

**AGENDA  
IRVINE RANCH WATER DISTRICT  
BOARD OF DIRECTORS  
REGULAR MEETING**

January 27, 2025

**CALL TO ORDER** 5:00 p.m.

**PLEDGE OF ALLEGIANCE**

**ROLL CALL** Directors Ferons, LaMar, Swan, Withers, and President Reinhart

**PUBLIC COMMENT NOTICE**

This meeting will be held in-person at the District's headquarters located at 15600 Sand Canyon Avenue, Irvine, California. The meeting will also be broadcasted via Webex for those wanting to observe the meeting virtually.

To observe this meeting virtually, please join online using the link and information below:

Via Web: <https://irwd.webex.com/irwd/j.php?MTID=mdf87c047fc4c39e59773d21f3c94b4d6>

Meeting Number (Access Code): 2488 589 3785

Meeting Password: NRmQaTMK328

PLEASE NOTE: Webex observers of the meeting will be placed into the Webex lobby when the Board enters closed session. Participants who remain in the "lobby" will automatically be returned to the open session of the Board once the closed session has concluded. Observers joining the meeting while the Board is in closed session will receive a notice that the meeting has been locked. They will be able to observe the meeting once the closed session has concluded.

Public comments are limited to three minutes per speaker on each subject. If you wish to address the Board of Directors on any item, you may attend the meeting in person and submit a "speaker slip" to the Secretary. Forms are provided outside of IRWD's Board Room. If attending via Webex, please submit your request to speak, or your comment, via the "chat" feature and your remarks will be read into the record at the meeting. You may also submit a public comment in advance of the meeting by emailing [comments@irwd.com](mailto:comments@irwd.com) before 12:00 p.m. on Monday, January 27, 2025.

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**COMMUNICATIONS TO THE BOARD**

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1. Written:
2. Oral:
3. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Recommendation: Determine the need to discuss and /or take immediate action on item(s).

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**PRESENTATION**

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4. PROCLAMATION

A proclamation will be presented to Mr. Andrew Willis for his 35 years of service to the District.

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**CONSENT CALENDAR, Items 5 through 8**

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5. BOARD MEETING MINUTES

Recommendation: That the minutes of the December 16, 2024 Regular Board meeting and December 17, 2024 Adjourned Regular Board meeting be approved as presented.

6. MEMORANDUM ON OFFICERS OF THE BOARD, COMMITTEE APPOINTMENTS AND OTHER ASSIGNMENTS

Recommendation: That the Board receive and file the memorandum dated January 13, 2025, titled Officers of the Board, Committee Appointments and Other Assignments and approve attendance for meetings and events for the Board's representation for calendar year 2025 as delineated.

7. DECEMBER 2024 TREASURY REPORT

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Summary of Fixed and Variable Rate Debt, and the Disclosure Report of Reimbursements to Board members and staff, approve the December 2024 summary of payroll ACH payments in the total amount of \$2,648,045, and approve the December 2024 Accounts Payable Disbursement Summary of warrants 446552 through 447023, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the net total amount of \$26,347,779.

8. FISCAL YEAR 2024-25 GUIDING PRINCIPLES SCORECARD

Recommendation: Receive and file.

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## **ACTION CALENDAR**

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9. ORACLE EBS SOFTWARE VERSION UPGRADE

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Centroid Systems, LLC, in the amount of \$352,000 to upgrade IRWD's EBS software to version 12.2.14 to meet Oracle's new Error Correction Baseline requirement.

10. TECHNICAL SERVICES AGREEMENT WITH UNITED STATES GEOLOGICAL SURVEY FOR SEISMIC MONITORING

Recommendation: That the Board authorize the General Manager to execute a Technical Services Agreement with United States Geological Survey in the not-to-exceed amount of \$238,911 for a five-year term for the development, maintenance, and hosting of Irvine Ranch Water District's ShakeCast network.

11. SAN JOAQUIN WILDLIFE SANCTUARY ITEM

Recommendation: Authorize staff to submit a proposal to the SJWS for grant funding to perform activities consistent with the purpose of the SJWS, in an amount equal to the balance of its funds, less any funds necessary for legal and administrative expenses associated with winding down the SJWS; and authorize staff to terminate, at a time staff deems appropriate, the existing license between IRWD and the SJWS and execute a replacement license between IRWD and Sea & Sage Audubon, the terms of which will be similar to the terminated license.

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## **OTHER BUSINESS**

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Pursuant to Government Code Section 54954.2, members of the Board of Directors or staff may ask questions for clarification, make brief announcements, and make brief reports on his/her own activities. The Board or a Board member may provide a reference to staff or other resources for information, request staff to report back at a subsequent meeting concerning any matter, or direct staff to place a matter of business on a future agenda. Such matters may be brought up under the General Manager's Report or Directors' Comments. Pursuant to AB 1234 and Government Code Section 53232.3(d), a written draft report of the meetings that any Board member attended on behalf of IRWD since the last Board Meeting will be available at the table near the Board Room entrance, and will be amended verbally, if necessary, during Directors' Comments.

12. General Manager's Report


13. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and interests.

14. Directors' Comments and Meeting Reports

15. Adjournment

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Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the above-named Board in connection with a matter subject to discussion or consideration at an open meeting of the Board are available for public inspection in the District's office, 15600 Sand Canyon Avenue, Irvine, California ("District Office"). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available from the District Secretary of the District Office at the same time as they are distributed to Board Members, except that if such writings are distributed one hour prior to, or during, the meeting, they will be available electronically via the Webex meeting noted. Upon request, the District will provide for written agenda materials in appropriate alternative formats, and reasonable disability-related modification or accommodation to enable individuals with disabilities to participate in and provide comments at public meetings. Please submit a request, including your name, phone number and/or email address, and a description of the modification, accommodation, or alternative format requested at least two days before the meeting. Requests should be emailed to [comments@irwd.com](mailto:comments@irwd.com). Requests made by mail must be received at least two days before the meeting. Requests will be granted whenever possible and resolved in favor of accessibility.

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January 27, 2025  
Prepared and  
submitted by: K. Swan  
Approved by: Paul A. Cook 

CONSENT CALENDAR

BOARD MEETING MINUTES

SUMMARY:

Provided are the minutes of the December 16, 2024 Regular Board and the December 17, 2024 Adjourned Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE DECEMBER 16, 2024 REGULAR BOARD MEETING AND THE DECEMBER 17, 2024 ADJOURNED REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – December 16, 2024 Minutes  
Exhibit "B" – December 17, 2024 Minutes

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Exhibit "A"

MINUTES OF REGULAR MEETING – DECEMBER 16, 2024

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order by President Reinhart at 5:00 p.m. on December 16, 2024 at the District offices, 15600 Sand Canyon Avenue, Irvine.

Directors Present: Ferons, Withers, Swan, LaMar, and President Reinhart.

Directors Absent: None.

Oral and Written Communications: None.

Items too late to be agendized: None.

Also Present: General Manager Cook, Executive Director of Finance Adly, Executive Director of Technical Services Burton, Executive Director of Operations Chambers, Executive Director of Water Policy Weghorst, Director of Human Resources Mitcham, Director of Recycling Operations Zepeda, Director of Maintenance Operations Manning, Director of Water Resources Sanchez, Director of Information Technology Kaneshiro, Director of Accounting and Treasury Lin, Consultant Newell, General Counsel Collins, Secretary Swan, members of the staff, and public.

PRESENTATIONS – PROCLAMATION

A Proclamation was presented to Mr. Jeff Schreck for his twenty-eight years of service to the District by General Manager Cook with well wishes from the members of the Board.

CONSENT CALENDAR

Prior to voting, President Reinhart said that pertaining to Item No. 7 on the Consent Calendar of tonight's agenda, on November 25, 2024, the Board conducted its annual Performance Evaluation of the General Manager. Mr. Reinhart said that this evening the Board is considering changes to his compensation based on that performance review. He said that pursuant to Government Code Section 54953(c)(3), prior to taking final action on changes to the General Manager's compensation, he will provide a summary of the recommended action. He said that the recommendation is to: 1.) increase the base salary of the General Manager from \$386,636 to \$401,328 per year (a 3.8% increase), effective October 1, 2024; 2.) provide a one-time performance award for the General Manager in the amount of \$38,000 as a taxable lump sum cash payment; and 3.) continue the automobile allowance at the rate of \$11,000 per year, which is unchanged from last year. He said that all other aspects of the General Manager's compensation remain unchanged.

Under item No. 16, President Reinhart announced that staff requested to remove it from this evening's agenda.

On MOTION by Withers, seconded by LaMar, CONSENT CALENDAR ITEMS 5, 6, 8 THROUGH 15 and ITEM 17 WERE APPROVED 5-0, AND ITEM NO. 7 WAS APPROVED 4-1 WITH SWAN VOTING AGAINST AS FOLLOWS:

CONSENT CALENDAR (CONTINUED)

5. BOARD MEETING MINUTES

Recommendation: That the minutes of the November 25, 2024 Regular Board meeting be approved as presented.

6. 2024 GENERAL DISTRICT ELECTION RESULTS

Recommendation: That the Board adopt a resolution by title:

RESOLUTION NO. 2024-16

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT  
DECLARING RESULTS OF THE NOVEMBER 5, 2024 GENERAL DISTRICT ELECTION

7. CHANGES TO GENERAL MANAGER'S COMPENSATION

Recommendation: That the Board approve the 2024 amendment to the General Manager Employment Agreement, effective October 1, 2024.

8. 2024 LEGISLATIVE AND REGULATORY UPDATE

Recommendation: Receive and file.

9. VARIANCE TO IRWD GENERAL COUNSEL CONTRACT FOR FISCAL YEAR  
2024-25

Recommendation: That the Board authorize the General Manager to execute a variance to Professional Services Agreement with Hanson Bridgett LLP for general counsel legal services extending the term of the agreement through June 30, 2025, and increasing the not-to-exceed value by \$675,000.

10. NOVEMBER 2024 TREASURY REPORT

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Summary of Fixed and Variable Rate Debt, and the Disclosure Report of Reimbursements to Board members and staff, approve the November 2024 Summary of Payroll ACH payments in the total amount of \$4,097,496, and approve the November 2024 accounts payable disbursement summary of warrants 446021 through 446551, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the total amount of \$19,921,861.

