 and a professional services agreement for onsite commissioning support, project management and data analysis in an amount of $95,000 for a total not-to-exceed amount of $1,306,040 with Moleaer, Inc. for the Lake Henshaw Oxygenation Pilot Study; and found that the Lake Henshaw Oxygenation Pilot Study is categorically exempt from the California Environmental Quality Act (CEQA) under the State CEQA Guidelines.***

8. REVENUE AGREEMENT

See staff report attached hereto.

Engineering Service Manager Christina Olson provided an overview of the County of San Diego's South Santa Fe Avenue Realignment Project (Project) which impacts the District's existing 8-inch waterline that

runs through the Project. She explained that it would not be feasible for the District to relocate the waterline in advance of construction or to construct the improvements concurrently with the Project due to the extent of the realignment and elevation changes. Ms. Olson stated that the County of San Diego has agreed to incorporate the District's waterline relocation into their Project and that all costs associated with relocating the District's infrastructure will be borne by the District; the revenue agreement (reimbursement agreement) covers waterline relocation design costs only. She stated construction is anticipated to begin in spring 2027 and continue for several years; the waterline relocation is estimated to cost about $1.2 million, which will be phased over time and incorporated into the District's mainline replacement budget. Ms. Olson said that a separate construction agreement will be brought to the Board for approval at a future meeting.

26-04-35	***Upon motion by Director MacKenzie, seconded by Director Kuchinsky and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors authorized the General Manager to enter into a Revenue Agreement with the County of San Diego for the design of the South Santa Fe Avenue Realignment Project (LN 2023-025; DIV NO 5).***

9. SCHOLARSHIP CONTEST

See staff report attached hereto.

Management Analyst Brent Reyes stated that each year the District invites high school seniors who live within its service area to compete in a scholarship contest. He reported that the Public Affairs Committee (Committee) reviewed five applications from eligible students and recommended that each applicant receive a scholarship award with the top-rated applicant receiving a $3,000 scholarship, the second rated applicant receiving a $2,500 scholarship and the remaining three applicants receiving $1,000 scholarships. Mr. Reyes confirmed that a press release would be issued when the students are awarded their scholarships.

26-04-36	***Upon motion by Director Kuchinsky, seconded by Director Nuñez and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors approved the Public Affairs Committee's recommendation to award a $3,000 scholarship to Rahel Chiwai from Mission Vista High School, a $2,500 scholarship to Taylor Sheridan from Rancho Buena Vista High School, and $1,000 scholarships to Stephanie Aguilar from Mission Vista High School, Kawai Chau from Rancho Buena Vista High School and Yahir Landeros from Vista High School.***

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

See staff report attached hereto.

President Miller reported that the San Diego County Water Authority (Water Authority) ratified an Exchange Water Delivery Agreement with the Eastern Municipal Water District and has upcoming meetings with the U.S. Bureau of Reclamation, MWD and agencies in Nevada and Arizona to explore an interstate water exchange. President Miller provided an overview of MWD's biennial budget for FYs 2027 and 2028.

At 10:52 a.m. the Board took a short break and returned to regular session at 11:00 a.m.

11. MEETINGS AND EVENTS

See staff report attached hereto.

Director Sanchez requested authorization to attend the California Special District Association's (CSDA's/CSDA) 2026 Annual Conference on August 24-27, 2026.

Director MacKenzie reported on her attendance at CSDA's 2026 Special District Legislative Days on April 6-7, 2026, noting topics of discussion.

Directors Nuñez and MacKenzie requested authorization to attend the CSDA Quarterly Dinner Meeting on May 21, 2026.

Director Kuchinsky stated he would be attending the ACWA JPIA Liability Program Committee Meeting in Sacramento on May 4, 2026. He noted that he would also be attending the Vista Chamber of Commerce Government Affairs Meeting on May 7, 2026.

President Miller and Director MacKenzie reported on their attendance of the MWD Diamond Valley Lake Inspection Tour on April 10, 2026, highlighting the tour of the Skinner Treatment Plant.

26-04-37	***Upon motion by Director Kuchinsky, seconded by Director MacKenzie and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors authorized Directors*** Nuñez ***and MacKenzie to attend the CSDA Quarterly Dinner Meeting on May 7, 2026, and Director Sanchez to attend the CSDA 2026 Annual Conference on August 24-27, 2026.***

12. ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

See staff report attached hereto.

General Manager Brett Hodgkiss stated that scholarship awards would be presented to the winners at the May 13, 2026 Board meeting.

The Board briefly discussed tracking new meters and services; it was noted that the Annual Comprehensive Financial Report (ACFR) includes yearly meter counts. The Board agreed that the ACFR provided sufficient information to track the number of meters added on an annual basis.

13. COMMENTS BY DIRECTORS

Director Sanchez suggested a sign be placed at the docks at Lake Henshaw to promote the Pilot Study and provide safety guidelines to lake users.

Mr. Hodgkiss confirmed staff submitted a comment letter to the California Air Resources Board regarding amendments to the Advanced Clean Fleet Regulations.

14. COMMENTS BY GENERAL COUNSEL

No comments were presented.

15. COMMENTS BY GENERAL MANAGER

Mr. Hodgkiss informed the Board that the American Society of Civil Engineers San Diego Section is awarding the Deodar Reservoir Rehabilitation Project with the Outstanding Seismic Retrofit Project award.

16. CLOSED SESSSION WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

At 11:20 a.m. President Miller announced that the Board would be going into closed session.

The Board returned to regular session at 11:30 a.m. Ms. Burns noted that there was no reportable action.

14. ADJOURNMENT

There being no further business to come before the Board, at 11:31 a.m., President Miller adjourned the meeting.

Marty Miller, President

ATTEST:
Elizabeth Xaverius, Assistant Secretary
Board of Directors
VISTA IRRIGATION DISTRICT

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 6.A

Board Meeting Date: April 15, 2026
Prepared By: Frank Wolinski
Approved By: Brett Hodgkiss

SUBJECT: ANNUAL TRAFFIC CONTROL SERVICES

RECOMMENDATION: Authorize the General Manager to renew the agreement with Cecilia's Safety Service, Inc. to provide traffic control services for Fiscal Year 2027 in an amount not to exceed $575,000.

PRIOR BOARD ACTION: At its June 4, 2025 meeting, the Board authorized the General Manager to enter into an agreement with Cecilia's Safety Service, Inc. to provide traffic control services for District jobs for Fiscal Year (FY) 2026 in an amount not to exceed $575,00.

FISCAL IMPACT: This agreement is proposed for an amount not to exceed $575,000. Actual costs for this contract in FYs 2024 and 2025 were $499,620 and $533,440, respectively; thus far, approximately $308,893 has been expended in the first nine months of FY 2026.

SUMMARY: Historically, the District has used outside traffic control services to reduce costs, better utilize District staff and minimize service disruption time during construction and repair; outsourcing this service transfers associated risk and provides our customers and field crews a safe and efficient work environment. During FY 2026, Cecilia's Safety Service, Inc. successfully provided reliable traffic control services for District jobs. The current agreement with Cecilia's Safety Service, Inc. allows for the District to renew the agreement through FY 2027.

DETAILED REPORT: In April 2025, the District advertised and solicited bids for traffic control services throughout the District's service area. Of the three traffic control companies that submitted responsive bids, Cecilia's Safety Service, Inc. provided the lowest overall bid based on labor rates for flagging and traffic plan services. Based on the results of the bidding process, the District entered into an agreement with Cecilia's Safety Service, Inc. for FY2026 with the option to renew the agreement for two additional one-year periods.

As Cecilia's Safety Service, Inc. has provided reliable service to the District during FY 2026, staff recommends exercising the District's first option to renew the agreement for a one-year period for FY 2027 in an amount not to exceed $575,000. Cecilia's Safety Service, Inc. hourly rates and traffic plan pricing (table below) remain the same for FY 2027.

Company	Regular	Overtime	Weekend & Holidays	Traffic Plans
Cecilia's Safety Service, Inc.	$95.00/hour	$95.00/hour	$95.00/hour	$1.00/sheet

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 6.B

Board Meeting Date:	**April 15, 2026**
Prepared By:	**Christina Olson**
Reviewed By:	**Randy Whitmann**
Approved By:	**Brett Hodgkiss**

SUBJECT: WATERLINE PROJECT APPROVAL

RECOMMENDATION: Approve this waterline project for a 46-lot single-family residential development within approximately 9.2 gross acres owned by Lennar Homes, located at 2123 North Santa Fe Avenue, Vista (LN 2021-038; APN 159-240-07; DIV NO 1).

PRIOR BOARD ACTION: None.

FISCAL IMPACT: None.

SUMMARY: The District has signed the improvement plans for this development; approval of this project will allow the General Manager to execute a construction agreement for the installation of the proposed waterline facilities.

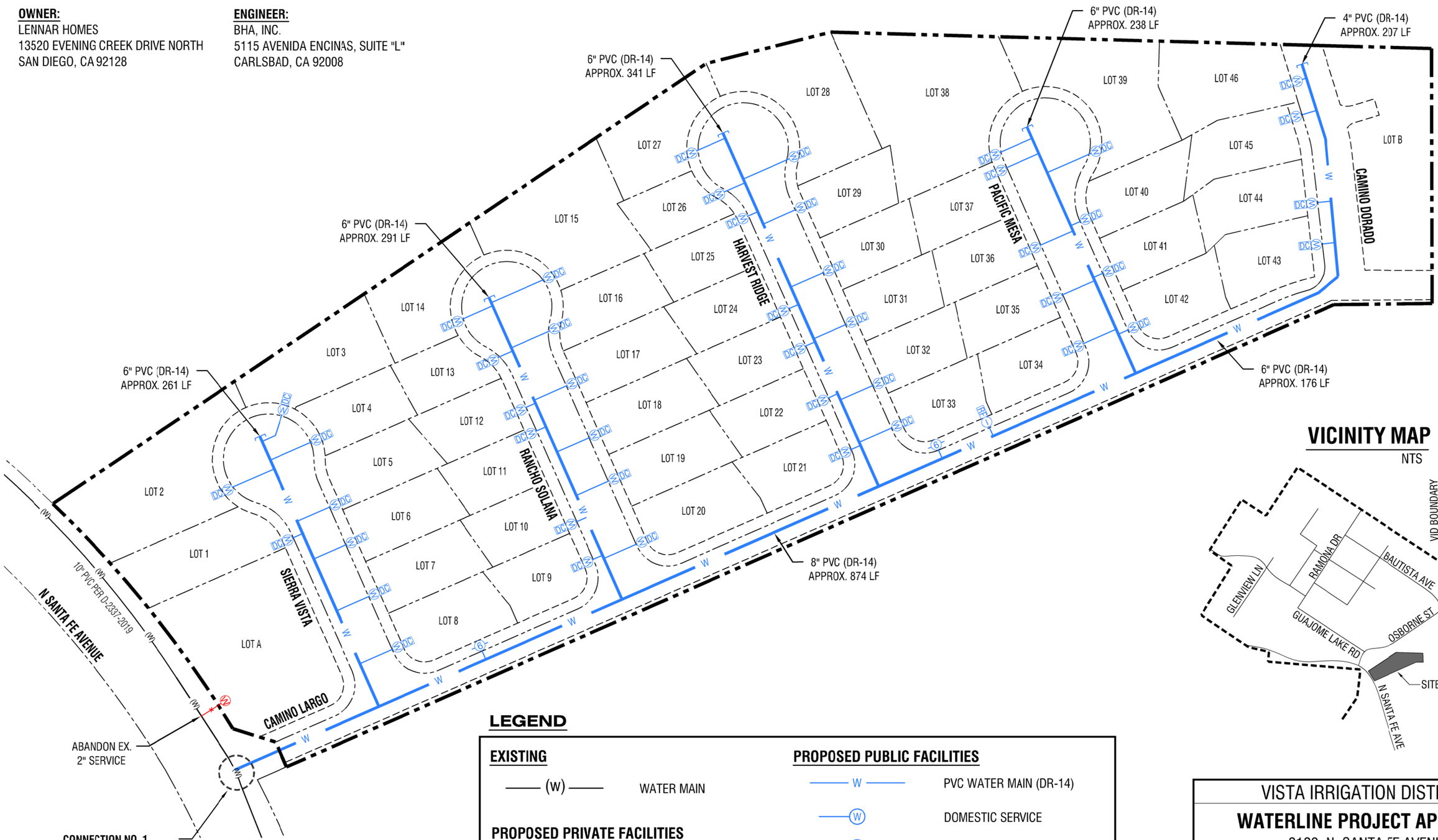
DETAILED REPORT: Under District inspection, the owner's contractor will install approximately 874 feet of 8-inch waterline, 1,307 feet of 6-inch waterline, 207 feet of 4-inch waterline, one 2-inch irrigation service and 1.5-inch meter, 46 1-inch domestic services and ¾-inch meters, two fire hydrant assemblies and make connections as approved on the plans. The new water facilities will be located within a new Specific Easement (T56) along Camino Largo, Sierra Vista, Rancho Solana, Harvest Ridge, Pacific Mesa, and Camino Dorado. The owner will also submit applications and pay the necessary fees to the District for water meters. Approval of this waterline project will allow the owner to proceed with the development of their project.