11. CONFERENCE ROOM TECHNOLOGY REFRESH BUDGET INCREASE

Recommendation: That the Board authorize a budget increase for Project No. 12591 in the amount of \$195,000 to modernize the Audio-Visual technologies in the Operations Multi-Purpose Room, Aquarium, Maintenance, and Enterprise Asset Management conference rooms



CONSENT CALENDAR (CONTINUED)

12. WATER SUPPLY ASSESSMENT AND WATER SUPPLY VERIFICATION FOR THE DISCOVERY PARK PROJECT

Recommendation: That the Board approve the Water Supply Assessment and contingent upon approval of the Water Supply Assessment, approve the Water Supply Verification for the Discovery Park Project.

13. PLANNING AREA 51 HERITAGE FIELDS DISTRICT 5 AND 6 NORTH CAPITAL FACILITIES

Recommendation: That the Board approve Contract Change Order No. 2 in the deductive amount of \$557,335.46 with Heritage Fields, LLC for the Planning Area 51 Great Park Harrier and Chinon Capital Facilities, Projects 12228, 12229, 12230, 12231, and 12232, and authorize the General Manager to accept Heritage Fields' construction contract with L&S Construction, Inc. in the amount of \$1,428,039 for the Planning Area 51 Great Park Treble Capital Domestic Water, Sanitary Sewer, and Recycled Water Improvements, Projects 12404, 12405, and 12406.

14. SAN JOAQUIN RESERVOIR ASPHALT CONCRETE LINER INTERIM REPAIRS FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the San Joaquin Reservoir Asphalt Concrete Liner Interim Repairs, authorize the General manager to file a Notice of Completion, and authorize the payment of the retention 35 days after the date of recording the Notice of Completion for Project 11851.

15. HOWILER WATER TREATMENT PLANT INTERTIE BUDGET ADDITION AND CONSULTANT SELECTION

Recommendation: That the Board authorize the addition of the Howiler Water Treatment Plant Intertie, Project 13149, in the amount of \$4,515,000 to the Fiscal Year 2024-25 Capital Budget, and authorize the General Manager to execute a Professional Services Agreement with West Yost in the amount of \$686,141 for the engineering design services.

17. PASS-THRU INDEMNIFICATION AGREEMENT REGARDING WATER BANK DELIVERIES

Recommendation: That the Board authorize the General Manager to execute the Letter Agreement for "Met Deliveries to Kern County Water Agency" with Rosedale Rio-Bravo Water Storage District and similar future pass-thru indemnification agreements required by Rosedale to facilitate water deliveries to and from the Irvine Ranch Water District water bank, subject to special legal counsel review.

## ACTION CALENDAR

### 18. SANTIAGO CANYON PUMP STATION IMPROVEMENTS CONTRACT CHANGE ORDER

Executive Director of Technical Services Burton reported that the Santiago Canyon Pump Station Improvements project will construct improvements at four pump stations and on a reservoir in the Santiago Canyon area. Following an overview of the project, on MOTION by Swan, seconded by LaMar, and unanimously carried, THE BOARD APPROVED CONTRACT CHANGE ORDER NO. 7 IN THE CREDIT AMOUNT OF \$901,458.98 FOR THE DELETION OF THE REMAINING MANNING PUMP STATION SCOPE FROM THE SANTIAGO CANYON PUMP STATION IMPROVEMENTS, PROJECT 01398.

### 19. SANTIAGO CREEK DAM IMPROVEMENTS PROJECT UPDATE, CONSULTANT, VARIANCE, AND BUDGET INCREASE

Using a PowerPoint Presentation, Engineering Manager Moeder outlined the Santiago Creek Dam Improvements and provided a project update. Subsequent to discussion, on MOTION by Swan, seconded by Withers, and unanimously carried, THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 8 IN THE AMOUNT OF \$5,293,817 WITH AECOM FOR ADDITIONAL ENGINEERING DESIGN SERVICES; AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 1 IN THE AMOUNT OF \$394,940 WITH HDR FOR ADDITIONAL RISK ANALYSIS SERVICES, AND AUTHORIZED A BUDGET INCREASE IN THE AMOUNT OF \$130,000,000, FROM \$340,000,000 TO \$470,000,000 FOR THE SANTIAGO CREEK DAM IMPROVEMENTS, PROJECT 01813.

### 20. ANNUAL BOARD OF DIRECTORS' FEES

General Manager Cook reported that the Finance and Personnel Committee annually reviews the Board of Directors' compensation and recommends to either accept or decline an increase in the amount of day-of-service fees for the new calendar year. This year the committee did not adopt a position on the matter, and instead left it open to the Board for discussion.

Director Swan reported that during the committee meeting, neither he nor Director LaMar had a strong position to accept or decline the increase. After discussion with the Board, on MOTION by Swan seconded by LaMar, and unanimously carried, THE BOARD DEFERRED THE FIVE (5%) PERCENT COMPENSATION INCREASE FOR CALENDAR YEAR 2025.

### 21. ELECTION OF OFFICERS FOR 2025

General Manager Cook reported that the Bylaws of the District provide that the President and Vice President shall be elected by the Board from among its members with the term of office for one year, or until the election and qualification of their successors. Mr. Cook, acting as temporary, Chairman conducted the election for President. Director Withers nominated Director Reinhart as President with a second from Director LaMar, and Director Withers nominated Director LaMar as Vice President with a second from Director Ferons. As no other nominations were made, Director Withers asked that the election be made by acclamation and DIRECTOR REINHART WAS UNANIMOUSLY ELECTED PRESIDENT AND DIRECTOR LAMAR WAS UNANIMOUSLY ELECTED VICE PRESIDENT.

## OTHER BUSINESS

### 22. General Manager's Report

Mr. Cook stated that there are a few items being addressed to finalize the Serrano Water District Agreement regarding Irvine Lake and the Howiler Treatment Plant. He added that there were a couple of new faces joining the District and asked Executive Director of Technical Services Burton to introduce Construction Inspection Assistant Manager Teo Pasillas, and Director of Information Technology Kaneshiro to introduce Enterprise GIS Manager Cameron Smith.

### 23. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and interests.

Mr. Newell reported that while he had no water events to report on, and that all was well in the canyons.

### 24. Directors' Comments and Meeting Reports

Director Ferons had no meetings to report but relayed that he was honored to be elected and serve on Board.

Director Withers reported on his attendance at the ACWA Fall Conference in Palm Desert; the ISDOC Executive Committee meeting; the Santiago Aqueduct Commission Meeting; and the WACO Monthly meeting.

Director Swan reported on his attendance at the ACWA JPIA and ACWA Fall Conference in Palm Desert; the Colorado River Water Users Association Conference in Las Vegas; the Groundwater Banking JPA Board meeting; the MWDOC Administration and Finance Committee meeting; the WACO Monthly meeting. In addition, he reported on his attendance at the San Joaquin Wildlife Sanctuary Board meeting, the plein air painters event at the San Joaquin Marsh, and the CASA Federal Legislative meeting.

Director LaMar reported on his attendance at the South Orange County Agencies' Group meeting; the ACWA Fall Conference in Palm Desert; the CCEEB Water Quality Task Force meeting at Cal Tech; the Natural Communities Coalition Board meeting; and the WACO Monthly meeting.

President Reinhart reported on his attendance at the South Orange County Agencies' Group meeting; the MWDOC Planning and Operations Committee meeting; the Colorado River Water Users Association Conference in Las Vegas; the Groundwater Banking JPA Board meeting; the MWDOC Administration and Finance Committee meeting; the OCWD Water Issues Committee meeting; the OCWD Administration & Finance Issues Committee meeting; the Santa Margarita Water District's Board meeting to present a proclamation to Director Gibson upon his retirement; and the WACO Monthly meeting.

### 25. ADJOURNMENT

At 6:00 p.m., President Reinhart adjourned the Board meeting to Tuesday, December 17 at 9:00 a.m. to hold a Strategic Planning Workshop in the Sand Canyon Room on the first floor at 15600 Sand Canyon Avenue, Irvine.

OTHER BUSINESS (CONTINUED)

APPROVED and SIGNED this 27<sup>th</sup> day of January 2025.

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President, IRVINE RANCH WATER DISTRICT

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District Secretary,  
IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

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Claire Hervey Collins, General Counsel  
Hanson Bridgett LLP

Exhibit "B"

MINUTES OF ADJOURNED REGULAR MEETING – December 17, 2024

The adjourned regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order by President Reinhart at 9:00 a.m. on December 17, 2024 in the Board / Sand Canyon room at 15600 Sand Canyon Avenue, Irvine.

Directors Present: Withers, Swan, Ferons, LaMar, and Reinhart.

Directors Absent: None.

Also Present: General Manager Cook, Executive Director of Technical Services Burton, Executive Director of Water Policy Weghorst, Executive Director of Finance and Administration Adly, Director of Human Resources Mitcham, Director of Accounting & Treasury Lin, Director of Safety Choi, Director of Water Quality Colston, Executive Director of Operations Chambers, Director of Recycling Operations Zepeda, Director of Information Technology Kaneshiro, Director of Water Resources Sanchez, Director of Maintenance Manning, Director of Strategic Communications and Advocacy / Deputy General Counsel Compton, Secretary Swan, Consultant Newell, and General Counsel Collins.

WRITTEN AND ORAL COMMUNICATIONS: None.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED: None.

DRAFT IRWD 2025 GOALS AND TARGET ACTIVITIES

General Manager Cook noted the mission, vision, guiding principles, and the strategic objectives are in the package and inquired of the Board if there were any changes or suggestions. Director LaMar provided his suggestions for Customer Satisfaction, Employee Satisfaction/Development, and Environmental Commitment. Mr. Cook and staff then reviewed the draft 2025 IRWD Goals and Target Activities list. Input from the Board was provided to staff on several of the items.

ADJOURNMENT

There being no further comments, President Reinhart adjourned the meeting.

APPROVED and SIGNED this 27th day of January 2025.


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President, IRVINE RANCH WATER DISTRICT

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Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

\_\_\_\_\_  
Claire Hervey Collins, General Counsel  
Hanson Bridgett LLP

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January 27, 2025  
Prepared and  
submitted by: C. Compton  
Approved by: Paul A. Cook 

CONSENT CALENDAR

MEMORANDUM ON OFFICERS OF THE BOARD,  
COMMITTEE APPOINTMENTS AND OTHER ASSIGNMENTS

SUMMARY:

Each year, the President of the Board of Directors provides the Board with a memorandum on the upcoming year's officers of the Board, Committee appointments and other assignments. As a result of changes implemented by President Reinhart, the following actions are necessary:

- Receive and file the January 13, 2025, Memorandum on Officers of the Board, Committee Appointments and Other Assignments (Memorandum), and
- Approve attendance at meetings and events by Directors for the 2025 calendar year.

BACKGROUND:

IRWD Board members serve on various standing committees and ad hoc committees (when such a committee is created by the Board President); they also serve the District in other assignments. President Reinhart has reviewed and updated the Committee appointments and other District assignments for 2025; the updated Memorandum is provided as Exhibit "A". The changes from appointments and assignments memorandum for 2025 are highlighted in red text.

Approval of Attendance at Meetings and Events:

Pursuant to Resolution 2014-38, adopted on August 25, 2014, approval / ratification of attendance at events and meetings for non-IRWD Board or Committee meetings is required by the Board of Directors for certain meetings and events. For those meetings and events falling under Section 2(b) of Article II of Exhibit "A" to the Resolution, approval is requested to authorize attendance of the Board Members assigned as the District's representative / lead, and their alternates, as listed in the Memorandum, at meetings and events of governmental agencies and external organizations during the 2025 calendar year. Also provided in Exhibit "A" is a list of the approved organizations.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

Consent Calendar: Memorandum on Officers of the Board, Committee Appointments and Other Assignments  
January 27, 2025  
Page 2

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:


THAT THE BOARD RECEIVE AND FILE THE MEMORANDUM DATED JANUARY 13, 2025, TITLED OFFICERS OF THE BOARD, COMMITTEE APPOINTMENTS AND OTHER ASSIGNMENTS AND APPROVE ATTENDANCE FOR MEETINGS AND EVENTS FOR THE BOARD'S REPRESENTATION FOR CALENDAR YEAR 2025 AS DELINEATED.

LIST OF EXHIBITS:

Exhibit "A" – Memorandum from President Reinhart dated January 13, 2025, titled Officers of the Board, Committee Appointments and Other Assignments



**MEMORANDUM**

DATE: January 13, 2025  
TO: IRWD Board of Directors  
FROM: Doug Reinhart, President   
SUBJECT: MEMORANDUM RELATIVE TO OFFICERS OF THE BOARD, COMMITTEE APPOINTMENTS, AND OTHER ASSIGNMENTS

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District Board of Directors:

- President Doug Reinhart
- Vice President Steve LaMar
- Directors Dan Ferons, Peer Swan, John Withers

Officers of the District, Staff:

- District Treasurer Neveen Adly
- Assistant District Treasurers Eileen Lin, Jennifer Davis
- District Secretary Kristine Swan
- Assistant District Secretary Christine Compton

Standing Committees Appointments:

*Committee chair name shown first:*

- Engineering and Operations Ferons, Withers (Alt. Reinhart)
- Finance and Personnel Swan, LaMar (Alt. Reinhart)
- Supply Reliability Programs Reinhart, Swan (Alt. LaMar)
- Water Resources Policy & Communications LaMar, Ferons (Alt. Withers)
- Serrano Water District / IRWD Withers, Reinhart (Alt. Swan)

Governmental Agencies Representation and Assignments:

- Canyons Communities Withers (Representative), LaMar (Alternate)
- City of Costa Mesa Swan (District Lead), Ferons (Alternate)
- City of Irvine Ferons (District Lead), LaMar (Alternate)
- City of Lake Forest Withers (District Lead), Reinhart (Alternate)
- Municipal Water District of Orange County Swan (District Lead), Reinhart (Alternate)
- Natural Communities Coalition\*\* LaMar (Director), Ferons (Alternate)
- City of Newport Beach Swan (District Lead), Reinhart (Alternate)
- Newport Bay Watershed Executive Cte.\*\* Swan (Rep), Ferons and Swift (Alternates)
- City of Orange / OPA Withers (District Lead), LaMar (Alternate)
- Orange County Sanitation District (OCSD)\*\* Withers (Director), Ferons (Alternate)
- Orange County Water District (OCWD) Reinhart (District Lead), Ferons (Alternate)
- Santiago Aqueduct Commission (SAC)\*\* Withers (Director), Ferons (Alternate)
- City of Tustin LaMar (District Lead), Ferons (Alternate)

\*\* Need to notify these agencies of any changes

IRWD-Associated Organizations Officers:

- Bardeen Partners, Inc. Withers, President; Swan, Vice President  
LaMar, **Ferons**, and Reinhart as Members  
Cook, General Manager  
**Adly**, Treasurer  
**K. Swan**, Secretary
- IRWD Water Service Corporation Reinhart, President; Withers, Vice President  
LaMar, **Ferons**, and Swan as Members  
**Adly**, Treasurer  
**K. Swan**, Secretary
- Pension 115 Trust and Other Post Retirement Benefits (OPEB) 115 Trust Swan, Chairman; LaMar, Vice Chair  
Cook, Member (Alt. Withers)  
**Adly**, Treasurer  
**K. Swan**, Secretary
- San Joaquin Wildlife Sanctuary, Inc. Swan, President  
**Ferons**, Director

External Organizations Assignments:


- Association of CA Water Agencies (ACWA) All Board Members
- ~~ACWA/Joint Powers Insurance Authority~~ ~~Swan (District Lead), LaMar (Alternate)~~
- CA Association of San. Agencies (CASA) All Board Members
- CA Council for Environmental and Economic Balance (CCEEB) LaMar (District Lead);  
**Ferons** and Compton (Alternates)
- Ctr. for Western Weather & Water Extremes (CW3E) Water Affiliates Group LaMar (District Lead), Bronstein (Alternate)
- County of Orange Area Safety Task Force LaMar (District Lead); Bronstein (Alternate)
- El Toro Restoration Advisory Board **Ferons** (District Lead), Colston (Alt.)
- Independent Special Districts of OC (ISDOC) All Board Members
- ISDOC Executive Committee Withers (District Lead), Reinhart (Alt.)
- IRWD-Supported Chambers All Board Members
- Groundwater Banking Authority JPA Same as members of IRWD SRP Committee
- National Water Resources Assoc. (NWRA) LaMar (District Lead)
- National Water Research Institute (NWRI) Withers (District Lead), Reinhart (Alternate)
- Orange County Business Council (OCBC) LaMar (District Lead),  
Withers (Infrastructure Committee)  
Compton (Govt. Affairs & Advocacy)
- Orange County Forum All Board Members
- Orange County Water Association All Board Members
- Public Policy Institute of California Swan (District Lead), LaMar (Alternate)
- South Orange County Economic Coalition **Ferons** (District Lead), Compton (Alt.)
- South Orange County Agencies Group Reinhart (District Lead)  
LaMar **or Ferons** (Alternate)
- Southern California Water Dialogue Group Swan (District Lead), LaMar (Alternate)
- Southern California Water Coalition Board LaMar (District Lead), **Ferons** (Alternate)
- Southern California Water Coalition Meetings All Board Members

- Urban Water Institute All Board Members
- Water Advisory Committee of OC (WACO) All Board Members
- Water Education Foundation All Board Members
- WaterReuse All Board Members

Organization / Committee Staff Representation and Support:

- Association of CA Water Agencies (ACWA) Compton, Collins
- Bioenergy Association of CA Compton (District Lead)
- California Assoc. of Sanitation Agencies Chambers, Zepeda, Colston, Compton
- California Municipal Utilities Assoc. (CMUA) Cook (Exc. Cte., Board Member), Compton
- California Special Districts Assoc. (CSDA) Compton
- California Water Environmental Assoc. Chambers, Zepeda
- National Water Research Institute (NWRI) Colston
- Newport Bay Watershed Mgmt. Comm. Swift (Representative), Chambers (Alternate)
- Santiago Aqueduct Commission (SAC) Cook (General Manager), Burton (Engineer)  
Adly (Treasurer)
- South Orange County Watershed Mgmt. Area Executive Committee Palacio (Representative), Weghorst (Alt.)
- WaterReuse California Cook (Board member), Compton

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January 27, 2024  
Prepared by: J. Davis  
Submitted by: N. Adly  
Approved by: Paul A. Cook 

## CONSENT CALENDAR

### DECEMBER 2024 TREASURY REPORT

#### SUMMARY:

The following is submitted for the Board's information and approval:

- A. The December 2024 Investment Summary Report. This Investment Summary Report conforms with the 2024 Investment Policy as outlined in Exhibit "A";
- B. The Summary of Fixed and Variable Rate Debt as of December 31, 2024, as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of December 31, 2024, as outlined in Exhibit "C";
- D. The December 31, 2024, Disbursement Summary of warrants 446552 through 447023, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the net total amount of \$26,347,779 as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$2,648,045 as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board members and staff for December 2024, detailing payments or reimbursements for individual charges of \$100 or more per transaction as outlined in Exhibit "F".

#### FISCAL IMPACTS:

As of December 31, 2024, the book value of the investment portfolio was \$389,268,715, with a 4.44% rate of return and a market value of \$389,212,414. Based on IRWD's December 31, 2024, quarterly real estate annualized investment rate of return of 14.11%, the weighted average return for the fixed income and real estate investments was 6.53%.

As of December 31, 2024, the outstanding principal amount of fixed and variable rate debt was \$575,395,000. The monthly weighted average all-in variable rate was 2.94%. Including IRWD's weighted average fixed rate bond issues of 3.73% and the negative cash accruals from fixed payer interest rate swaps, which hedge a portion of the District's variable rate debt, the total average debt rate was 3.57%.

Payroll ACH payments totaled \$2,648,045. Wire transfers, other ACH payments, and checks issued for debt service, accounts payable, payroll, water purchases, and voided checks for December was \$26,347,779.

ENVIRONMENTAL COMPLIANCE:

This item is not a project as defined in the California Environmental Quality Act Code of Regulations, Title 14, Chapter 3, Section 15378.

COMMITTEE STATUS:

All items in this report were not submitted to a Committee; the investment and debt reports are submitted to the Finance and Personnel Committee monthly.