CALIFORNIA ENVIRONMENTAL QUALITY ACT: The City of Vista is the lead agency for this development under the California Environmental Quality Act.

ATTACHMENT: Map

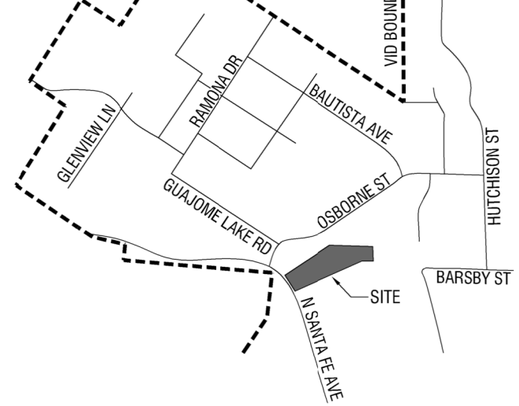
OWNER:
LENNAR HOMES
13520 EVENING CREEK DRIVE NORTH
SAN DIEGO, CA 92128

ENGINEER:
BHA, INC.
5115 AVENIDA ENCINAS, SUITE "L"
CARLSBAD, CA 92008



CONNECTION NO. 1
CONNECT PROPOSED 8" PVC (DR-14) TO EXISTING 10" PVC WATER MAIN

VICINITY MAP
NTS



LEGEND

EXISTING
- (W) WATER MAIN

PROPOSED PRIVATE FACILITIES
- DC DC BACKFLOW
- RP RP BACKFLOW

PROPOSED PUBLIC FACILITIES
- W PVC WATER MAIN (DR-14)
- W DOMESTIC SERVICE
- I IRRIGATION SERVICE
- 6 FIRE HYDRANT
- GRANT OF RIGHT OF WAY (T56)
- ABANDON SERVICE LATERAL

VISTA IRRIGATION DISTRICT

WATERLINE PROJECT APPROVAL

2123 N. SANTA FE AVENUE

APN 159-240-07		T.B.
SCALE: NO SCALE		L.N. 2021-038
APPD. BY CO	DATE 4/02/26	W.O.
DRAWN BY JR	DATE 3/30/26	
SHEET 1 of 1	MAP E07	
REVISED 4/1/26 JOSE E. RODRIGUEZ		

I\:Eng Staff Reports(rs)\Future\Jose R\Camino Largo.dwg

Cash Disbursement Report

Payment Date 03/19/2026 - 04/01/2026

Payment Number	Payment Date	Vendor	Description	Amount
79504	03/25/2026	Refund Check 79504	Customer Refund - Construction Meter Deposit	4,319.42
79505	03/25/2026	Refund Check 79505	Customer Refund - Construction Meter Deposit	4,451.79
79506	03/25/2026	Agile Occupational Medicine, PC	DOT Annual Physical	181.00
79507	03/25/2026	Amazon Capital Services	Chainsaw Supplies	1,089.49
	03/25/2026		Phone Case	5.41
	03/25/2026		Office Supplies	41.27
79508	03/25/2026	AT&T	9391013680/CALNET 02/13/2026 - 03/12/2026 Phones	2,020.57
	03/25/2026		9391060230/CALNET 02/13/2026 - 03/12/2026 Tel Con	6.42
79509	03/25/2026	BSK Associates	PFAS Sampling - Henshaw Well #8A & #14A	880.00
	03/25/2026		PFAS Sampling - Henshaw Well #29A & #31A	960.00
79510	03/25/2026	Burke, Williams & Sorensen, LLP	Legal - General 02/2026	213.60
	03/25/2026		Legal - General 02/2026	3,981.30
	03/25/2026		Legal - General 02/2026	3,783.20
79511	03/25/2026	California Department of Justice	Fingerprinting	49.00
79512	03/25/2026	Cecilia's Safety Service Inc	Traffic Control - Cassou Meadows Rd / Buena Creek	4,037.50
	03/25/2026		Traffic Control - Jonathan St	2,945.00
	03/25/2026		Traffic Control - Bonair Rd	1,282.50
79513	03/25/2026	City Of Escondido	EVWTP Costs Jan & Feb 2026	362,216.50
79514	03/25/2026	Complete Office of California, Inc	Office Supplies	170.53
	03/25/2026		Office Supplies	78.59
79515	03/25/2026	Core & Main	Fire Hydrant LB400 Check Valve (5)	9,877.82
	03/25/2026		Service Saddle 8x2 PVC (19)	4,795.09
	03/25/2026		Gate Valve 8" POxFL R/W (2)	3,603.90
	03/25/2026		Wire 10 Copper (3,000)	1,348.30
	03/25/2026		Corp Stop 2" MIP X FIP (19)	6,495.22
	03/25/2026		Pipe 8" PVC DR-14 C900 (1800)	37,976.27
79516	03/25/2026	Diamond Environmental Services	Portable Restroom Service	553.78
79517	03/25/2026	DIRECTV	Direct TV Service	129.99
79518	03/25/2026	Electrical Sales Inc	E32 Regulator Electrical Rehab	1,001.33
79519	03/25/2026	Employee Relations, Inc	Background Checks	143.44
79520	03/25/2026	Ferguson Waterworks	DFW Meter Box Lid Large PW6C (VID Stamp) (11)	1,309.83
	03/25/2026		DFW Meter Box Lid 3.5 DFW36C (VID Stamp) (4)	173.20
	03/25/2026		DFW Meter Box Lid Small D1324 (VID Stamp) (54)	3,974.94
	03/25/2026		DFW Meter Box Large DFWPW6C4-12 (20)	2,922.75
	03/25/2026		Coupling Meter 1" x 3.5" (2)	58.33
	03/25/2026		Coupling 1"x1" Female Flare x Super Grip (15)	555.16
	03/25/2026		Coupling Meter .75" x 3" (2)	34.83
	03/25/2026		Service Saddle 4x1 PVC	155.94
	03/25/2026		Coupling 8" Deflection C900 (4)	497.52
	03/25/2026		Ell 6"x16" POxFL Bury DI (2)	988.54
	03/25/2026		Adapter 6" DI POxFL (2)	486.91
	03/25/2026		Grease No-Oxide 1 gal (2)	187.27

	03/25/2026		Ell 8" DI POxFL 45 Degree	474.95
	03/25/2026		Sleeve 8"x12" Galvanized Top Sections (50)	638.68
	03/25/2026		Pipe 8" PVC DR-14 C900 (20)	418.93
	03/25/2026		Sleeve 10"x12" Galvanized Top Sections (10)	165.62
	03/25/2026		Ell 8" DI PO 45 Degree (2)	710.66
	03/25/2026		Ell 4" DI FL 90 Degree	193.50
	03/25/2026		Fire Hydrant Spool 6x12 DI	205.68
	03/25/2026		Reducer 6x4 DI POxFL	224.46
	03/25/2026		Adapter 4" DI FLxPO (2)	312.41
	03/25/2026		Coupling CTS QJ X CTS QJ2 AY McDonal #4758Q (3)	450.10
79521	03/25/2026	Grainger	Switch Timer & Ducting - #E-32	271.75
	03/25/2026		Access Hatch - RWS	306.93
	03/25/2026		Sump Pump - #E32	257.07
79522	03/25/2026	Hawthorne Machinery Co	Brush Kit - Brushes #B-10"s	956.51
79523	03/25/2026	Jackson & Blanc	Leak Repair	1,111.00
79524	03/25/2026	Jan-Pro of San Diego	Janitorial Service 03/2026	4,497.00
79525	03/25/2026	Kronick Moskovitz Tiedemann & Girard	Legal 01/2026	4,891.83
79526	03/25/2026	Lawnmowers Plus Inc	Belts For TS420 Concrete Saw's	115.60
79527	03/25/2026	Liebert Cassidy Whitmore	Legal Service	388.00
79528	03/25/2026	Moodys	Dump Fees (4)	1,200.00
79529	03/25/2026	Mutual of Omaha	LTD/STD/Life Insurance 04/2026	7,802.34
79530	03/25/2026	NAPA Auto Parts	Trailer Connectors / Adaptors	99.42
79531	03/25/2026	North County Industrial Park	Monthly Association Dues 04/2026	1,154.00
79532	03/25/2026	O'Reilly Auto Parts	Battery For - #85's Welder	162.34
79533	03/25/2026	Pacific Pipeline Supply	Pipe - E32 Regulator Vault	363.44
	03/25/2026		Replacement Spool	1,094.66
79534	03/25/2026	Ramco Petroleum	Fuel	1,943.86
79535	03/25/2026	Ramona Disposal Service	Trash Service	359.73
	03/25/2026		Trash Service	359.73
79536	03/25/2026	San Diego Friction Products	Clamp For PTO Hose - Truck #1	26.32
79537	03/25/2026	San Diego Gas & Electric	Electric 02/2026 - Cathodic Protection & TD / Pump Stations	16,385.49
79538	03/25/2026	Sunbelt Rentals	Concrete	355.37
79539	03/25/2026	UniFirst Corporation	Uniform Service	249.40
79540	03/25/2026	Verizon Wireless	Air Cards	152.04
79541	03/25/2026	Vista Paint Corporation	Alkyd Epoxy Paint	83.85
79542	03/25/2026	TS Industrial Supply	JAC-25688 NEMESIS SMOKE / BLACK FRAME (24)	218.44
	03/25/2026		JAC-25679 NEMESIS CLEAR LENS / BLACK FRAME (12)	106.66
	03/25/2026		TYT-VT2100413P 413P 2IN X X100FT BLACK PIPE (36)	331.34
	03/25/2026		PYR-SB5620D GOLIATH SAFTY GLASSES BLACK/SMOKE (24)	254.08
	03/25/2026		TYV-TY120SWHXL0-X-LARGE STANDARD WHITE TYVEK (25)	218.67
	03/25/2026		RED-4201 1-1/4 PUTTY KNIFE 125 (4)	22.04
	03/25/2026		AER-710 WHITE STRIPING PAINT (24)	216.15
	03/25/2026		GAT-03928 LEMON-LIME GATORADE 144-2.12OZ PACKS	185.15
	03/25/2026		RED-4209 3 IN STIFF WALL SCRAPER (3)	25.05
	03/25/2026		AER-254 BLUE CONSTRUCTION MARKING PAINT 20oz (24)	146.53
	03/25/2026		AER-770 BLACK STRIPING PAINT (12)	108.08
	03/25/2026		LAA-537688 / WHITE PAINT BRUSH 3IN (20)	33.89
	03/25/2026		HOW-MAX-1 MAX-1 UNCORDED EAR PLUG 200/BX (2)	95.45

	03/25/2026		3M-1100 UNCORDED ORANGE EAR PLUGS 200PR BOX (2)	72.74
	03/25/2026		INT-602 3/4 X 60FT 7-MIL ELECTRICAL TAPE (30)	52.93
	03/25/2026		GRI-16CTDSKR5-3-1/4" X 9-GAUGE 16-PENNY VINYL COAT	51.38
	03/25/2026		Hydraulic Lines & Landing Gear - #T-22	183.03
79543	03/25/2026	Westturf Landscape Management Inc	Landscape Service	2,925.00
79544	03/25/2026	White Cap Construction Supply	Small Motor Fuel 50:1 Mix	760.52
	03/25/2026		Small Motor Fuel 50:1 Mix	161.33
79545	03/25/2026	Xerox Corporation	Xerox Supplies & Maintenance	346.67
79546	04/01/2026	Refund Check 79546	Customer Refund	149.39
79547	04/01/2026	Refund Check 79547	Customer Refund	158.55
79548	04/01/2026	Refund Check 79548	Customer Refund	540.00
79549	04/01/2026	A-1 Irrigation, Inc	Bushings & Adaptors	6.81
79550	04/01/2026	Airgas USA LLC	Welding Rod and Tips	145.62
79551	04/01/2026	Amazon Capital Services	Oil Bath Hub Cap's - #AZ-2	37.89
	04/01/2026		Sling Chain & TS420 Concrete Saw Parts	173.80
	04/01/2026		Footwear Program	113.11
	04/01/2026		Aluminum Binder For Vehicle Maintenance Record	40.37
	04/01/2026		Headseat	105.55
79552	04/01/2026	Big Drip Plumbing	Meter Tie-Backs - Cassou Meadow (3)	4,350.00
79553	04/01/2026	Cecilia's Safety Service Inc	Traffic Control - Cassou Rd / Buena Creek	5,842.50
	04/01/2026		Traffic Control - Highland Dr	2,327.50
	04/01/2026		Traffic Control - Brisco Ct	1,567.50
	04/01/2026		Traffic Control - Hacienda Dr	2,422.50
	04/01/2026		Traffic Control - Geronimo Pl	570.00
	04/01/2026		Traffic Control - N Melrose / Highland	712.50
79554	04/01/2026	City of Oceanside	Weese Treatment - Jan/Feb 2026	85,138.79
79555	04/01/2026	Coastal Chlorination & Backflow	Chlorination Services	977.00
79556	04/01/2026	Complete Office of California, Inc	OFD Board For Controls	78.05
79557	04/01/2026	Direct Energy	Electric - 03/2026 - Henshaw Buildings / Wellfield	18,105.63
79558	04/01/2026	D & H Water Systems, Inc	CL2 Probes for Plant 2 & 9	4,961.24
	04/01/2026		Depolox Membrane Kits (2)	650.82
79559	04/01/2026	Electrical Sales Inc	SCADA Radio Antenna Master	93.32
	04/01/2026		Wire & Ground Rod - Well #3	415.55
79560	04/01/2026	Ferguson Waterworks	Coupling 8" Deflection C900 (10)	1,254.62
79561	04/01/2026	Hach Company	Lab Supplies	725.18
	04/01/2026		Lab Supplies	284.34
79562	04/01/2026	Inland Kenworth (US) Inc	Batteries - Truck #26	387.87
79563	04/01/2026	Lava Propane, LLC	Propane Refill	36.81
79564	04/01/2026	Lightning Messenger Express	Messenger Service 03/01/2026 - 03/15/2026	72.00
79565	04/01/2026	McMaster-Carr Supply Company	Pilot lights & Brass Parts	102.22
79566	04/01/2026	Moodys	Dump Fees (4)	1,200.00
	04/01/2026		Dump Fees (2)	600.00
79567	04/01/2026	Toyota of Escondido	Front Bench Seat - Truck #29	1,243.12
79568	04/01/2026	North County Auto Parts	Shop Chemicals & Supplies	45.63
79569	04/01/2026	Pacific Pipeline Supply	Gate Valve 8" POxFL R/W (2)	3,286.47
	04/01/2026		Angle Ball Mtr Valve 1" Flare Swl Mtr Nut (15)	2,614.24
	04/01/2026		Service Saddle 6x2 PVC (3)	555.32
	04/01/2026		Adapter 2" Copper x MIP (15)	276.04

	04/01/2026		Coupling 1"x1" Female Flare x Super Grip (6)	236.29
	04/01/2026		Coupling Meter 1x2"	30.31
79570	04/01/2026	Parkhouse Tire Inc	Tires (2) - #B-21	1,080.27
	04/01/2026		Tires (4) - Skidsteer #B-10	3,381.73
	04/01/2026		Tires (4) - #AZ-Z	1,165.88
79571	04/01/2026	Rincon del Diablo MWD	MD Reservoir Water Service	58.98
79572	04/01/2026	San Diego Friction Products	Hub Cap's - AZ-Z Trailer	61.34
79573	04/01/2026	San Diego Gas & Electric	Electric 03/2026 - VID Headquarters	802.74
	04/01/2026		Electric 03/2026 - VID Headquarters	6,019.66
	04/01/2026		Electric 03/2026 WCHR	85.20
79574	04/01/2026	Tifco Industries	Gloss White Spray Paint	350.60
79575	04/01/2026	Midas Service Experts	Tires (2) - Truck #74	503.59
79576	04/01/2026	UniFirst Corporation		253.44
79577	04/01/2026	United Pacific Services, Inc.	Tree Removal @ 839 Cassou Rd	1,920.00
79578	04/01/2026	Verizon Wireless	Cell Phones 02/16/2026 - 03/15/2026	1,781.35
	04/01/2026		SCADA Remote Access	469.31
79579	04/01/2026	Vista Printing	No Parking Signs (250)	128.82
79580	04/01/2026	WCT Products, Inc	Heavy Duty Leads - Locating Equipment	146.26
79581	04/01/2026	TS Industrial Supply	Hydraulic Line Adaptors - Trailer #T-22	42.27
	04/01/2026		2 1/2 Hoses	879.38
79582	04/01/2026	Xerox Corporation	Xerox Supplies & Maintenance	328.97
79583	04/01/2026	Zuza LLC	Daily Vehicle Checkout Sheets (50 pads)	420.01
			Grand Total:	**687,395.50**

VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 7** **Board Meeting Date:** **April 15, 2026** **Prepared By:** **Lesley Dobalian** **Approved By:** **Brett Hodgkiss**

SUBJECT: LAKE HENSHAW OXYGENATION PILOT STUDY

RECOMMENDATIONS:

1) Authorize the General Manager to execute a lease agreement for oxygen nanobubble treatment equipment and maintenance in an amount of $1,211,040 and a professional services agreement for onsite commissioning support, project management and data analysis in an amount of $95,000 for a total not-to-exceed amount of $1,306,040 with Moleaer Inc. for the Lake Henshaw Oxygenation Pilot Study.

2) Find that the Lake Henshaw Oxygenation Pilot Study is categorically exempt from the California Environmental Quality Act (CEQA) under the following State CEQA Guidelines: Class 1 section 15301 (Existing Facilities), 14 CCR § 15301; Class 3 section 15303 (New Small Facilities and Equipment), 14 CCR § 15303; Class 4 section 15304 (Minor Alterations to Land), 14 CCR § 15304; Class 6 section 15306 (Information Collection), 14 CCR § 15306; Class 7 section 15307 (Actions to Protect Natural Resources), 14 CCR § 15307; and Class 11 section 15311 (Accessory Structures), 14 CCR § 15311.

PRIOR BOARD ACTION: At its December 6, 2023 meeting, the Board received the Phase II Harmful Algal Blooms (HABs) Study and discussed its findings and recommendations, which included a lake oxygenation pilot system (Pilot Study) at Lake Henshaw. At its August 21, 2024 meeting, the Board authorized execution of a professional services agreement with Stillwater Sciences to provide services related to the design, construction, implementation and analysis of a Pilot Study at Lake Henshaw. At its March 5, 2025 meeting, the Board authorized execution of a Memorandum of Agreement with the San Diego County Water Authority for distribution of a grant award from the Metropolitan Water District's (MWD's or MWD) Future Supply Actions Funding Program (grant funding) for the Pilot Study.

FISCAL IMPACT: The Pilot Study is anticipated to be permitted, constructed and operational in Fiscal Years (FYs or FY) 2026 through 2028 for a total estimated cost of $2,536,040. The not-to-exceed amounts contained in the proposed lease and professional services agreements with Moleaer Inc. ($1,306,040) will cover costs to lease and maintain the nanobubble treatment equipment and support the Pilot Study through FY 2028; the balance ($1,230,000) will cover the District's costs related to permitting, monitoring and reporting, installation of the barge assemblies, electrical installation and power. Pilot Study costs and MWD grant funding will be shared equally by the District and the City of Escondido. Total net cost to the District for the Pilot Study is estimated at $1,018,020 (50 percent of Pilot Study costs less 50 percent MWD grant funding $1,268,020 - $250,000 = $1,018,020).

The following table summarizes the estimated costs for the Pilot Study in FYs 2026, 2027 and 2028; the FY 2026 Budget included $1,019,075 for the Pilot Study and the proposed FY 2027 Budget will include $842,830 for the Pilot Study.

Estimated FYs 2026, 2027 and 2028 Oxygenation Pilot Study Costs

Description	FY 2026	FY 2027	FY 2028	Total
Equipment rental, maintenance and project management support from Moleaer for 8 months*	-	1,112,660	193,380	1,306,040
Installation costs including barge assembly and mooring, crane support, and electrical installation	12,000	598,000	-	610,000
Equipment Insurance	-	5,000	5,000	10,000
Permitting, monitoring, data analysis and reporting	45,000	70,000	85,000	200,000
Power	-	150,000	150,000	300,000
Decommissioning	-	-	110,000	110,000
Total cost	57,000	1,935,660	543,380	2,536,040
MWD's Future Supply Actions Funding Program	-	(250,000)	(250,000)	(500,000)
Total net cost less funding award	57,000	1,685,660	293,380	2,036,040
District's portion of total costs	**$28,500**	**$842,830**	**$146,690**	**$1,018,020**

*The District will provide a security deposit of $459,640 (three months equipment rental at $137,380 per month for a total of $412,140 plus half of commissioning cost $47,500) prior to taking possession of the leased equipment. The remaining commissioning amount of $47,500 is due within 30 days of startup.

SUMMARY: The professional services and lease agreements with Moleaer, Inc. (Moleaer) are to support the Pilot Study, building on a work plan developed for oxygenation under the Phase II HABs Study and information learned from evaluating a temporary full-scale field trial at Lake Henshaw. If oxygenation is found to be effective, the need for ongoing short-term algaecides is likely to be significantly reduced or potentially eliminated.

DETAILED REPORT: The Pilot Study at Lake Henshaw will evaluate the effectiveness of oxygenation in controlling HABs without the need for capital investment required for a permanent installation. Oxygenation is hypothesized to limit the release of nutrients from reservoir sediments that are required for cyanobacterial growth, but its effectiveness in controlling HABs has not been demonstrated, particularly in a broad, shallow lake such as Lake Henshaw. If it is shown to be effective, the Pilot Study will help inform the sizing of a permanent system.

Work on the Pilot Study began in FY 2025 and was focused on permitting and designing a temporary oxygenation system. The initial design would have used submerged pumps to withdraw water from the reservoir, adding liquid oxygen (LOX) to the water under high pressure on land, and injecting supersaturated oxygenated water back to the reservoir near the lake bottom. However, challenges were encountered related to engineering design and implementation.

In August 2025, sediment depth was measured in the reservoir; the rich organic bottom sediment exceeded 15 feet in the deeper locations where the submersible pumps would have been placed, which was much greater than assumed in the initial design plans. In addition to being more costly, the greater depth would have required more structural support for the submersible pumps resulting in the Pilot Study no longer qualifying for streamlined permitting, leading to lengthy schedule delays. Other challenges included potential delays in contracting for construction considering Lake Henshaw's remote location, and much higher costs of liquid oxygen deliveries estimated to have increased by more than 400 percent from 2023 to 2025.

Given the design and constructability challenges associated with the delivery system described above, alternative systems were evaluated; nanobubble technology mounted on floating barges was determined to be better suited for the Pilot Study. Moleaer. has patented nanobubble technology that concentrates oxygen in air

by removing nitrogen and delivers the gas as nanobubbles to increase oxygen in the water column and at the sediment-water interface. Three barges would support nanobubble generators and intake/discharge pumps to deliver oxygen without the inherent risks associated with LOX deliveries. While the start-up costs between the two systems are comparable, the nanobubble technology is less expensive on an operational basis and simpler to implement since it does not require LOX. Permitting would also continue to be streamlined with the nanobubble technology. The oxygenation systems will run during spring through fall (April through October 2027) to evaluate the lake's response when HABs development is most likely.

The proposed professional services agreement with Moleaer is for $95,000 and covers commissioning support, project management and analysis. The proposed lease agreement with Moleaer is for $1,211,040 and covers the eight-month lease of equipment and maintenance for the three systems; Moleaer will also manage shipping logistics, trucking coordination and serve as a liaison between the District and contractors. The District will be responsible for permitting, crane and rigging operations, barge launch and positioning, fusion welded piping for the intake and discharge systems and the electrical supply to each system. Costs for the lease and professional services agreement total $1,306,040 with an option to extend the lease on a month-to-month basis at $151,380/month (covers equipment rental of $137,380 and maintenance costs of $14,000). The lease agreement also provides a purchase option available at the end of the eight-month lease for $3,967,300 for all three systems or $1,322,433 for each system.

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA): The District is the lead agency under CEQA. Environmental review indicates that the Pilot Study is categorically exempt under the following State CEQA Guidelines:

- **Class 1 section 15301 (Existing Facilities), 14 CCR § 15301**. The Pilot Study will consist of maintenance, permitting, and minor alternations to an existing water supply reservoir, Lake Henshaw, with no expansion of existing or former uses.

- **Class 3 section 15303 (New Small Facilities or Equipment), 14 CCR § 15303**. The Pilot Study will comprise installation of limited new pieces of equipment and structures that will have negligible or no impacts on the environment and that will require no changes to existing facilities.

- **Class 4 section 15304 (Minor Alterations to Land), 14 CCR § 15304**. The Pilot Study involves installation of facilities and equipment that will require only minor and temporary alterations to land, water, and vegetation that will have negligible or no impacts to the environment.

- **Class 6 section 15306 (Information Collection), 14 CCR § 15306**. The Pilot Study consists of basic data collection, research, experimental management, and resource evaluation activities that are intended to inform further agency decision-making and will not result in serious or major disturbance to environmental resources.

- **Class 7 section 15307 (Actions to Protect Natural Resources), 14 CCR § 15307**. The Pilot Study is intended to maintain, restore, and enhance Lake Henshaw by exploring methods to reduce HABs in the lake that can threaten local species, water quality, and drinking and irrigation water supplies. The Study is further intended to avoid the use of more environmentally harmful algaecides.

- **Class 11 section 15311 (Accessory Structures), 14 CCR § 15311**. The Pilot Study involves placement of temporary minor structures that are accessory to the existing Lake Henshaw industrial and institutional facilities, and will have negligible or no impacts on the environment.