RECOMMENDATION:

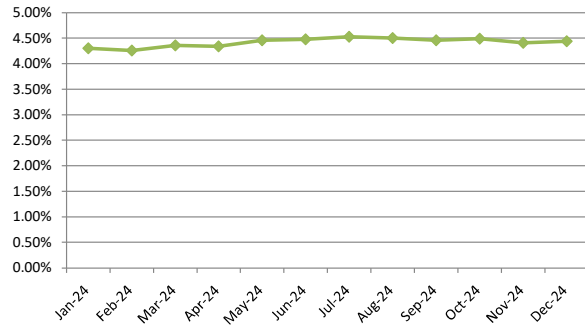
THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE SUMMARY OF FIXED AND VARIABLE RATE DEBT, AND THE DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF, APPROVE THE DECEMBER 2024 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,648,045, AND APPROVE THE DECEMBER 2024 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 446552 THROUGH 447023, WORKERS' COMPENSATION DISTRIBUTIONS, ACH PAYMENTS, VIRTUAL CARD PAYMENTS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS, AND VOIDED CHECKS IN THE NET TOTAL AMOUNT OF \$26,347,779.

LIST OF EXHIBITS:

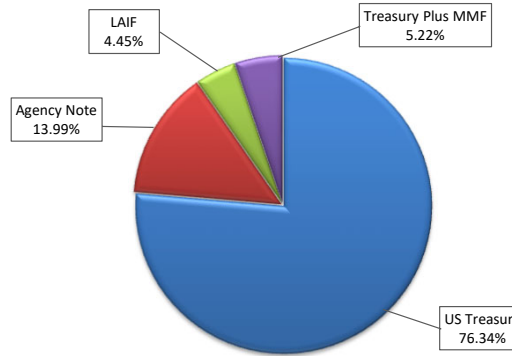
- Exhibit "A" – Investment Summary Report
- Exhibit "B" – Summary of Fixed and Variable Debt
- Exhibit "C" – Monthly Interest Rate Swap Summary
- Exhibit "D" – Monthly Summary of District Disbursements
- Exhibit "E" – Monthly Payroll ACH Summary
- Exhibit "F" – Disclosure of Reimbursements to Board Members and Staff

Exhibit "A"  
**Irvine Ranch Water District  
Investment Portfolio Summary  
December 2024**

**Monthly Fixed Income Yield**



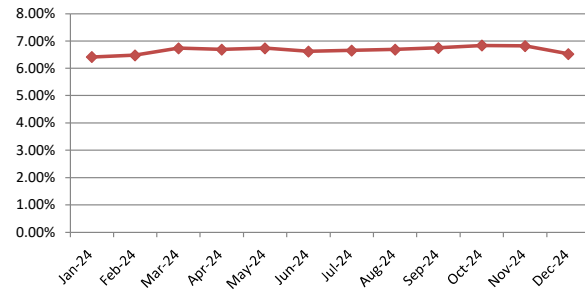
**Portfolio Distribution**



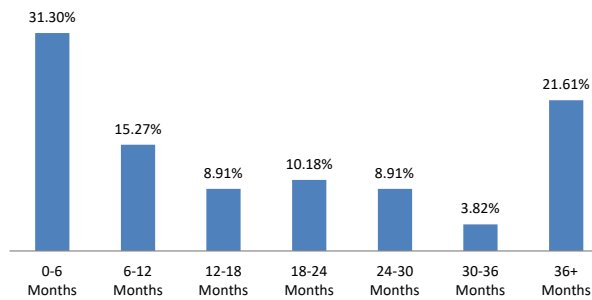
**Investment Summary**

Type	PAR	Book Value	Market Value
US Treasury	300,000,000	296,590,377	296,552,110
Agency Note	55,000,000	54,674,069	54,662,650
Treasury Plus MMF	20,504,269	20,504,269	20,504,269
LAIF	17,500,000	17,500,000	17,493,385
<b>Grand Total</b>	<b>393,004,269</b>	<b>389,268,715</b>	<b>389,212,414</b>

**Weighted Average Return Including Real Estate Portfolio**



**Maturity Distribution**



**Top Issuers**

Issuer	PAR	% Portfolio
US Treasury	300,000,000	76.34%
Fed Farm Credit Bank	30,000,000	7.63%
Wells Fargo / Allspring	20,504,269	5.22%
State of California Tsy.	17,500,000	4.45%
Fed Home Loan Mortgage Corp	15,000,000	3.82%
Fed Home Loan Bank	10,000,000	2.54%
<b>Grand Total</b>	<b>393,004,269</b>	<b>100.00%</b>





IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

12/31/24

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE <sup>(1)</sup> 12/31/2024	UNREALIZED <sup>(2)</sup> GAIN/(LOSS)
					Petty Cash					600.00			
					Ck Balance	Bank of America		ECR	1.42%	12,966,459.49			
					Ck Balance	Wells Fargo		ECR	2.00%	0.00 <sup>(5)</sup>			
										<u>\$398,622,532.05</u>			

<sup>(1)</sup> LAIF market value is as of the most recent quarter-end as reported by LAIF. Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.

<sup>(2)</sup> Gain (loss) calculated against carry value using the trading value provided by Bank of New York/or Brokers

<sup>(3)</sup> Real estate rate of return is based on most recent quarter end return.

<sup>(4)</sup> Original Cost updated to reflect capital tenant improvements added for Fiscal Year 2023. of capital tenant improvements during FY 2023.

<sup>(5)</sup> Cash balance in this account are funds that are pending purchase into the current money market fund.

\*S - Step up

This Investment Summary Report is in conformity with the 2024 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.

Outstanding Variable Rate Debt	\$202,300,000
Net Outstanding Variable Rate Debt (Less \$60 million fixed-payer swaps)	\$142,300,000
Investment Balance:	\$398,622,532
Investment to Variable Rate Debt Ratio:	280%
Portfolio - Average Number of Days To Maturity	538

	Investment Portfolio	Real Estate <sup>(3)(4)</sup> Portfolio	Weighted Avg. Return
<b>December</b>	4.44%	14.11%	6.53%
<b>November</b>	4.41%	15.08%	6.82%
<b>Change</b>	0.03%	-0.97%	-0.29%

IRVINE RANCH WATER DISTRICT  
SUMMARY OF MATURITIES

12/31/24

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Municipal Bonds	US Treasury	Investment Sweep
12/24	38,004,269	9.67%	\$17,500,000					20,504,269
1/25	20,000,000	5.09%					20,000,000	
2/25	10,000,000	2.54%		5,000,000			5,000,000	
3/25	30,000,000	7.63%		5,000,000			25,000,000	
4/25	15,000,000	3.82%		5,000,000			10,000,000	
5/25	10,000,000	2.54%		5,000,000			5,000,000	
6/25	10,000,000	2.54%		10,000,000				
7/25	20,000,000	5.09%		10,000,000			10,000,000	
8/25	5,000,000	1.27%					5,000,000	
9/25	10,000,000	2.54%		10,000,000				
10/25	5,000,000	1.27%					5,000,000	
11/25	10,000,000	2.54%					10,000,000	
<b>SUB-TOTAL</b>	<b>\$183,004,269</b>	<b>46.57%</b>	<b>\$17,500,000</b>	<b>\$50,000,000</b>			<b>\$95,000,000</b>	<b>\$20,504,269</b>

13 MONTHS - 3+ YEARS								
12/01/2025 - 02/28/2026	\$30,000,000	7.63%		5,000,000			25,000,000	
03/01/2026 - 05/31/2026	\$5,000,000	1.27%					5,000,000	
06/01/2026 - 08/31/2026	\$20,000,000	5.09%					20,000,000	
09/01/2026 - 11/30/2026	\$20,000,000	5.09%					20,000,000	
12/01/2026 - 02/28/2027	\$30,000,000	7.63%					30,000,000	
03/01/2027 - 05/31/2027	\$5,000,000	1.27%					5,000,000	
06/01/2027 - 08/31/2027	\$5,000,000	1.27%					5,000,000	
09/01/2027 - 11/30/2027	\$10,000,000	2.54%					10,000,000	
12/01/2027 - 02/28/2028	\$20,000,000	5.09%					20,000,000	
03/01/2028 - 05/31/2028	\$5,000,000	1.27%					5,000,000	
06/01/2028 - 08/31/2028	\$15,000,000	3.82%					15,000,000	
9/01/2028 +	\$45,000,000	11.45%					45,000,000	
<b>SUB-TOTAL</b>	<b>\$210,000,000</b>	<b>53.43%</b>		<b>\$5,000,000</b>			<b>\$205,000,000</b>	
<b>TOTALS</b>	<b>\$393,004,269</b>	<b>100.00%</b>	<b>\$17,500,000</b>	<b>\$55,000,000</b>			<b>\$300,000,000</b>	<b>\$20,504,269</b>

% OF PORTFOLIO 4.45% 13.99% 76.34% 5.22%

Irvine Ranch Water District  
Summary of Real Estate - Income Producing Investments  
12/31/2024

	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST	ORIGINAL COST	MARKET VALUE 12/31/2024	ANNUALIZED RATE OF RETURN QUARTER ENDED 12/31/2024
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 45,457,369	\$ 220,000,000	22.42%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	\$ 38,420,894	8.61%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,568,747	\$ 10,000,000	9.53%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,983,395	\$ 13,500,000	7.10%
Sand Canyon Professional Center - Medical Office	Jul-12	Medical Office	Fee Simple	\$ 8,715,929	\$ 12,000,000	7.84%
Sand Canyon Professional Center - General Office <sup>(1)</sup>	Sep-20	Office Building	Fee Simple	\$ 31,404,103	\$ 32,000,000	7.69%
<b>Total - Income Properties</b>				<b>\$ 106,129,543</b>	<b>\$ 325,920,894</b>	<b>14.11%</b>

(1) Original Cost updated to reflect capital tenant improvements added for Fiscal Year 2023.

**IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT**  
**INVESTMENT ACTIVITY<sup>(1)</sup>**  
**Dec-24**

**MATURITIES/SALES/CALLS**

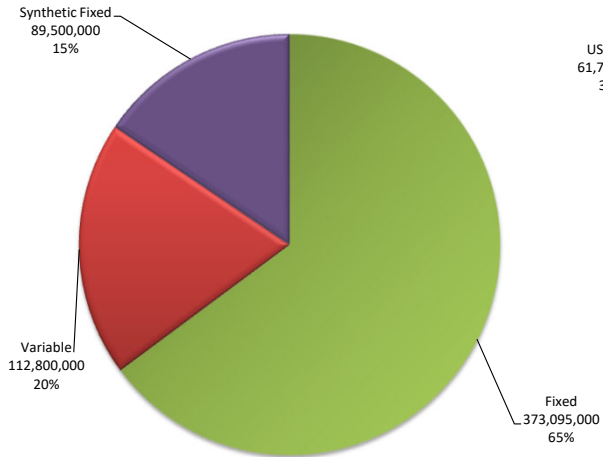
**PURCHASES**

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
12/31/2024	Treasury - Note	\$5,000,000	4.47%	12/13/2024	12/31/2028	Treasury - Note	\$10,000,000	4.16%
12/31/2024	Treasury - Note	\$5,000,000	4.48%	12/19/2024	2/15/2028	Treasury - Note	\$10,000,000	4.23%
				12/19/2024	2/28/2027	Treasury - Note	\$10,000,000	4.30%

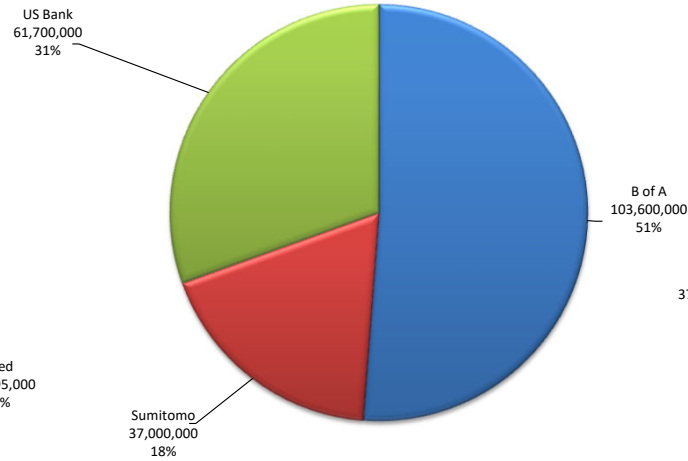
(1) Italicized entries indicate securities that are scheduled but not yet matured, sold, called, or purchased. There may be additional investment purchases if there are pending maturities for the month.

Exhibit "B"  
**Irvine Ranch Water District**  
**Summary of Fixed and Variable Rate Debt**  
**December 2024**

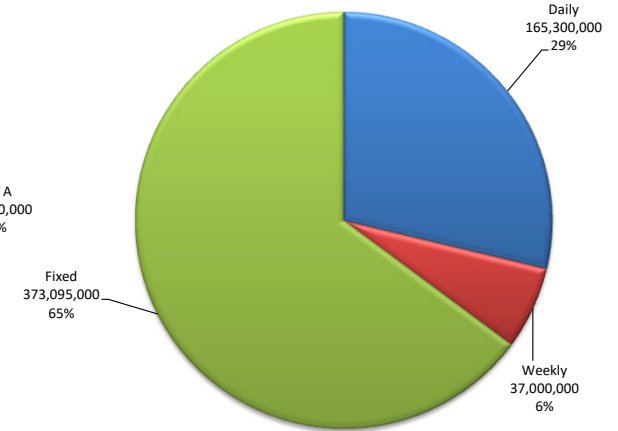
**Current Debt Mix By Type**



**Letters of Credit / Support**



**Current Debt Rate Reset**



**Outstanding Par by Series**

Series	Issue Date	Maturity Date	Remaining Principal	Percent	Letter of Credit/Support	Rmkt Agent	Mode	Reset
Series 1993	05/19/93	04/01/33	\$19,200,000	3.34%	US Bank	BAML	Variable	Daily
Series 2008-A Refunding	04/24/08	07/01/35	\$37,000,000	6.43%	Sumitomo	BAML	Variable	Weekly
Series 2011-A-1 Refunding	04/15/11	10/01/37	\$36,660,000	6.37%	B of A	Goldman	Variable	Daily
Series 2011-A-2 Refunding	04/15/11	10/01/37	\$24,440,000	4.25%	B of A	Goldman	Variable	Daily
Series 2009 - A	06/04/09	10/01/41	\$42,500,000	7.39%	US Bank	US Bank	Variable	Daily
Series 2009 - B	06/04/09	10/01/41	\$42,500,000	7.39%	B of A	Goldman	Variable	Daily
2016 COPS	09/01/16	03/01/46	\$101,490,000	17.64%	N/A	N/A	Fixed	Fixed
2010 Build America Taxable Bond	12/16/10	05/01/40	\$175,000,000	30.41%	N/A	N/A	Fixed	Fixed
Series 2016	10/12/16	02/01/46	\$96,605,000	16.79%	N/A	N/A	Fixed	Fixed
<b>Total</b>			<b>\$575,395,000</b>	<b>100.00%</b>				

**IRVINE RANCH WATER DISTRICT  
SUMMARY OF FIXED & VARIABLE RATE DEBT**

December-24

Daily
Weekly

GENERAL BOND INFORMATION							LETTER OF CREDIT INFORMATION							TRUSTEE INFORMATION									
VARIABLE RATE ISSUES	Issue Date	Maturity Date	Principal Payment Date	Payment Date	Original Par Amount	Remaining Principal	Letter of Credit	Reimbursement Agreement Date	L/C Exp. Date	MOODYS	S&P	FITCH	LOC Stated Amount	LOC Fee	Annual LOC Cost	Rmkt Agent	Reset	Rmkt Fees	Annual Cost	Trustee			
SERIES 1993	05/19/93	04/01/33	Apr 1	5th Bus. Day	\$38,300,000	\$19,200,000	US BANK	05/07/15	05/01/25	Aa3/VMIG1	AA-/A-1+	N/R	\$19,458,805	0.3000%	\$58,376	BAML	DAILY	0.10%	\$19,200	BANK OF NY			
SERIES 2008-A Refunding	04/24/08	07/01/35	Jul 1	5th Bus. Day	\$60,215,000	\$37,000,000	SUMITOMO	04/01/11	05/28/25	A1/P-1	A/A-1	A/F1	\$37,547,397	0.3150%	\$118,274	BAML	WED	0.07%	\$25,900	BANK OF NY			
SERIES 2011-A-1 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$60,545,000	\$36,660,000	B of A	02/01/24	02/08/27	Aa1/VMIG1	A+/A-1	AAA/F1+	\$37,069,788	0.3200%	\$118,623	Goldman	DAILY	0.07%	\$25,662	BANK OF NY			
SERIES 2011-A-2 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$40,370,000	\$24,440,000	B of A	02/01/24	02/08/27	Aa1/VMIG1	A+/A-1	AAA/F1+	\$24,713,192	0.3200%	\$79,082	Goldman	DAILY	0.07%	\$17,108	BANK OF NY			
SERIES 2009 - A	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$42,500,000	US BANK	04/01/11	05/01/25	Aa2/VMIG1	AA-/A-1+	AA/F1+	\$42,975,068	0.3000%	\$128,925	US Bank	DAILY	0.07%	\$29,750	US BANK			
SERIES 2009 - B	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$42,500,000	B of A	04/01/11	04/21/25	Aa2/VMIG1	A/A-1	A1/F1+	\$42,975,068	0.2800%	\$120,330	Goldman	DAILY	0.07%	\$29,750	US BANK			
<b>\$349,430,000</b>						<b>\$202,300,000</b>	<b>SUB-TOTAL VARIABLE RATE DEBT</b>							<b>\$204,739,321</b>		<b>0.3046%</b>		<b>\$623,612</b>		<b>0.07%</b>		<b>\$147,370</b>	
														(Wt. Avg)				(Wt. Avg)					
FIXED RATE ISSUES																							
2010 GO Build America Taxable Bonds	12/16/10	05/01/40	May (2025)	May/Nov	\$175,000,000	\$175,000,000	N/A	N/A	N/A	Aa1	AAA	NR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK			
2016 COPS	09/01/16	03/01/46	Mar 1	Mar/Sept	\$116,745,000	\$101,490,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK			
SERIES 2016	10/12/16	02/01/46	Feb 1	Feb/Aug	\$103,400,000	\$96,605,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BANK OF NY			
<b>\$395,145,000</b>						<b>\$373,095,000</b>	<b>SUB-TOTAL FIXED RATE DEBT</b>																
<b>\$744,575,000</b>						<b>\$575,395,000</b>	<b>TOTAL- FIXED &amp; VARIABLE RATE DEBT</b>																

Remarketing Agents			GO VS COP's		
Goldman	103,600,000	51%	GO:	473,905,000	82%
BAML	56,200,000	28%	COPS:	101,490,000	18%
US Bank	42,500,000	21%	Total	<u>575,395,000</u>	
	<u>202,300,000</u>				

LOC Banks			Breakdown Between Variable & Fixed Rate Mode		
SUMITOMO	37,000,000	18%	Daily Issues	165,300,000	29%
BANK OF AMERICA	103,600,000	51%	Weekly Issues	37,000,000	6%
US BANK	61,700,000	30%	Sub-Total	<u>202,300,000</u>	
	<u>202,300,000</u>		Fixed Rate Issues	\$373,095,000	65%
			Sub-Total - Fixed	<u>373,095,000</u>	
			TOTAL DEBT		
			FIXED & VAR.	<u>575,395,000</u>	100%