Additionally, the Pilot Study will not have a direct or foreseeable indirect significant impact on the environment. If the Board determines that the Pilot Study is categorically exempt from CEQA, staff will file

a Notice of Exemption and continue to coordinate with regulatory agencies. The project file supporting the exemption determination is located at the District's office at 1391 Engineer Street, Vista, CA 92081.

ATTACHMENTS:

- Moleaer Proposal, April 1, 2026
- Proposed Notice of Exemption
- Preliminary Environmental Assessment

MOLEAER
ADVANCING NANOBUBBLE TECHNOLOGY

Oxygen Nanobubble Treatment for Lake Henshaw, CA, USA

Proposal Supplement for April 2026 Vista Irrigation Board Meeting

April 1, 2026

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Executive Summary

Moleaer submits this technical and commercial proposal to the Vista Irrigation District for the deployment of a large-scale nanobubble (NB) oxygen treatment system to restore water quality in Lake Henshaw, a 2,256-acre hypereutrophic reservoir in northeastern San Diego County serving over 280,000 people. Lake Henshaw has a history of recurring harmful algal blooms (HABs), elevated cyanotoxin levels, accumulated organic muck, and persistent low dissolved oxygen, conditions that threaten its value as a drinking water source, recreational fishery, and ecological asset.

Moleaer proposes three barge-mounted NB treatment units, a chemical-free solution permitted by the U.S. Army Corps of Engineers for environmental restoration in California.

Moleaer shall lead all aspects of system design, equipment supply, commissioning, and ongoing maintenance, including the nanobubble generators, hydraulic and pneumatic systems, control and monitoring infrastructure, intake screening, discharge piping design, barge and container systems, spare parts, and operation and maintenance documentation. Moleaer also manages all shipping logistics, trucking coordination, and serves as the primary liaison between the customer and involved contractors throughout the project. Vista Irrigation District is responsible for site preparation and access, environmental and construction permitting, primary electrical supply from the grid to the shore, crane and rigging operations, barge launch and positioning, HDPE piping supply and fusion welding for intake and discharge systems, and payment of electricity and applicable taxes. Full details are provided in the Installation and Service Responsibility Matrices within this document.

Moleaer is prepared to provide full project management services for the complete installation of the systems; however, these expanded services are not included in the current quote. The scope included in this proposal reflects Moleaer's responsibilities as defined in Sections 2 and 3. Moleaer can provide additional project management support, including increased coordination, oversight, and execution across project responsibilities, for an additional cost.

The proposed commercial structure is an 8-month Nanobubbles-as-a-Service (NaaS) lease of $1,306,040 USD for three systems, with a purchase option available at Month 9 for $3,967,300 for all 3 three systems or $1,322,433/ea system.

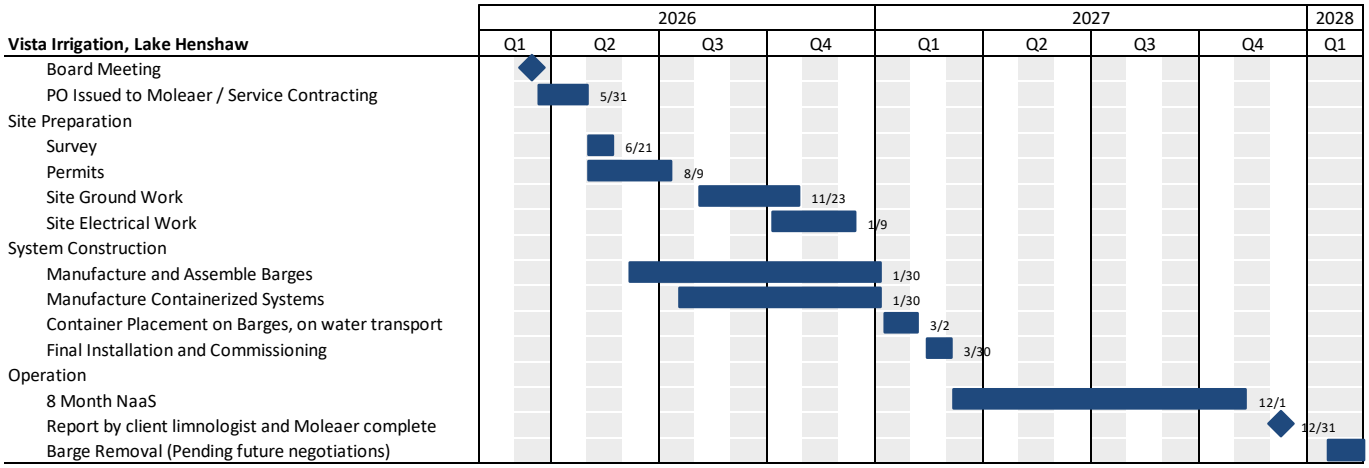

Figure 1. Project timeline. 1. Summary of Technical Proposal.

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Background of Water Quality Impairment in Lake Henshaw

Lake Henshaw is a local water supply reservoir owned by the Vista Irrigation District and is located on the San Luis Rey River in San Diego County. It is a large, shallow, hypereutrophic reservoir, covering 2,256 acres in surface area and 64.1 million cubic meters in volume when full. The reservoir captures surface water runoff and is augmented with groundwater pumping during dry years. Water from this lake is released downstream into the San Luis Rey River and travels through the Escondido Canal to Lake Wohlford, which in turn provides water to over 280,000 people in the City of Escondido's and Vista Irrigation District's service areas. Lake Henshaw is also particularly important for local recreation and fishing, and as a water source for recreational and tribal cultural uses by the La Jolla Band of Luiseño Indians and for groundwater recharge by the Rincon Band of Luiseño Indians.

Although watershed runoff containing nutrients is highest during the winter (December-February), internal nutrient loading represents the larger source of nutrients to the lake. This loading promotes and sustains HABs in the summer and fall. Following the peaks of these blooms, decomposing algae sinks to the lake bottom, utilizes available dissolved oxygen, and results in organic matter (or "muck") accumulation. The current depth of muck accumulation is 13 to 17 feet close to the fishing docks in the lake. Accordingly, periods of hypoxic or anoxic conditions also likely characterize the lake during these same periods of HABs and muck accumulation (i.e. in the late spring, summer, and early fall).

Moleaer's nanobubble (NB) technology can help restore water quality in Lake Henshaw by increasing dissolved oxygen (DO) and Oxidation-Reduction Potential (ORP) levels throughout the water column, especially at the sediment-water interface. Doing this will:

- Increase DO levels in the hypolimnion of the lake and reduce diurnal variation in DO.
- Accelerate natural, microbial decomposition (breakdown) of the thick layers of accumulated organics (or "muck") at the bottom of the lake.
- Improve water clarity and quality and reduce cyanobacteria and cyanotoxin levels.

Moleaer Background

Headquartered in Los Angeles, CA, and backed by Xylem, the world's largest water technology company, Moleaer is the global leader in NB technology. The company employs over 90 employees, serving more than 1,000 customers across 4,000+ installations worldwide. Our technical expertise is unparallelled, featuring 17 PhDs, a specialized staff of limnologists, and 16 dedicated service technicians, with three strategically positioned in California.

Moleaer's chemical-free solution stands as the most proven at-scale methodology for restoring water quality and clarity in lotic and lentic systems, reducing accumulated organics (or "muck"), and improving aquatic ecosystem health and resilience, benefitting surrounding communities.

Moleaer's patented NB technology provides a science-based, at-scale chemical-free solution to address critical environmental challenges. The U.S. Army Corps of Engineers has specifically permitted two Moleaer NB emergency environmental projects in California utilizing this sustainable approach, validating both its effectiveness and regulatory acceptance. In addition to this turnkey, ready-to-deploy solution that seamlessly complements existing contracted services, Moleaer's integrated solutions offering includes:

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- Industrial Scale Nanobubble Systems: Complete systems up to 20,000 gallons of water per minute (GPM) with pump, gas system, intake and discharge hoses, screening equipment and onsite power generation, as required
- 24/7 Installation and Operations Support: Installation, continuous monitoring, operation and maintenance services
- Water Quality Assurance: Comprehensive water quality monitoring and analysis protocols
- Environmental Assessment: Bathymetry, sediment hardness mapping, sediment quality and ecological analyses.

Treatment Strategy, Size, and Location

Three barge-mounted Moleaer NB treatment units will be located 425 feet offshore, in the deepest part of the lake, where the greatest muck accumulation occurs. Each NB treatment unit will be housed in a sea container with HVAC, and a 4,500 GPM container-mounted Xylem pump connected to grid power. Spuds will be used to keep each barge firmly in place, allow for changing water levels and keep the barge secure in extremely windy or inclement weather. An integrated air compressor and oxygen concentrator will be used to supply oxygen gas that will be used during treatment. Each NB treatment unit will comprise two Moleaer Trinity L6 NB Generators (NBGs) connected in-series to the pump and gas source, and these NBGs will inject up to 108 lbs of O2/hr into the treatment process stream of water. NB intake will be designed using a NOAA-approved specified intake screen and discharge will be situated in the middle of the water column.

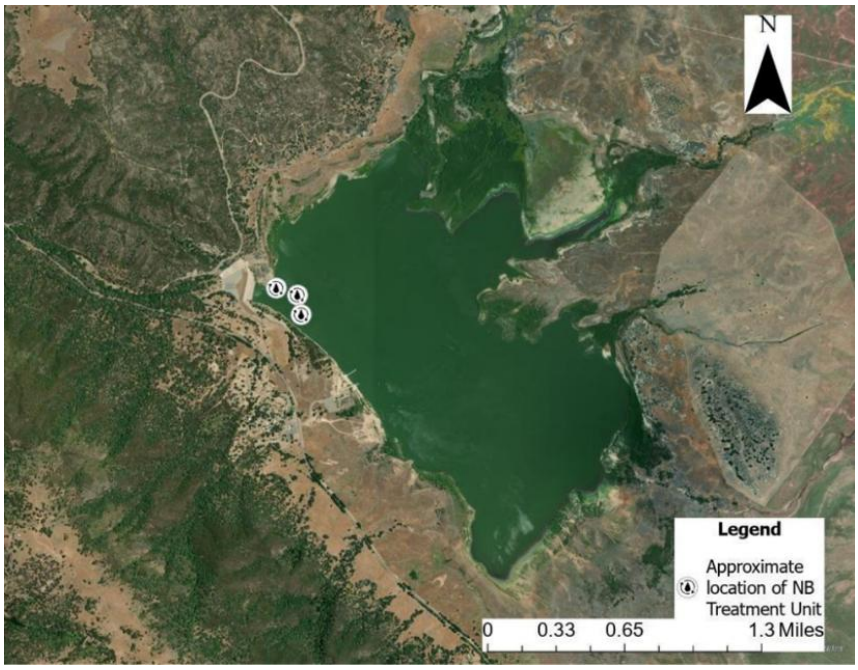

Figure 2. Proposed Location of Barges in Lake Henshaw

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Moleaer Nanobubble System Description:

Three barge-mounted Moleaer nanobubble treatment units will be located 425 feet offshore, anchored in the deepest part of the lake using spuds designed to maintain position during changing water levels and extreme wind or inclement weather conditions. Each unit is housed in an HVAC-equipped sea container mounted on an individual barge and connected to grid power (460V 3PH, 600A, est. 429 kW). Primary equipment per unit includes one container-mounted Xylem pump rated at 4,500 GPM, two Moleaer Trinity L6 NB Generators connected in-series, and one integrated PSA-style oxygen concentrator with air compressor. Intake piping consists of 16" suction rated PVC pipe fitted with a NOAA-approved intake screen conforming to the NOAA 1996 Addendum for Juvenile Fish Screen Criteria for Pump Intakes (NMFS 1996) to mitigate environmental liability related to fish and wildlife. Discharge piping consists of 12" suction rated PVC pipe, submerged beneath the water surface at the middle of the water column. Each unit injects up to 108 lbs of O2/hr into the process stream for treatment of freshwater conditions with high levels of algae and muck. All gas and liquid metrics, including flow and pressure, are monitored and controllable both on-site and remotely via Moleaer-engineered control logic, providing continuous operational oversight and the ability to shut down or adjust systems as conditions require. The total system across all three units represents a combined nominal flow rate of 13,500 GPM, a combined maximum oxygen injection rate of 324 lbs O2/hr, and an estimated total power consumption of 1,287 kW. Insurers should note that specific replacement values, fire suppression provisions, environmental containment measures, and inspection schedules should be confirmed with the system owner and operator.

Installation Photos

Figure 3: System Installation Picture

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Figure 4: System Installation Picture

Figure 5: Crane Placement of Container on Barge

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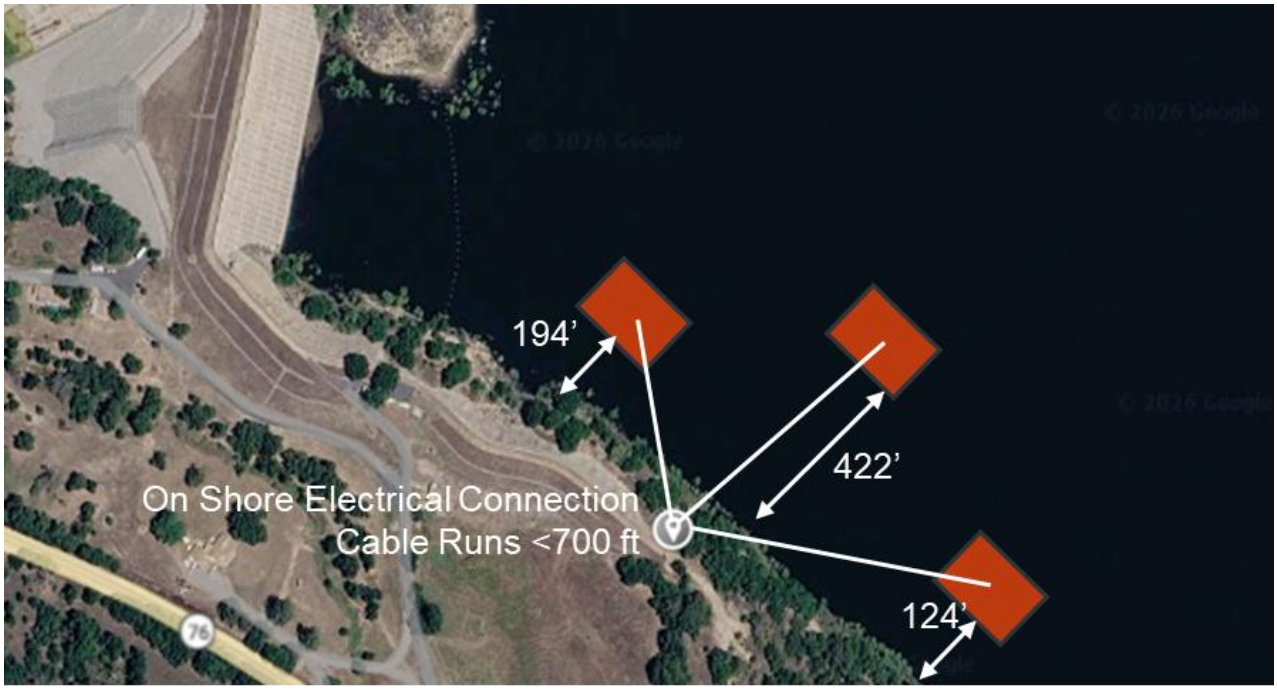

Figure 63: Approximate Barge Location Relative to Shore

2. Project Installation Responsibility Matrix

1. SITE PREPARATION & ACCESS	Moleaer	Vista Irrigation District
1.1 Supply of property/site access at Lake Henshaw		X
1.2 Bathymetric, sediment hardness and vegetation survey, Pre/Post NB	X	
1.3 Environmental permits and regulatory approvals		X
1.4 Site clearing and grading of shore access area		X
1.5 Construction laydown area designation and preparation		X
1.6 Temporary fencing for construction site security		X
1.7 Supply of supplemental lighting for work area		X
1.8 Security for securing work area after hours		X
1.9 Portable restroom facilities during construction		X

2. BARGE & CONTAINER SYSTEMS	Moleaer	Vista Irrigation District
2.1 Supply of 3 x Poseidon P1 Floating Barges (5 ft height)	X	
2.2 Supply and installation of trench safety barriers (if applicable)		X
2.3 Barge layout and engineering drawings	X	
2.4 Supply of spud pockets, spuds, and connections	X	
2.5 Supply of gantry cranes for barge operations	X	
2.6 Barge shipping arrangement to Lake Henshaw	X	

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2.7 Supply of 6 x 20' Sea Containers (2 per barge, ~15,000 lbs each)	X	
2.8 Container internal fit-out and equipment mounting	X	
2.9 Container welding of corner brackets		X
2.10 Supply of lift straps, shackles and rigging for crane operations		X
2.11 Supply of crane (min 50-ton capacity for container lifts)		X
2.12 Supply of crane operators and rigging crew		X
2.13 Barge launch and water deployment		X
2.14 Connection of modular barge units on water		X
2.15 Installation of spuds for barge anchoring		X
2.16 Push boat/tug for positioning barges at treatment location		X
2.17 Final barge positioning and anchoring		X
2.17 Supply of cable winch for spuds	X	

3. CONTAINER INFRASTRUCTURE	**Moleaer**	**Vista Irrigation District**
3.1 Air conditioning/ventilation for containers	X	
3.2 Sound proofing if required	X	
3.3 Parts & critical spares storage container	X	
3.4 120 VAC outlets and interior lighting	X	
3.5 Fire extinguishers for containers	X	
3.6 Fire suppression system for containers (confirm regulatory requirements)		X

4. ELECTRICAL SYSTEMS - PRIMARY POWER	**Moleaer**	**Vista Irrigation District**
4.1 Electrical load calculations and specifications	X	
4.2 Production/delivery of electrical supply to site		X
4.3 Trenching for primary power to Lake Henshaw shore		X
4.4 Conduit for electrical in trench		X
4.5 Primary power cable installation (trench to shore)		X
4.6 Transformers, disconnects and meters for primary power		X
4.7 Shore-mounted electrical junction box and switch		X
4.8 Medium/low voltage transformer if required		X
4.9 Directional boring as needed		X

5. ELECTRICAL SYSTEMS - BARGE POWER (700 ft 4/0 Cable)/ea	**Moleaer**	**Vista Irrigation District**
5.1 Selection/specification of 4/0 power cable	X	
5.2 Supply of 700 ft 4/0 cable (shore to containers)		X
5.3 Articulated concrete blanket for shore-to-water cable transition		X
5.4 Underwater cable installation from shore to barges		X
5.5 Supply of boat/barge for underwater cable installation		X
5.6 Connection of power cable to shore junction box		X
5.7 Connection of power cable to barge electrical panels		X
5.8 Inter-container power cable connections	X	

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5.9 PLC and HMI systems on NBG units	X	
5.10 Control wiring on NBG units	X	
5.11 Internet/WIFI installation for remote monitoring	X	
5.12 High/low voltage cable trays on barge (if needed)	X	

6. INTAKE SYSTEM (18" HDPE)	Moleaer	Vista Irrigation District
6.1 Supply of intake system specifications	X	
6.2 Mechanical layout and technical drawings	X	
6.3 Feed water extraction rights and permits		X
6.4 Supply of 18" active intake screen	X	
6.5 Supply of 18" HDPE piping and fittings		X
6.6 Supply of HDPE fusion welding machine		X
6.7 HDPE fusion welding operator		X
6.8 Installation of intake screen and supports		X
6.9 Intake piping assembly and installation		X
6.10 Priming system including water source	X	
6.11 Intake screen wash pump supply	X	
6.12 Intake valves and instrumentation	X	

Note: 6.5-6.9 subject to contractor scope of work.

7. NANOBUBBLE GENERATOR SYSTEMS	Moleaer	Vista Irrigation District
7.1 Supply of installation instructions & drawings	X	
7.2 Nanobubble Generator Units	X	
7.3 On-board air separator/oxygen concentrator	X	
7.4 On-board Oxygen Concentrator (if applicable)	X	
7.5 On-board NBG gas supply systems	X	
7.6 On-board system control and monitoring	X	
7.7 Supplemental monitoring systems	X	
7.8 Onboard Clean-in-Place (CIP) system	X	
7.9 NBG commissioning and startup	X	
7.10 Operator training	X	

8. DISCHARGE PIPING SYSTEM (12" HDPE)	Moleaer	Vista Irrigation District
8.1 Design and drawings for discharge piping	X	
8.2 Supply of 12" HDPE discharge piping and fittings		X
8.3 Discharge piping assembly and installation		X
8.4 Discharge valves and supports		X
8.5 Flow meters and data logging equipment	X	

Note: 8.2-8.4 subject to contractor scope of work.

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9. MATERIAL HANDLING & EQUIPMENT	Moleaer	Vista Irrigation District
9.1 Supply of forklift/reach lift on shore		X
9.2 Supply of skid steer or earth moving equipment		X
9.3 Equipment operators		X
9.4 Hand and power tools for installation		X
9.5 HDPE cutting tools (chop saw, chain saw)		X
9.6 Repair of damaged surfaces from equipment operation		X

10. SHIPPING & LOGISTICS	Moleaer	Vista Irrigation District
10.1 Shipping of Moleaer and barge equipment to Lake Henshaw	X	
10.2 Payment of shipping costs		X
10.3 Trucking coordination and communication	X	
10.4 Unloading of containers from trucks		X

11. PERMITS & COMPLIANCE	Moleaer	Vista Irrigation District
11.1 Construction permits		X
11.2 Environmental permits (lake operations)		X
11.3 Electrical permits and inspections		X
11.4 Work permits for personnel		X
11.5 Security clearances for site entry		X

12. HEALTH, SAFETY & ENVIRONMENT	Moleaer	Vista Irrigation District
12.1 Site-specific safety plan		X
12.2 EHS equipment for Moleaer employees	X	
12.3 EHS equipment for Customer employees		X
12.4 Water safety/rescue equipment	X	X
12.5 Health testing/security background checks		X
12.6 Disposal of hazardous materials found on site		X

13. SPARE PARTS & MAINTENANCE	Moleaer	Vista Irrigation District
13.1 Recommended spares list	X	
13.2 Initial spare parts & critical spares	X	
13.3 Ongoing spare parts supply	X	

14. TAXES & INSURANCE	Moleaer	Vista Irrigation District
14.1 Sales or excise taxes		X
14.2 Construction insurance		X
14.3 Marine insurance during installation		X

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15. POST-INSTALLATION	Moleaer	Vista Irrigation District
15.1 Landscaping restoration		X
15.2 Permanent fencing		X
15.3 Aesthetic improvements		X
15.4 As-built documentation	X	
15.5 O&M manuals	X	

NOTES:

- Responsibility for Supply includes Design, Engineering, PM and Drawings as Required
- All HDPE piping requires certified fusion welding
- Container lifts require crane capacity for 15,000 lb containers for desired reach
- 700 ft of 4/0 armored cable required for shore-to-barge power connection
- All underwater work requires proper marine permits

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3. Project Service Responsibility Matrix

1. OPERATING & MONITORING	Moleaer	Vista Irrigation District
1.1 Operation of, maintenance and upkeep of the property (The Site)		X
1.2 Maintenance of the floating barge for Nanobubble Generator (herein NBG) Unit (if applicable)	X	
1.3 Maintenance of all Buildings / Sunshade / Container / Enclosure as required to protect NBG	X	
1.4 Maintenance of any other item related to the Site		X
1.5 Water quality monitoring plan and execution		X

2. INTAKE SYSTEM	Moleaer	Vista Irrigation District
2.1 Operation and maintenance of the intake system	X	
2.2 Repairs and part replacement of the intake system or its components	X	
2.3 Maintenance and payment of feed water extraction rights, permitting, regulatory interactions		X
2.4 Maintenance of the feed water intake structures	X	
2.5 Maintenance of supplemental intake pump(s), valves, piping, controls, instrumentation, supports	X	
2.6 Maintenance of the priming system including water or liquid source for priming	X	
2.7 Maintenance of the feed water filtration equipment if installed	X	
2.8 Maintenance Feed water intake transmission piping from feed water source to NBG intake pump(s)	X	
2.9 Monthly check of Container welding of corner brackets for no cracks or loss of integrity	X	

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3. NANOBUBBLE GENERATOR SYSTEMS	Moleaer	Vista Irrigation District
3.1 Supply of operation, maintenance and troubleshooting instructional literature	X	
3.2 Supply of operation, maintenance and troubleshooting training for the customer	X	
3.3 Daily monitoring of NBG at the site / filling out data report.		X
3.4 Daily online monitoring of NBG operational data / creating and providing reports	X	X
3.5 Providing phone of video conference troubleshooting support and assistance		X
3.6 Providing on-site operator / technician for basic troubleshooting when required		X
3.7 Air Compressor Maintenance	X	
3.8 Pump Maintenance	X	
3.9 Ozone Generator Maintenance	N/A	
3.10 Supply of routine maintenance supplies, consumables and materials	X	
3.11 Providing routine factory maintenance visits at time intervals stated in this Agreement	X	
3.12 Maintenance, troubleshooting and repair of onboard monitoring system(s)	X	
3.13 Perform routine "Clean in Place" (herein CIP) if required between factory maintenance visits	X	

4. ELECTRICAL SYSTEMS	Moleaer	Vista Irrigation District
4.1 Payment of electricity		X
4.2 Maintenance of all electrical supply from the supply source to the main control panel		X
4.3 Maintenance of any electrical equipment on the NBG unit including the main control panel	X	
4.4 Maintenance of PLC and HMI on NBG unit	X	
4.5 Maintenance of 120 VAC outlets, lighting, etc.	X	

5. NANOBUBBLE DISCHARGE PIPING SYSTEM	Moleaer	Vista Irrigation District
5.1 Maintenance of the discharge piping system from the NBG discharge flange to the receiving waters	X	
5.2 Maintenance of lake area around discharge piping		X
5.3 Maintenance of discharge system meters, monitoring and/or data logging equipment	X	