SUMMARY OF DEBT RATES  
Dec-24

Rmkt Agent Mode	GOLDMAN	GOLDMAN	GOLDMAN	MERRILL LYNCH		US BANK
	DAILY	DAILY	DAILY	DAILY	WEEKLY	DAILY
Bond Issue	2009 - B	2011 A-1	2011 A-2	1993	2008-A	2009-A
Par Amount	42,500,000	36,660,000	24,440,000	19,200,000	37,000,000	42,500,000
LOC Bank Reset	BOFA	BOFA	BOFA	US BANK	Sumitomo Wednesday	US BANK
12/1/2024	2.50%	2.50%	2.50%	2.60%	1.94%	1.80%
12/2/2024	1.00%	1.00%	1.00%	1.25%	1.94%	1.30%
12/3/2024	1.00%	1.00%	1.00%	0.50%	1.94%	0.80%
12/4/2024	0.55%	0.55%	0.55%	0.30%	1.94%	0.50%
12/5/2024	0.50%	0.50%	0.50%	0.20%	1.23%	0.40%
12/6/2024	0.40%	0.40%	0.40%	0.20%	1.23%	0.40%
12/7/2024	0.40%	0.40%	0.40%	0.20%	1.23%	0.40%
12/8/2024	0.40%	0.40%	0.40%	0.20%	1.23%	0.40%
12/9/2024	0.40%	0.40%	0.40%	0.20%	1.23%	0.40%
12/10/2024	0.75%	0.75%	0.75%	0.70%	1.23%	0.55%
12/11/2024	1.75%	1.75%	1.75%	1.40%	1.23%	1.10%
12/12/2024	2.25%	2.25%	2.25%	2.65%	2.02%	2.15%
12/13/2024	3.80%	3.80%	3.80%	3.40%	2.02%	3.70%
12/14/2024	3.80%	3.80%	3.80%	3.40%	2.02%	3.70%
12/15/2024	3.80%	3.80%	3.80%	3.40%	2.02%	3.70%
12/16/2024	3.10%	3.10%	3.10%	2.90%	2.02%	3.65%
12/17/2024	2.30%	2.30%	2.30%	2.50%	2.02%	2.80%
12/18/2024	2.80%	2.80%	2.80%	3.35%	2.02%	2.75%
12/19/2024	3.95%	3.95%	3.95%	3.90%	2.73%	3.90%
12/20/2024	4.20%	4.20%	4.20%	3.95%	2.73%	3.95%
12/21/2024	4.20%	4.20%	4.20%	3.95%	2.73%	3.95%
12/22/2024	4.20%	4.20%	4.20%	3.95%	2.73%	3.95%
12/23/2024	4.15%	4.15%	4.15%	4.00%	2.73%	4.00%
12/24/2024	4.05%	4.05%	4.05%	4.00%	2.73%	4.00%
12/25/2024	4.05%	4.05%	4.05%	4.00%	2.73%	4.00%
12/26/2024	3.95%	3.95%	3.95%	4.00%	2.78%	3.90%
12/27/2024	3.85%	3.85%	3.85%	3.85%	2.78%	3.85%
12/28/2024	3.85%	3.85%	3.85%	3.85%	2.78%	3.85%
12/29/2024	3.85%	3.85%	3.85%	3.85%	2.78%	3.85%
12/30/2024	3.85%	3.85%	3.85%	3.75%	2.78%	3.75%
12/31/2024	3.80%	3.80%	3.80%	3.50%	2.78%	3.65%
Avg Interest Rates	2.69%	2.69%	2.69%	2.58%	2.14%	2.62%
Rmkt Fee	0.07%	0.07%	0.07%	0.10%	0.07%	0.07%
LOC Fee	0.28%	0.32%	0.32%	0.30%	0.32%	0.30%
<b>All-In Rate</b>	<b>3.04%</b>	<b>3.08%</b>	<b>3.08%</b>	<b>2.98%</b>	<b>2.52%</b>	<b>2.99%</b>
Par Amount		103,600,000		56,200,000		42,500,000

Interest Rate Mode	Percent of Total Variable Rate Debt	Par Outstanding	Weighted All-In Average Rate	Base Rate Average
Daily	81.71%	165,300,000	3.03%	2.66%
Weekly	18.29%	37,000,000	2.52%	2.14%
	100.00%	<b>\$202,300,000</b>	2.94%	2.56%
<b>Fixed</b>				
COPS 2016	27.20%	101,490,000	2.90%	
BABS 2010	46.90%	175,000,000	4.44%	(1)
SERIES 2016	25.89%	96,605,000	3.32%	
	100.00%	<b>\$373,095,000</b>	3.73%	
<b>All-In Debt Rate Including \$60 Million Notional Amount of Swaps</b>				<b>3.57%</b>

(1) Rate adjusted up from 4.35% as a result of sequestration reducing BAB's subsidy by 5.7%

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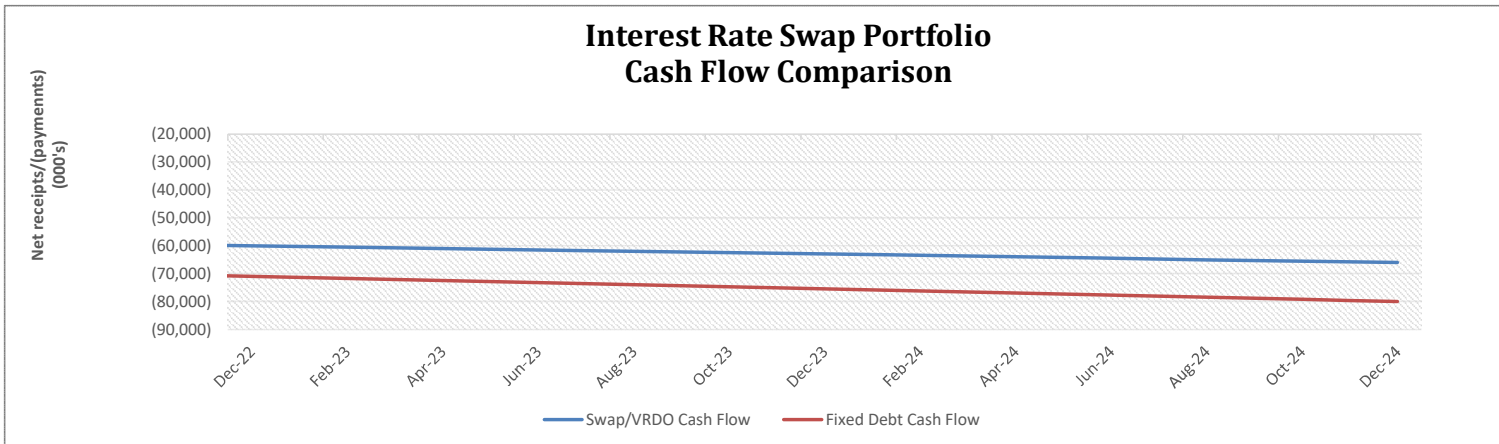
Exhibit "C"  
**Irvine Ranch Water District**  
**Interest Rate Swap Summary**  
**December 2024**

	Prior Mo.	Current Mo.	12-Mo Avg
SFR1M (Lbr Rpl) Avg %	4.72%	4.52%	5.02%

Current Fiscal Year Active Swaps								Cash Flow				(Since 3/07)	Mark to Market	
Effective Date	Maturity Date	Years to Maturity	Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Net Accrual	Current Mark to Market	Notional Difference	
<b>Fixed Payer Swaps - By Effective Date</b>														
3/10/2007	3/10/2029	4.2	ML	30,000,000	FXP	LIBOR	5.687%	(17,436)	(27,133)	(79,380)	(22,068,632)	28,232,605	(1,767,395)	
3/10/2007	3/10/2029	4.2	CG	30,000,000	FXP	LIBOR	5.687%	(17,436)	(27,133)	(79,380)	(22,068,425)	28,237,633	(1,762,367)	
<b>Totals/Weighted Avgs</b>				<b>\$ 60,000,000</b>			<b>5.687%</b>	<b>\$ (34,872)</b>	<b>\$ (54,266)</b>	<b>\$ (158,760)</b>	<b>\$ (44,137,058)</b>	<b>\$ 56,470,238</b>	<b>\$ (3,529,762)</b>	
<b>Total Current Year Active Swaps</b>				<b>\$ 60,000,000</b>				<b>\$ (34,872)</b>	<b>\$ (54,266)</b>	<b>\$ (158,760)</b>	<b>\$ (44,137,058)</b>	<b>\$ 56,470,238</b>	<b>\$ (3,529,762)</b>	

Current Fiscal Year Terminated Swaps								Cash Flow				Mark to Market	
Effective Date	Maturity Date		Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Net Accrual	Current Mark to Market	Notional Difference
<b>Total Current Year Terminated Swaps</b>								<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Current Fiscal Year - Total Swaps								Cash Flow				Mark to Market		
Effective Date	Maturity Date		Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Net Accrual	Current Mark to Market	Notional Difference	
<b>Total Current Year Active &amp; Terminated Swaps</b>								<b>\$ 60,000,000</b>	<b>\$ (34,872)</b>	<b>\$ (54,266)</b>	<b>\$ (158,760)</b>	<b>\$ (44,137,058)</b>	<b>\$ 56,470,238</b>	<b>\$ (3,529,762)</b>



Cash Flow Comparison	
Synthetic Fixed vs. Fixed Rate Debt	
Cash Flow to Date	
Synthetic Fixed =	\$66,012,010
Fixed Rate =	\$79,934,677
<b>Assumptions:</b>	
- Fixed rate debt issued at 4.93% in Mar-07 (estimated TE rate - Bloomberg)	
- 'Synthetic' includes swap cash flow + interest + fees to date	

Note: This page is intentionally left blank.