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6. MISCELLANEOUS	Moleaer	Vista Irrigation District
6.1 Sales or Excise Taxes		X
6.2 Shipping of equipment & spare parts for NBG	X	
6.3 Payment of Shipping		X
6.4 Import Duties; Initiating Process for Customs Clearance/Receiving Cleared Goods	n/a	n/a
6.5 Import Duties; Facilitating Exemption/Expeditious Clearance of All Goods	n/a	n/a
6.6 Handling and Disposal of Any Existing Hazardous Materials Discovered on Site		X
6.7 Maintenance of all floor drains and drainage systems for the site and NBG	n/a	n/a
6.8 Maintenance of secondary containment of all systems if/as required	n/a	n/a
6.9 Landscaping maintenance		X
6.10 Fencing maintenance		X
6.11 Aesthetic Improvements		X
6.12 Maintenance of the air conditioning and/or ventilation equipment if required	X	
6.13 Work Permits; Requesting Permits, Providing Needed Information, Processing Oversight		X
6.14 Updating recommended spares list	X	
6.15 Initial Spare Parts & Critical Spares	X	
6.16 Ongoing Spare Parts & Critical Spares	X	
6.17 Payment and maintenance of internet / WIFI required for remote monitoring and any other purpose on site	X	
6.18 Maintenance of any fire suppression of fire related equipment	X	
6.19 Security clearances, administration for site entry by Moleaer factory personnel		X
6.20 Payment of any security/health related entry requirements (health testing, police records, etc.)		X
6.21 Supply, maintenance and storage of EHS equipment for Moleaer personnel	X	
6.22 Supply, maintenance and storage of EHS equipment for customer personnel		X

Project Management Description:

Moleaer will provide comprehensive project management support throughout the duration of the project to ensure seamless implementation of the system and clear communication across all parties. The project management included in this proposal:

- Moleaer Project Manager to be primary Point of Contact (POC) for VID related to project implementation to reduce needed communication and ensure coordination with needed Moleaer staff for current and scheduled project needs.
- Coordinate and/or attend regular mtgs (monthly, biweekly, weekly, then daily) with needed VID, contractor and Moleaer staff to ensure Moleaer-related scope of work and supply is aligned and provided with needed schedule and related activities in other stakeholder's scope of supply and work.

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- Preparation and maintenance of all project documentation related to the Moleaer NB systems, barge platforms, piping and intake systems, electrical requirements including General Arrangement Drawings, P&ID, Electrical Diagram and Operations & Maintenance (O&M) manuals.
- On site commissioning support by Moleaer Global Service Team Members (GST) and providing technical guidance to VID staff and contractors related to their scope of work and supply to ensure meets Moleaer specifications.
- Supply of material and GST labor to install necessary control wire, secondary power and air connections between the 2 containers per system (3 systems total) per Moleaer scope of work.
- System start up and optimization by Moleaer GST for air, pumping systems and Moleaer integrated NB systems to ensure system operational at specified rates.
- Moleaer GST training to VID staff and specified contractors for daily/weekly checks, operation and troubleshooting to align with scope of work and supply of all parties

As noted, Moleaer can provide increased services for implementation of this project for an additional fee that is not included in this proposal. This can include:

- Contracting and managing work of subcontractors related to items out of the current Moleaer Scope of Work related to primary power connection from shore to containers, freight of systems, unloading of containers and barges, assembly of barge systems, installation of piping, pushing barges from boat launch assembly location to installation location, deployment of spuds, provide services and labor to complete the suggested sampling/ monitoring plan, decommissioning of systems to return them at end of lease period and sampling per the suggested monitoring plan.

4. Project Costs

Pricing Summary

Moleaer is proposing to provide 8-months of Moleaer O2 NB treatment as Nanobubbles-as-a-Service (NaaS) per the terms and scope of work estimated at: $1,306,040 USD (including containers, barge and piping), plus costs associated with Vista Irrigation District's scope of work. The 8-month lease starts on day one of operation. Note, price does not include freight or appropriate sales taxes.

Pricing Estimate Overview	
Total Moleaer Scope of Supply & Work	$ 1,306,040
Total Customer Installation Scope of Work* - *See Table below*	$ 925,500
TOTAL ESTIMATED COST for 8-Month NaaS	**$ 2,231,540**
Purchase Price at Month-9	$ 3,967,300

**Monitoring plan and execution (power consumption) are not included in cost estimates*

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Lease Terms & Conditions

- Lease price is based on 8-month term with option to extend lease or buyout at any point after 8 months.
- Equipment Monthly lease rate: $137,380/mo.
- Operation and Maintenance Service fee: $14,000/mo.
- One-time onsite commissioning support and project management fee: $95,000.
- Initial and minimum term of lease and service plan is 8 months.
- Auto renewal: Lease auto renews on month-to-month basis, unless 30-day notice of cancellation is received in writing.
- Cancellation notice period: 30-day notice to cancel lease.
- Lease requires Moleaer service plan for duration of lease.
- Downpayment due to place order: $459,640 (3-month lease plus 50% of commissioning support). 3-month lease portion of downpayment is applied to optional purchase or returned to VID after equipment returned to Moleaer, Hawthorne, CA facility.
- Commissioning support: Remaining 50% ($47,500) due within 30 days of startup of system (Runs continuous for >3 days).
- Monthly payments: Net 30 days after 30 days of operation (Example: December operation paid for by Jan 31).
- Customer to have insurance coverage for full value of assets ($4,424,769) with Moleaer listed as additional insured.
- 12- months parts and labor warranty, or for entire period while under lease.
- Service plan covers scheduled maintenance items on pump, compressor, O_2 concentrator and controls.
- Damage or loss due to theft, vandalism, acts of God or other are not covered in service plan or warranty.
- Lease for equipment is FOB, Moleaer Inc, Hawthorne, CA. Customer responsible for inbound freight and offloading at site.
- Customer responsible for removal and freight of equipment back to Moleaer, Inc, Hawthorne, CA. *Cost is not included in the above estimate.*

Buyout Schedule:

Month	*Payment*	*Buyout Amount*
1	*$137,380.00*	*$4,207,863.42*
2	*$137,380.00*	*$4,175,997.13*
3	*$137,380.00*	*$4,143,331.78*
4	*$137,380.00*	*$4,109,847.33*
5	*$137,380.00*	*$4,075,523.25*
6	*$137,380.00*	*$4,040,338.48*
7	*$137,380.00*	*$4,004,271.43*
8	***$137,380.00***	***$3,967,300.00***

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9	$137,380.00	$3,929,401.49
10	$137,380.00	$3,890,552.66
11	$137,380.00	$3,850,729.69
12	$137,380.00	$3,809,908.14
13	$137,380.00	$3,768,062.97
14	$137,380.00	$3,725,168.52
15	$137,380.00	$3,681,198.48
16	$137,380.00	$3,636,125.87
17	$137,380.00	$3,589,923.05
18	$137,380.00	$3,542,561.68
19	$137,380.00	$3,494,012.70
20	$137,380.00	$3,444,246.34
21	$137,380.00	$3,393,232.07
22	$137,380.00	$3,340,938.60
23	$137,380.00	$3,287,333.85
24	$137,380.00	$3,232,384.95
25	$137,380.00	$3,176,058.18
26	$137,380.00	$3,118,318.99
27	$137,380.00	$3,059,131.98
28	$137,380.00	$2,998,460.82
29	$137,380.00	$2,936,268.32
30	$137,380.00	$2,872,516.32
31	$137,380.00	$2,807,165.71
32	$137,380.00	$2,740,176.41
33	$137,380.00	$2,671,507.34
34	$137,380.00	$2,601,116.35
35	$137,380.00	$2,528,960.29
36	$137,380.00	$2,454,994.89
37	$137,380.00	$2,379,174.78
38	$137,380.00	$2,301,453.46
39	$137,380.00	$2,221,783.24
40	$137,380.00	$2,140,115.27
41	$137,380.00	$2,056,399.44
42	$137,380.00	$1,970,584.40
43	$137,380.00	$1,882,617.52
44	$137,380.00	$1,792,444.84
45	$137,380.00	$1,700,011.05
46	$137,380.00	$1,605,259.44
47	$137,380.00	$1,508,131.91

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48	*$137,380.00*	*$1,408,568.87*
49	*$137,380.00*	*$1,306,509.24*
50	*$137,380.00*	*$1,201,890.44*
51	*$137,380.00*	*$1,094,648.28*
52	*$137,380.00*	*$984,716.98*
53	*$137,380.00*	*$872,029.12*
54	*$137,380.00*	*$756,515.57*
55	*$137,380.00*	*$638,105.47*
56	*$137,380.00*	*$516,726.20*
57	*$137,380.00*	*$392,303.29*
58	*$137,380.00*	*$264,760.44*
59	*$137,380.00*	*$134,019.41*
60	*$137,380.00*	*-$0.01*

Installation Costs Breakdown

The cost estimates provided in the table are Rough Order of Magnitude (ROM) values intended for planning and discussion purposes only. These estimates are based on currently available information, high-level assumptions, and typical cost factors associated with similar scope and activities. As such, they should be considered indicative rather than definitive.

These ROM estimates are provided in good faith to support evaluation of the proposed effort and do not represent a binding quote, commitment, or contractual obligation. Actual costs may vary based on final scope definition, technical requirements, schedule (budget timing constraints), resource availability, and other programmatic factors identified during subsequent phases of analysis and planning. A more detailed and refined cost estimate will be developed once requirements, scope boundaries, technical approach, and schedule assumptions are further defined and agreed upon by all parties.

ESTIMATED INSTALLATION COSTS*

	Cost Breakdown of Customer Responsibility in Section 5	Value	Basis Of Estimate
1	Shop mobilization and demobilization	$ 85,000	ROM based on contractor quote
2	Barge assembly and mooring	180,500	ROM based on contractor quote
3	Crane support	105,000	ROM based on contractor quote
4	Electrical and Articulated Concrete Mat (ACM) installation	453,000	ROM based on contractor quote
5	Permitting	102,000	ROM based on contractor quote
	Total Customer Installation Estimate for 3 Barges	**$925,500.00**	

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5. Suggested Monitoring Plan by Customer

Objectives of monitoring plan

The main water quality challenges characterizing Lake Henshaw include:

- Excess cyanobacteria growth, recurring HABs, and high cyanotoxin levels
- Extensive organics (or “muck”) accumulation
- Low or no DO in the hypolimnion of the lake
- Degraded water quality and clarity

Moleaer proposes to conduct O2 NB treatment in the lake for 8 months. As such, the goals of this proposed monitoring plan are to determine impacts of 8 months of NB treatment on:

- Cyanobacteria and cyanotoxin levels
- Muck accumulation
- DO levels in the hypolimnion of the lake
- Water quality (specifically phosphorus levels) and water clarity

Overview of monitoring plan

In addition to the sensors onboard the NB treatment unit, Moleaer’s limnologists propose Vista Irrigation District undertake a monitoring plan to collect baseline data and monitor changes in water and sediment quality, phytoplankton populations, and cyanotoxin levels under NB treatment. More details regarding this monitoring plan will follow. However, for the purposes of this document, a general overview of this plain is as follows:

This proposed monitoring plan will consist of two main components:

- Routine monitoring plan: Monthly collection of grab water and sediment samples from sampling locations in the lake that will be sent to an accredited laboratory to be analyzed for >15 chemical and biological parameters. Vertical profiles at 0.5-meter intervals spanning the entire water column and BioBase® sediment hardness mapping are also recommended.
- Continuous water quality monitoring sensors: Deployment of water quality sondes or PME Minidot® sensors that will continuously record water quality parameters.

Monitoring plan costs

Vista Irrigation District shall be responsible for all costs associated with the monitoring plan, including water quality sampling and analysis, laboratory fees, data reporting, equipment calibration, and any additional monitoring required by regulatory agencies.

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NOTICE OF EXEMPTION

To: County Clerk of San Diego
1600 Pacific Highway, Room 260
P.O. Box 121750
San Diego, CA 92112-1750

From: Vista Irrigation District
1391 Engineer Street
Vista, CA 92081-8836

Project Title: Lake Henshaw Oxygenation Pilot Study

Project Location - Specific: The proposed project is located on the western shore of Lake Henshaw on land owned by the Vista Irrigation District, located off California State Highway 76 in an unincorporated area of San Diego County, west of the community of Warner Springs, California. The lake is within the Mesa Grande quadrangle of the U.S. Geological Survey (USGS) 7.5-minute topographic map, at approximately 2,650 to 2,800 feet above sea level.

Project Location - City: Not applicable

Project Location - County: San Diego

Description of Project: The Lake Henshaw Oxygenation Pilot Study involves the design, construction, implementation, and analysis of a full-scale, temporary oxygenation system to evaluate the effectiveness of oxygenation in controlling harmful algal blooms (HABs) and improving water quality in Lake Henshaw. Commissioning, installation, and startup of the oxygenation system is planned from November 1, 2026 to April 1, 2027. The oxygenation system is expected to be decommissioned no later than December 31, 2027.

Name of Public Agency Approving Project: Vista Irrigation District

Name of Person or Agency Carrying Out Project: Vista Irrigation District

Exempt Status (check one)

[ ] Ministerial (Sec. 21080(b)(1); 15268);

[ ] Declared Emergency (Sec. 21080(b)(3); 15269(a);

[ ] Emergency Project (Sec. 21080(b)(4); 15269(b)(c);

[X] **Categorical Exemption. State type and section number**: State CEQA Guidelines:

- Class 1 section 15301 (Existing Facilities), 14 CCR § 15301;
- Class 3 section 15303 (New Small Facilities and Equipment), 14 CCR § 15303
- Class 4 section 15304 (Minor Alterations to Land), 14 CCR § 15304;
- Class 6 section 15306 (Information Collection), 14 CCR § 15306;
- Class 7 section 15307 (Actions to Protect Natural Resources), 14 CCR § 15307; and
- Class 11 section 15311 (Accessory Structures), 14 CCR § 15311

[ ] Statutory Exemptions. State code number:

Reasons why project is exempt: The proposed project is a temporary pilot study that is exempt because it consists of maintenance, permitting, and minor alternations to an existing water supply reservoir, Lake Henshaw, with no expansion of existing or former use. Further, the pilot study will involve installation of limited new pieces of equipment and structures that will have negligible or no impacts on the environment and that will require no changes to existing facilities. Any alternations to land, water, and vegetation will be minor and temporary and will have negligible or no impacts to the environment. The pilot study involves basic data collection, research, experimental management, and resource evaluation activities intended to inform further agency decision-making and will not result in serious or major disturbance to environmental resources. The purpose of the pilot study is to maintain, restore, and enhance the Lake Henshaw natural resource by exploring methods to reduce harmful algal blooms in the lake that can threaten local species, water quality, and drinking water supplies, and was selected to avoid the use of more environmentally harmful algaecides. Finally, the pilot study will install temporary minor structures that are accessory to the existing Lake Henshaw industrial and institutional facilities, and which will have negligible or no impacts on the environment. None of the exceptions listed in section 15300.2 of the CEQA Guidelines would apply to the proposed study.

Lead Agency Contact Person: Lesley Dobalian Telephone/Extension: (760) 597-3112

The Board of Directors approved the above described project on_____, and found that the project is exempt from the provisions of the California Environmental Quality Act, as amended.

If filed by applicant: Not applicable

1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project?__Yes __No

Submission of this form is optional. Local agencies may file this form with the County Clerk pursuant to Public Resources Code Section 21152(b). The filing of the notice starts a 35-day statute of limitations on court challenges to the approval of the project under Public Resources Code Section 21167(d). Failure to file the notice results in the statute of limitations being extended to 180 days.

Signature:_____ **Date**:_____ **Title**: Director of Water Resources

PRELIMINARY ENVIRONMENTAL ASSESSMENT

VISTA IRRIGATION DISTRICT
1391 ENGINEER STREET
Vista, CA 92081-8836

Name of Project: Lake Henshaw Oxygenation Pilot Study

Location: Western shore of Lake Henshaw, located off California State Highway 76 in unincorporated San Diego County, west of the community of Warner Springs, California.

Description: The Study involves the design, construction, implementation, and analysis of a full-scale, temporary reservoir oxygenation system to evaluate the effectiveness of oxygenation in controlling harmful algal blooms (HABs) in Lake Henshaw.

Background: The Lakes Henshaw and Wohlford HABs Management and Mitigation Plan was developed by Stillwater Sciences for the Vista Irrigation District (District) and the City of Escondido as part of a multi-phased management strategy that began in 2021 in response to elevated cyanotoxin concentrations in Lake Henshaw. The Plan identified a range of short-term and long-term mitigation options, and oxygenation was selected as a promising long-term approach for reducing or eliminating HABs. Bioavailable forms of nitrogen and phosphorus are necessary to support cyanobacteria growth and the development of HABs. Oxygenation is expected to affect the oxidation-reduction potential in Lake Henshaw bottom water and sediments, which should eliminate releases of these nutrients from bottom sediments into the water column and cut off a major source of nutrients for cyanobacteria.

The Lake Henshaw Oxygenation Pilot Study (Study) involves the design, construction, implementation, and analysis of a temporary, full-scale oxygenation system to evaluate its effectiveness in controlling HABs and improving water quality at Lake Henshaw. A temporary pilot study allows real-world evaluation of the concept without the substantial capital investment required for a permanent installation. It will also provide information on the size, type, and cost of a future permanent system for Lake Henshaw.

Commissioning, installation, and startup of the oxygenation system are planned from November 1, 2026 to April 1, 2027, with decommissioning by December 31, 2027. Proposed Study tasks include the following:

- Site improvements
- Equipment procurement and installation
- System operation and decommissioning
- Monitoring and data analysis

The equipment will be operated over approximately eight months to test oxygen addition and evaluate the lake's response. The Study will include extensive monitoring of water quality conditions through visual observations, remote sensing, grab samples, and infield instrumentation to measure cyanotoxin concentrations, nutrients, dissolved oxygen, and the phytoplankton community. Minor site improvements will be necessary to accommodate the oxygenation equipment.

Biological surveys were conducted assesses potential impacts on sensitive species and habitats within the Study area. Potential impacts on biological resources were found to be less-than-significant.
Supporting Map/Photos:

Figure 1. Existing road leading to the electric service site located near top of the hill.

Figure 2. Reservoir shoreline where electrical cables will be routed to deliver power to oxygenation equipment on the lake.

Environmental Determination:
The Vista Irrigation District is the lead agency for the Study under the California Environmental Act (CEQA).

The Study is categorically exempt under the following State CEQA Guidelines:

- **Class 1 section 15301 (Existing Facilities), 14 CCR § 15301**. The Study will consist of maintenance, permitting, and minor alternations to an existing water supply reservoir, Lake Henshaw, with no expansion of existing or former uses.

- **Class 3 section 15303 (New Small Facilities or Equipment), 14 CCR § 15303**. The Study will comprise installation of limited new pieces of equipment and structures that will have negligible or no impacts on the environment and that will require no changes to existing facilities.

- **Class 4 section 15304 (Minor Alterations to Land), 14 CCR § 15304**. The Study involves installation of facilities and equipment that will require only minor and temporary alternations to land, water, and vegetation that will have negligible or no impacts to the environment.

- **Class 6 section 15306 (Information Collection), 14 CCR § 15306**. The Study consists of basic data collection, research, experimental management, and resource evaluation activities that are intended to inform further agency decision-making and will not result in serious or major disturbance to environmental resources.

- **Class 7 section 15307 (Actions to Protect Natural Resources), 14 CCR § 15307**. The Study is intended to maintain, restore, and enhance Lake Henshaw by exploring methods to reduce harmful algal blooms in the lake that can threaten local species, water quality, and drinking and irrigation water supplies. The Study is further intended to avoid the use of more environmentally harmful algaecides.

- **Class 11 section 15311 (Accessory Structures), 14 CCR § 15311**. The Study involves placement of temporary minor structures that are accessory to the existing Lake Henshaw industrial and institutional facilities, and will have negligible or no impacts on the environment.

None of the exceptions listed in section 15300.2 of the CEQA Guidelines would apply to the proposed study.

_____ _____

Lesley Dobalian Date
Director of Water Resources

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 8

Board Meeting Date:	**April 15, 2026**
Prepared By:	**Christina Olson**
Reviewed By:	**Randy Whitmann**
Approved By:	**Brett Hodgkiss**

SUBJECT: REVENUE AGREEMENT

RECOMMENDATION: Authorize the General Manager to enter into a Revenue Agreement with the County of San Diego for the design of the South Santa Fe Avenue Realignment Project (LN 2023-025; DIV NO 5).

PRIOR BOARD ACTION: None.

FISCAL IMPACT: It has been determined that the County of San Diego (County) has prior rights over the project location; all costs associated with relocating the District's infrastructure will be borne by the District. This revenue agreement (reimbursement agreement) is for waterline relocation design services only with a not-to-exceed amount of $75,807. Future construction, anticipated to commence in spring 2027 and last several years, is estimated to cost an additional $1,175,000 and will be included in a bid contract with the County. The District's mainline replacement program for Fiscal Year 2027 will include $350,000 for anticipated project design and construction expenditures; the remaining amounts will budgeted in future fiscal years based on the actual cost of services and anticipated expenditures each subsequent fiscal year.

SUMMARY: The County's South Santa Fe Avenue Realignment Project involves a 900-foot stretch of road located between Robelini Drive and Loveeny Drive and centers around the intersection with Buena Creek Road. The project will flatten the existing road alignment by shifting the Buena Creek Road intersection to the southwest. The realignment causes the need to replace the existing 8-inch pipelines within the project footprint; a new 18-inch pipeline is proposed to accommodate regional conveyance needs and future mainline replacement projects.

The County is currently designing the project and is anticipating bidding and awarding a construction contract by spring 2027. Due to the extent of the road realignment and grade changes, the County is willing to include the District's facilities as part of the project (i.e., it is not possible to relocate the waterline beforehand and would be difficult to construct concurrently with District forces). The subject revenue agreement covers consulting fees for waterline relocation design plus County administration (10 percent). Once the project is bid and a contractor is selected, a separate construction reimbursement agreement will be brought to the Board for approval.

CALIFORNIA ENVIRONMENTAL QUALITY ACT: The County is the lead agency for this project under the California Environmental Quality Act.

ATTACHMENT: Map

LEGEND

EXISTING

——— (W) ——— WATER MAIN

ROAD ALIGNMENT

PROPOSED PUBLIC FACILITIES

——— W ——— PVC WATER MAIN (DR-14)

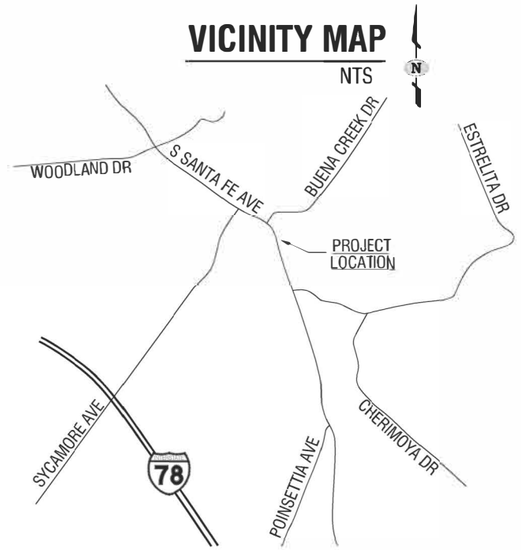
—×— (W) —×— EX. WATER MAIN TO BE ABANDONED OR REMOVED

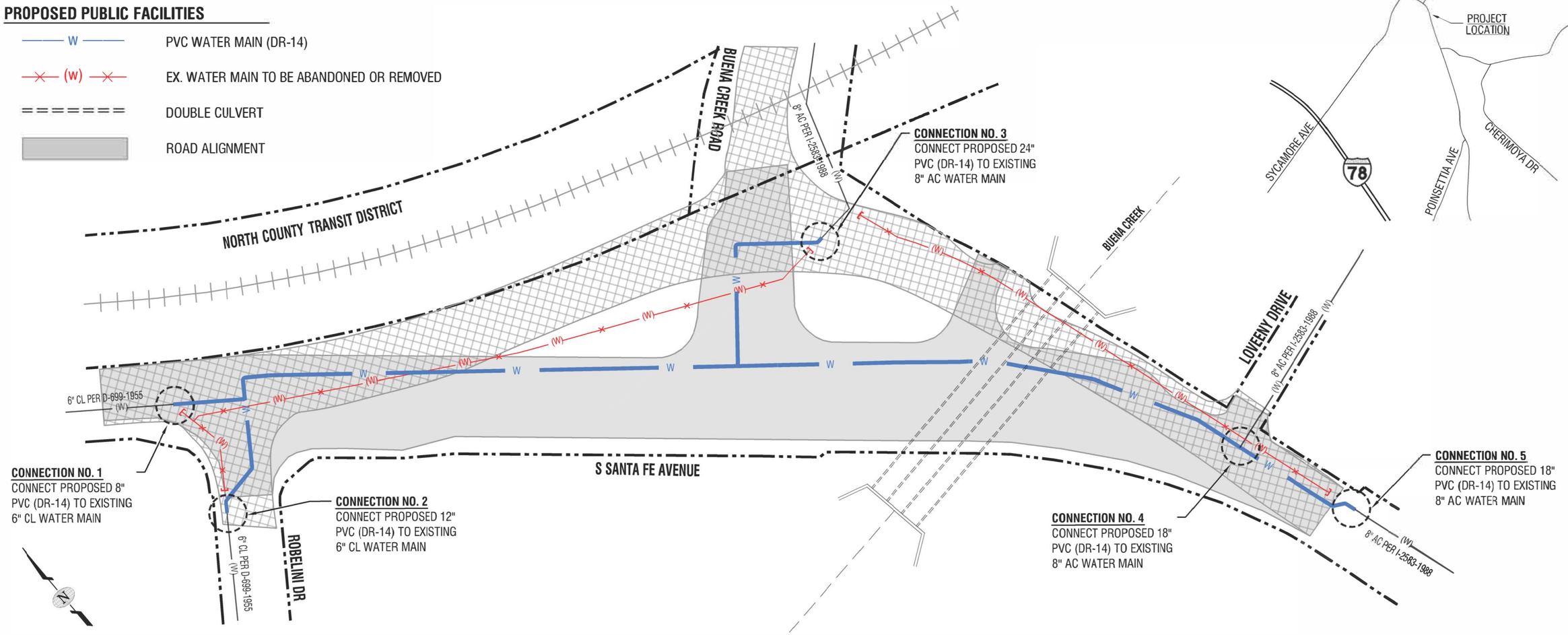
DOUBLE CULVERT

ROAD ALIGNMENT

VICINITY MAP

NTS





VISTA IRRIGATION DISTRICT		
REVENUE AGREEMENT S. SANTA FE AVE REALIGNMENT		
APN		T.B.
SCALE: NO SCALE		L.N. 2023-025
APPD. BY CO	DATE 4/2/26	W.O.
DRAWN BY JR	DATE 3/30/26	
SHEET 1 of 1	MAP I18 & I19	
REVISED 4/1/26 JOSE E. RODRIGUEZ		
I:\Eng Staff Reports(rs)\Future\Buena Creek Rd County Road Realignment.dwg		

VISTA IRRIGATION DISTRICT **PUBLIC AFFAIRS COMMITTEE REPORT**	**Agenda Item: 9** **Board Meeting Date:** **April 15, 2026** **Prepared By:** **Dirs. Kuchinsky & Nuñez**

SUBJECT: SCHOLARSHIP CONTEST

RECOMMENDATION: Approve the Public Affairs Committee's recommendation to award a $3,000 scholarship to Rahel Chiwai from Mission Vista High School, a $2,500 scholarship to Taylor Sheridan from Rancho Buena Vista High School, and $1,000 scholarships to Stephanie Aguilar from Mission Vista High School, Kawai Chau from Rancho Buena Vista High School, and Yahir Landeros from Vista High School.

PRIOR BOARD ACTION: At its May 12, 2025 meeting, the Board awarded $1,500 scholarships to Hailey Ahmed, Natalie Krahmer, Andrew Lee and Nathan Sleeper from Rancho Buena Vista High School, Nayleen Griffith from Vista High School, and Christopher Rayo from Mission Vista High School.

FISCAL IMPACT: $8,500; the Fiscal Year 2026 budget included $10,000 for the scholarship contest.

SUMMARY: Each year, the District invites high school seniors who live or go to school within its service area to compete for a scholarship. The purpose of the scholarship program is to increase student knowledge and awareness of water related issues affecting the District and its customers. Students who compete for a scholarship must complete an essay and provide a one-page personal statement related to their background and/or goals; selection criteria also include community involvement or volunteer service, and a letter of recommendation.

DETAILED REPORT: In December 2025, application packets, which included a brochure for the 2026 scholarship contest, were provided to counselors of high schools located within the District's jurisdictional boundaries. Follow-up calls and e-mails were made to the counselors to ensure receipt of application materials and inquire as to students' interest in the program; additional scholarship promotional efforts included issuing a news release and promoting the contest on the District's website and the San Diego County Water Authority's Water News Network webpage. Application materials were made available on the District's website. The District received five eligible applications (two from Rancho Buena Vista High School, one from Vista High School, and two from Mission Vista High School) from high school seniors by the February 20, 2026 deadline.

Committee members Kuchinsky and Nuñez were the judges for the contest. The Committee reviewed the applications and recommended awarding a $3,000 scholarship to Rahel Chiwai from Mission Vista High School, a $2,500 scholarship to Taylor Sheridan from Rancho Buena Vista High School, and $1,000 scholarships to Stephanie Aguilar from Mission Vista High School, Kawai Chau from Rancho Buena Vista High School, and Yahir Landeros from Vista High School.

If the Board approves the Committee's recommendation, a certificate in the amount of the scholarship award will be presented to each of the winners at the May 13, 2026 Board meeting. Once the student has enrolled at a university, District staff will forward a check in the awarded amount to each university on behalf of the student(s).

ATTACHMENTS:

- Scholarship Application Instructions/Requirements
- Scholarship Applications

VISTA IRRIGATION DISTRICT

2026 SCHOLARSHIP APPLICATION PACKAGE

SCHOLARSHIP APPLICATION INSTRUCTIONS

Vista Irrigation District (VID) invites local high school seniors that live within VID's service territory, to compete for scholarship(s) to college, university or vocational (trade) schools from VID. Up to six scholarships may be awarded; the minimum scholarship award amount is $1,000 and the maximum scholarship award amount is $3,000. Winners will be selected based on the quality and originality of an essay prepared by the applicant as well as school and community involvement. **Applications will not be accepted if all criteria below are not met, including correct formatting. Applicants must submit each of the following documents in PDF format by 4:00 PM on Friday February 20, 2026:**

1. Completed application form. **(15% of scoring)**
2. One letter of recommendation from a community member or high school faculty member (no family member recommendations will be accepted). **(10% of scoring)**
3. A personal statement (**two pages or less, Arial font, 12 point type, with 1 inch margins top, bottom, left and right, and line spacing set to 1½**). Topics to include the student's reasons for applying for the scholarship, post high school education plans, the student's educational/career goals, personal background or interests. **(35% of scoring)**
4. An essay **(40% of scoring) Two pages, Arial font, 12 point type, with 1 inch margins top, bottom, left and right, and line spacing set to 1½** addressing the following topic:

The Vista Irrigation District is fortunate to have its own local water supply, Lake Henshaw. Write an essay that addresses the challenges the District faces owning and managing Lake Henshaw as well as the benefits the lake provides District customers in the past, present, and future.

The essay will be judged on originality, creativity, grammar/spelling and your response to the essay topic above.

Students may obtain an application package from their High School Counselor or download it from the district's website (www.vidwater.org). For questions, please contact Brent Reyes at (760) 597-3107 or by email at scholarships@vidwater.org.

A completed application package must be received via e-mail at scholarships@vidwater.org or at Vista Irrigation District, 1391 Engineer Street, Vista, CA 92081-8840, **by 4:00 PM on Friday February 20, 2026.**

VID will review qualified applications and select winner(s) who will receive scholarships. Once enrolled at a college, university or vocational school, VID will send a check directly to the school on scholarship recipient's behalf.

2026 SCHOLARSHIP APPLICATION

(Competition is open to all high school seniors who live in VID's service area)

Name:_____ **Student Contact Number:**_____

Address, City, Zip:_____

Email Address: _____ **High School:**_____

Service and/or other extracurricular activities performed through school or volunteer organizations, community groups, church or clubs, etc. (Include contact name/telephone or email for verification where possible)

_____

_____

_____

_____

_____

_____

If employed, job title and total hours per week:_____

Job Responsibilities:_____

_____

_____

_____

Honors or special recognitions received (school or other)

_____

_____

_____

_____

_____

2026 VID SCHOLARSHIP SELECTION

Applicant Name	Essay *(Knowledge of issue)* 40%	Personal Statement 35%	Completed Application Form 15%	Letter of Recommendation 10%	Comments
Stephanie Aguilar					
Kawai Chau					
Rahel Chiwai					
Yahir Pineda					
Taylor Sheridan					

Please rate the scholarship applicants on the basis of these four (4) areas: Essay (knowledge of issue), Personal Statement, Completed Application Form, and Letter of Recommendation. Please give a rating from 1-10 (10 being high) in each of the four areas. Feel free to add any additional comments that you might have on the applicants.

PLEASE BRING THIS COMPLETED SHEET WITH YOU TO THE PUBLIC AFFAIRS COMMITTEE MEETING.

Scholarship applications were provided to the Board of Directors under separate cover.

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 10

Board Meeting Date: **April 15, 2026**
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.

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 11.A

Board Meeting Date: **April 15, 2026**
Prepared By: **Ramae Ogilvie**

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.

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 11.B

Board Meeting Date: April 15, 2026
Prepared By: Ramae Ogilvie
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 Water Utilities Committee Lunch Meeting** *April 21, 2026; 11:30 a.m. – 1:00 p.m.; The Butcher Shop Steakhouse* *Registration deadline: TBD*	
2	**ACWA 2026 Spring Conference** *May 5-7, 2026; Sacramento, CA* *Early Registration deadline: Closed; Cancellation deadline: Closed*	MacKenzie (R)(H) Sanchez (R)(H)(A)
3 *	**Vista Chamber Government Affairs** *May 7, 2026; 12:00 p.m. – 1:30 p.m.; The Film Hub, Vista* *Registration deadline: none*	
4	**Special District Leadership Academy – *Registration Open*** *May 11-14, 2026; Embassy Suites, San Diego, CA* *Registration deadline: 5/11/2026; Cancellation: closed*	
5 *	**CSDA Quarterly Dinner Meeting** *May 21, 2026; 5:45 p.m. – 9:00 p.m.; The Butcher Shop Steakhouse* *Registration deadline: TBD*	
6 *	**Vista Chamber Government Affairs** *June 4, 2026; 12:00 p.m. – 1:30 p.m.; The Film Hub, Vista* *Registration deadline: none*	
7 *	**Vista Chamber Government Affairs** *July 2, 2026; 12:00 p.m. – 1:30 p.m.; The Film Hub, Vista* *Registration deadline: none*	
8	**Special District Leadership Academy – *Registration Open*** *July 19-22, 2026; San Rafael, CA* *Early registration deadline: 6/19/26; Cancellation deadline: 6/19/26*	
9 *	**CSDA Quarterly Water Utilities Committee Lunch Meeting** *July 21, 2026; 11:30 a.m. – 1:00 p.m.; The Butcher Shop Steakhouse* *Registration deadline: TBD*	
10 *	**Vista Chamber Government Affairs** *August 6, 2026; 12:00 p.m. – 1:30 p.m.; The Film Hub, Vista* *Registration deadline: none*	
11	**Urban Water Institute 2026 Annual Conference** *August 19-21, 2026; Loews Coronado Bay Resort, San Diego, CA* *Registration deadline: TBD*	
12 *	**CSDA Quarterly Dinner Meeting** *August 20, 2026; 5:45 p.m. – 9:00 p.m.; The Butcher Shop Steakhouse* *Registration deadline: TBD*	
13	**CSDA 2026 Annual Conference – *Registration Open*** *August 24-27, 2026; J.W. Marriott Desert Springs, Palm Desert, CA* *Early registration deadline: 7/22/26; Cancellation deadline: 7/22/26*	MacKenzie (R)(H)

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
14	**Special District Leadership Academy – *Registration Open*** *September 13-16, 2026; San Luis Obispo, CA* *Early registration deadline: 8/14/26; Cancellation deadline: 8/14/26*	
15 *	**CSDA Quarterly Water Utilities Committee Lunch Meeting** *October 20, 2026; 11:30 a.m. – 1:00 p.m.; The Butcher Shop Steakhouse* *Registration deadline: TBD*	
16 *	**CSDA Quarterly Dinner Meeting** *November 19, 2026; 5:45 p.m. – 9:00 p.m.; The Butcher Shop Steakhouse* *Registration deadline: TBD*	
17	**ACWA 2026 Fall Conference** *December 1-3, 2026; Anaheim, CA* *Registration deadline: TBD*	
18	**Colorado River Water Users Association Conference** *December 9-11, 2026; Caesars Palace, Las Vegas, NV* *Registration deadline: TBD*	MacKenzie

** 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

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 12

Board Meeting Date: **April 15, 2026**
Prepared By: **Brett Hodgkiss**

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:

- Lake Henshaw/Warner Ranch Inspection Tour (April 16, 2026 at 8:00 AM)
- Fiscal Year 2027 Budget (June – after Fiscal Policy Committee review)
- 2025 Urban Water Management Plan (June)
- Artificial Intelligence Policy
- Automated Meter Reading/Advanced Meter Infrastructure
- Concession Management Agreement - Lake Henshaw Recreation Area operations
- Governance/Strategic Planning

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 13

Board Meeting Date: **April 15, 2026**
Prepared By: **Ramae Ogilvie**

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.

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 14

Board Meeting Date: **April 15, 2026**
Prepared By: **Brett Hodgkiss**

SUBJECT: COMMENTS BY GENERAL COUNSEL

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

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 15

Board Meeting Date: **April 15, 2026**
Prepared By: **Brett Hodgkiss**

SUBJECT: COMMENTS BY GENERAL MANAGER

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

VISTA IRRIGATION DISTRICT

STAFF REPORT

Agenda Item: 16

Board Meeting Date: **April 15, 2026**
Prepared By: **Brett Hodgkiss**

SUBJECT: CLOSED SESSION WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

SUMMARY: Significant exposure to litigation pursuant to Government Code section 54956.9(d)(2)
Number of Cases: 6