Exhibit "D"

IRVINE RANCH WATER DISTRICT  
 AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446552	5-Dec-24	3SE	2,052.50
446553	5-Dec-24	8X8 INC	14,966.41
446554	5-Dec-24	AIRGAS, INC.	2,519.01
446555	5-Dec-24	ANDRITZ SEPARATION, INC.	2,580.15
446556	5-Dec-24	ANTHONY N. LARSEN	810.00
446557	5-Dec-24	AQUA-AEROBIC SYSTEMS INC	34,014.59
446558	5-Dec-24	ARAKELIAN ENTERPRISES, INC.	12,933.49
446559	5-Dec-24	AT&T CORP	65.32
446560	5-Dec-24	AT&T CORP	4,612.91
446561	5-Dec-24	AT&T CORP	228.96
446562	5-Dec-24	AT&T MOBILITY	95.49
446563	5-Dec-24	AUTOZONE PARTS, INC.	42.01
446564	5-Dec-24	AVIAT U.S., INC	600.00
446565	5-Dec-24	AZTEC TECHNOLOGY CORPORATION	969.76
446566	5-Dec-24	BOCKENSTETTE, SUSAN	89.32
446567	5-Dec-24	BOOYA, LLC	2,220.87
446568	5-Dec-24	BPS SUPPLY GROUP	697.72
446569	5-Dec-24	BRADY CORPORATION	77,800.00
446570	5-Dec-24	BURLINGTON SAFETY LABORATORY	3,188.33
446571	5-Dec-24	CHAPMAN COAST ROOF CO., INC	128,021.24
446572	5-Dec-24	CHOI, CHAN	31.51
446573	5-Dec-24	CITY OF TUSTIN	839.11
446574	5-Dec-24	CLEAN ENERGY	7,502.63
446575	5-Dec-24	COUNTY OF ORANGE	130,529.50
446576	5-Dec-24	COUNTY OF RIVERSIDE	591,397.52
446577	5-Dec-24	COX COMMUNICATIONS, INC.	332.50
446578	5-Dec-24	DEALERS SERVICE COMPANY, INC	2,065.14
446579	5-Dec-24	DEE JASPAR & ASSOCIATES, INC.	653.50
446580	5-Dec-24	DELANEY, DARCI	306.48
446581	5-Dec-24	DENNEY, MARY	20.83
446582	5-Dec-24	DIRECTV INC	152.99
446583	5-Dec-24	DOPUDJA & WELLS CONSULTING INC.	21,381.25
446584	5-Dec-24	E&M ELECTRIC AND MACHINERY, INC.	224,765.00
446585	5-Dec-24	EAST ORANGE COUNTY WATER DISTRICT	1,906.59
446586	5-Dec-24	EDMONDSON, DAVID	305.73
446587	5-Dec-24	ENDEMIC ENVIRONMENTAL SERVICES, INC.	1,344.00
446588	5-Dec-24	EXLINE, INC.	376.86
446589	5-Dec-24	FASTBLUE COMMUNICATIONS INC.	1,988.72
446590	5-Dec-24	FEDEX	262.45
446591	5-Dec-24	FEDEX NATIONAL LTL, INC	835.19
446592	5-Dec-24	FISHER SCIENTIFIC COMPANY, LLC	7,549.40
446593	5-Dec-24	FORESTRY SUPPLIERS INC	737.85
446594	5-Dec-24	FRONTIER CALIFORNIA INC.	419.99
446595	5-Dec-24	GALLAGHER BENEFIT SERVICES, INC.	2,205.00

IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446596	5-Dec-24	GEORGE HILLS COMPANY, INC.	1,482.70
446597	5-Dec-24	GRAYBAR ELECTRIC COMPANY	112.17
446598	5-Dec-24	GREGORY, D	188.69
446599	5-Dec-24	GRISWOLD INDUSTRIES	37,410.89
446600	5-Dec-24	GUY L WARDEN & SONS	1,933.64
446601	5-Dec-24	HACH COMPANY	1,450.49
446602	5-Dec-24	HI-LINE INC	89.87
446603	5-Dec-24	HU, LISHIA	996.88
446604	5-Dec-24	IDEA HALL	41,362.50
446605	5-Dec-24	IDR ENVIRONMENTAL SERVICES	600.00
446606	5-Dec-24	INTEGRITY MUNICIPAL SYSTEMS LLC	2,862.00
446607	5-Dec-24	IRIS GROUP HOLDINGS LLC	300.00
446608	5-Dec-24	JAMES BRADFORD HALDEMAN	4,975.00
446609	5-Dec-24	JOHN ROBINSON CONSULTING, INC.	6,050.00
446610	5-Dec-24	JUST ENERGY SOLUTIONS INC.	79.02
446611	5-Dec-24	KANG, BOKNAM	54.45
446612	5-Dec-24	KANNAN, SAINI	58.04
446613	5-Dec-24	KERN COUNTY TREASURER TAX COLLECTOR	83,995.73
446614	5-Dec-24	KINGS COUNTY TAX COLLECTOR	29,301.70
446615	5-Dec-24	KURZ INSTRUMENTS INC	3,036.66
446616	5-Dec-24	LEAVITT MACHINERY USA INC.	384.22
446617	5-Dec-24	LINDE GAS & EQUIPMENT INC.	13,508.81
446618	5-Dec-24	LOZANO SMITH, LLP	10,448.50
446619	5-Dec-24	MR CRANE INC	1,351.25
446620	5-Dec-24	MUTUAL PROPANE	301.86
446621	5-Dec-24	NATIONAL OILWELL VARCO, L.P.	567.80
446622	5-Dec-24	NATIONAL READY MIXED CONCRETE SALES, LLC	1,073.71
446623	5-Dec-24	NATIONAL SAFETY COMPLIANCE, INC	104.50
446624	5-Dec-24	NEUMERIC TECHNOLOGIES CORPORATION	11,000.00
446625	5-Dec-24	NEW RESOURCES GROUP INC	1,132.50
446626	5-Dec-24	NORDSTROM INC	32.44
446627	5-Dec-24	OLIVAS, VIRGINIA	123.01
446628	5-Dec-24	ONLOGIC, INC.	8,739.95
446629	5-Dec-24	ORANGE COUNTY FIRE AUTHORITY	4,858.00
446630	5-Dec-24	ORANGE COUNTY TREASURER	589.01
446631	5-Dec-24	PACIFIC MECHANICAL SUPPLY	5,061.92
446632	5-Dec-24	PE INSTRUMENTS	500.00
446633	5-Dec-24	PLUMBERS DEPOT INC	225.88
446634	5-Dec-24	PTI SAND & GRAVEL INC	3,498.82
446635	5-Dec-24	QUADIENT LEASING USA, INC.	2,131.24
446636	5-Dec-24	R C FOSTER CORPORATION	483,376.34
446637	5-Dec-24	REECE SUPPLY LLC	1,168.02
446638	5-Dec-24	RENTOKIL NORTH AMERICA, INC	3,587.25
446639	5-Dec-24	RICHARD C. SLADE & ASSOCIATES LLC	8,008.84

IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446640	5-Dec-24	ROBERT HALF INC.	9,200.00
446641	5-Dec-24	SAFETY-KLEEN SYSTEMS, INC	442.50
446642	5-Dec-24	SCHINDLER ELEVATOR CORPORATION	347.26
446643	5-Dec-24	SERRANO WATER DISTRICT	3,720.81
446644	5-Dec-24	SHOETERIA	656.24
446645	5-Dec-24	SITEONE LANDSCAPE SUPPLY, LLC	603.41
446646	5-Dec-24	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	3,535.56
446647	5-Dec-24	SOUTH COAST WATER CO.	100.00
446648	5-Dec-24	SOUTHERN CALIFORNIA EDISON COMPANY	489,181.10
446649	5-Dec-24	SPARKLETTES	327.12
446650	5-Dec-24	SYNAGRO-WWT, INC.	130,493.15
446651	5-Dec-24	TANKVISIONS, INC	30.00
446652	5-Dec-24	THE FORGE MEDIA GROUP LLC	10,000.00
446653	5-Dec-24	THE GUERRA COMPANIES	3,620.95
446654	5-Dec-24	TK ELEVATOR CORPORATION	980.37
446655	5-Dec-24	TRENCH SHORING COMPANY	238.17
446656	5-Dec-24	TRI COUNTY PUMP COMPANY	31,787.68
446657	5-Dec-24	TUSTIN CHAMBER OF COMMERCE	500.00
446658	5-Dec-24	UNITED PARCEL SERVICE INC	53.65
446659	5-Dec-24	VERIZON WIRELESS SERVICES LLC	14,099.04
446660	5-Dec-24	VINCE TURSINI	2,593.00
446661	5-Dec-24	VULCAN MATERIALS COMPANY	2,119.41
446662	5-Dec-24	VWR FUNDING, INC.	71.16
446663	5-Dec-24	W. W. GRAINGER, INC.	5,179.07
446664	5-Dec-24	WALTERS WHOLESALE ELECTRIC CO	40,907.92
446665	5-Dec-24	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	11,092.40
446666	5-Dec-24	WAXIE'S ENTERPRISES, LLC	2,506.54
446667	5-Dec-24	WEST YOST & ASSOCIATES, INC.	18,250.00
446668	5-Dec-24	WESTAIR GASES & EQUIPMENT, INC.	45.60
446669	5-Dec-24	XU, HAIFENG	60.54
446670	5-Dec-24	FRANCHISE TAX BOARD	342.00
446671	5-Dec-24	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	8,588.90
446672	5-Dec-24	ORANGE COUNTY FIRE AUTHORITY	2,167.00
446673	5-Dec-24	PERS LONG TERM CARE	363.31
446674	5-Dec-24	STATE OF ARKANSAS	938.77
446675	12-Dec-24	11:11 SYSTEMS INC.	6,382.50
446676	12-Dec-24	ADS CORP.	2,781.00
446677	12-Dec-24	AGILENT TECHNOLOGIES, INC.	2,254.73
446678	12-Dec-24	AIRGAS, INC.	2,286.78
446679	12-Dec-24	ALL AMERICAN ASPHALT	1,504.15
446680	12-Dec-24	ANIXTER INC	46,607.26
446681	12-Dec-24	ASHFORD, WALT	707.97
446682	12-Dec-24	AT&T CORP	2,051.20
446683	12-Dec-24	AUTOZONE PARTS, INC.	95.89

IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446684	12-Dec-24	BEST DRILLING AND PUMP, INC.	40,375.00
446685	12-Dec-24	BIRMINGHAM FASTENER & SUPPLY, INCORPORATED	663.23
446686	12-Dec-24	BPS SUPPLY GROUP	1,303.55
446687	12-Dec-24	BRUCE HADLEY NEWELL	1,250.00
446688	12-Dec-24	BURLINGTON SAFETY LABORATORY	1,003.67
446689	12-Dec-24	BUTIER ENGINEERING INC	13,680.00
446690	12-Dec-24	C WELLS PIPELINE MATERIALS, INC	4,437.79
446691	12-Dec-24	CALIFORNIA NATIVE PLANT SOCIETY	350.00
446692	12-Dec-24	CANON SOLUTIONS AMERICA, INC	31.19
446693	12-Dec-24	CASHCO INC	420.34
446694	12-Dec-24	CITY OF SANTA ANA	420.03
446695	12-Dec-24	CLIFFORD MORIYAMA	10,000.00
446696	12-Dec-24	CORELOGIC INC	47.46
446697	12-Dec-24	DANIEL PATRICK JENKINS	273.37
446698	12-Dec-24	DAVIS FARR LLP	6,100.00
446699	12-Dec-24	DBAC INC	1,900.00
446700	12-Dec-24	DCS MANAGEMENT LLC	1,126.13
446701	12-Dec-24	DCSE, INC.	35,344.50
446702	12-Dec-24	DELL MARKETING LP	7,557.21
446703	12-Dec-24	DG INVESTMENT INTERMEDIATE HOLDINGS 2, INC.	7,581.14
446704	12-Dec-24	DIAS, FRANCIS MARTIN	463.43
446705	12-Dec-24	DISCOVERY SCIENCE CENTER OF ORANGE COUNTY	5,609.40
446706	12-Dec-24	DUDLEY RIDGE WATER DISTRICT	212,137.32
446707	12-Dec-24	ELIJAH STANDING WARRIOR	900.00
446708	12-Dec-24	ENDEMIC ENVIRONMENTAL SERVICES, INC.	2,688.00
446709	12-Dec-24	ENEL X ADVISORY SERVICES NORTH AMERICA, INC.	3,000.00
446710	12-Dec-24	ENVIRONMENTAL RESOURCE ASSOCIATES, INC.	900.92
446711	12-Dec-24	EXLINE, INC.	22,361.63
446712	12-Dec-24	FARWEST CORROSION CONTROL COMPANY	6,275.99
446713	12-Dec-24	FEDEX	56.88
446714	12-Dec-24	FIRE EXTINGUISHING SAFETY & SERVICE	854.26
446715	12-Dec-24	FISHER SCIENTIFIC COMPANY, LLC	8,790.79
446716	12-Dec-24	GMU GEOTECHNICAL INC	3,380.00
446717	12-Dec-24	GRAYBAR ELECTRIC COMPANY	4,885.76
446718	12-Dec-24	GRISWOLD INDUSTRIES	9,887.15
446719	12-Dec-24	GSRP ST SOLAR I LLC	9,002.95
446720	12-Dec-24	HACH COMPANY	2,912.76
446721	12-Dec-24	HERITAGE FIELDS EL TORO, LLC	4,111.72
446722	12-Dec-24	HOYA OPTICAL LABS OF AMERICA, INC.	211.00
446723	12-Dec-24	HUBBELL LENOIR CITY	14,001.31
446724	12-Dec-24	IDR ENVIRONMENTAL SERVICES	1,350.00
446725	12-Dec-24	INFOSEND, INC.	38,736.82
446726	12-Dec-24	IRVINE UNIFIED SCHOOL DISTRICT	2,904.30
446727	12-Dec-24	JAMISON ENGINEERING CONTRACTORS, INC.	9,500.00

IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446728	12-Dec-24	JB BOSTICK COMPANY INC	1,599.70
446729	12-Dec-24	JVRE, INC	37.50
446730	12-Dec-24	KALALALAVI, FATEMEH	1,835.88
446731	12-Dec-24	KROHNE, INC	1,521.60
446732	12-Dec-24	KYA SERVICES, LLC	1,567.85
446733	12-Dec-24	L & S CONSTRUCTION INC	2,600.00
446734	12-Dec-24	LEIGHTON CONSULTING, INC.	316.50
446735	12-Dec-24	LILLESTRAND LEADERSHIP CONSULTING, INC.	9,993.75
446736	12-Dec-24	LINDE GAS & EQUIPMENT INC.	124.05
446737	12-Dec-24	LIXING, LISA	4,180.06
446738	12-Dec-24	LOZANO SMITH, LLP	3,112.00
446739	12-Dec-24	MAP COMMUNICATIONS, INC.	1,232.97
446740	12-Dec-24	MC MASTER-CARR SUPPLY COMPANY	694.97
446741	12-Dec-24	MICHAEL K. NUNLEY & ASSOCIATES, INC.	8,216.00
446742	12-Dec-24	MILES CHEMICAL COMPANY, INC.	12,855.18
446743	12-Dec-24	MILES, DOUG	144.06
446744	12-Dec-24	MUTUAL PROPANE	27.00
446745	12-Dec-24	NATIONAL READY MIXED CONCRETE SALES, LLC	571.09
446746	12-Dec-24	NCH CORPORATION	1,449.83
446747	12-Dec-24	NGUYEN, MIMI	662.67
446748	12-Dec-24	NORIMA CONSULTING US	9,065.00
446749	12-Dec-24	O'REILLY AUTO ENTERPRISES, LLC	157.23
446750	12-Dec-24	ONESOURCE DISTRIBUTORS, LLC	2,494.36
446751	12-Dec-24	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	111.75
446752	12-Dec-24	OSTS, INC	6,042.00
446753	12-Dec-24	PACIFIC HYDROTECH CORPORATION	5,700.00
446754	12-Dec-24	PACIFIC HYDROTECH CORPORATION	300.00
446755	12-Dec-24	PENN ARCHIVE SERVICES	92.98
446756	12-Dec-24	PIERPONT TECHNOLOGIES, LLC	27,720.00
446757	12-Dec-24	PREFERRED PAVING CO	1,519.45
446758	12-Dec-24	PRUDENTIAL OVERALL SUPPLY	9,550.23
446759	12-Dec-24	REPORT IT, LLC	1,559.00
446760	12-Dec-24	RESA SERVICE, LLC	12,670.00
446761	12-Dec-24	REXEL USA, INC.	5,247.54
446762	12-Dec-24	ROBERT HALF INC.	3,335.00
446763	12-Dec-24	SANTA MARGARITA FORD	1,144.72
446764	12-Dec-24	SCA OF CA, LLC	3,283.75
446765	12-Dec-24	SHAMROCK SUPPLY COMPANY, INC.	452.55
446766	12-Dec-24	SHIMMICK CONSTRUCTION INC.	197,166.80
446767	12-Dec-24	SMOG TIME	65.00
446768	12-Dec-24	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	4,765.84
446769	12-Dec-24	SOUTH COAST BOBCAT	1,143.55
446770	12-Dec-24	SOUTH COAST WATER DISTRICT	1,279.00
446771	12-Dec-24	SOUTHERN CALIFORNIA EDISON COMPANY	533,708.27

IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446772	12-Dec-24	SOUTHERN CALIFORNIA GAS COMPANY	36.07
446773	12-Dec-24	SOUTHSIDE TOWING	2,450.00
446774	12-Dec-24	SPARKLETTS	33.27
446775	12-Dec-24	STANTEC CONSULTING SERVICES INC.	11,924.50
446776	12-Dec-24	SWAINS ELECTRIC MOTOR SERVICE	27,491.87
446777	12-Dec-24	THE GUERRA COMPANIES	672.00
446778	12-Dec-24	THE SHYFT GROUP USA, INC	46.11
446779	12-Dec-24	TICIC SUB LLC	1,136.33
446780	12-Dec-24	TIERRA VERDE INDUSTRIES	204.73
446781	12-Dec-24	TOM'S TRUCK CENTER NORTH COUNTY, LLC	1,504.05
446782	12-Dec-24	TRENCH SHORING COMPANY	113.78
446783	12-Dec-24	TRIPAC MARKETING INC	917.59
446784	12-Dec-24	TUV SUD AMERICA, INC.	435.00
446785	12-Dec-24	ULINE, INC	3,434.58
446786	12-Dec-24	UNITED PARCEL SERVICE INC	32.90
446787	12-Dec-24	UNITED RENTALS (NORTH AMERICA), INC.	1,572.46
446788	12-Dec-24	UNIVAR SOLUTIONS USA , LLC	10,498.00
446789	12-Dec-24	USA WASTE OF CALIFORNIA, INC.	1,670.37
446790	12-Dec-24	V&A CONSULTING ENGINEERS	8,258.82
446791	12-Dec-24	VERIZON WIRELESS SERVICES LLC	18,449.06
446792	12-Dec-24	VWR FUNDING, INC.	5,092.86
446793	12-Dec-24	W. W. GRAINGER, INC.	7,743.83
446794	12-Dec-24	WALTERS WHOLESALE ELECTRIC CO	8,074.68
446795	12-Dec-24	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	3,598.82
446796	12-Dec-24	WATERLINE TECHNOLOGIES INC	4,080.00
446797	12-Dec-24	WAXIE'S ENTERPRISES, LLC	2,769.85
446798	12-Dec-24	WECK ANALYTICAL ENVIRONMENT SERVICES, INC.	5,430.00
446799	12-Dec-24	WESTERN SAFETY PRODUCTS INC	1,363.72
446800	12-Dec-24	YUNMI MARTIN	7,750.00
446801	12-Dec-24	RODNEY HARMSWORTH ASSOCIATES, INC.	12,640.67
446802	19-Dec-24	AGILENT TECHNOLOGIES, INC.	1,656.22
446803	19-Dec-24	AIRGAS, INC.	1,611.92
446804	19-Dec-24	AMINI, LILY	643.57
446805	19-Dec-24	ANIXTER INC	1,337.30
446806	19-Dec-24	AT&T CORP	173.73
446807	19-Dec-24	AUTOZONE PARTS, INC.	85.29
446808	19-Dec-24	B & H PHOTO VIDEO	4,425.65
446809	19-Dec-24	BABAZADEH, KEAUMARS	295.70
446810	19-Dec-24	BORCHARD SURVEYING & MAPPING, INC.	1,080.00
446811	19-Dec-24	BRIAN HOMSY	4,294.27
446812	19-Dec-24	CANON FINANCIAL SERVICES, INC.	9,790.47
446813	19-Dec-24	CHO DESIGN ASSOCIATES, INC	800.00
446814	19-Dec-24	CHUMO CONSTRUCTION INC	925.95
446815	19-Dec-24	COMMERCIAL TRANSPORTATION SRV INC DINO PERUGINO	6,233.44



IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446816	19-Dec-24	CORNELL COURT APTS	46.04
446817	19-Dec-24	CPARS CONSULTING, INC.	27,446.27
446818	19-Dec-24	CR & R INCORPORATED	569.02
446819	19-Dec-24	CURTIS, KRISTEN	39.72
446820	19-Dec-24	D & H WATER SYSTEMS INC.	2,229.52
446821	19-Dec-24	DEE JASPAR & ASSOCIATES, INC.	508.50
446822	19-Dec-24	DELL MARKETING LP	1,029.01
446823	19-Dec-24	DUSTCON SOLUTIONS INC	15,300.00
446824	19-Dec-24	EAGLE AERIAL PHOTOGRAPHY INC	36,636.18
446825	19-Dec-24	ENDEMIC ENVIRONMENTAL SERVICES, INC.	1,344.00
446826	19-Dec-24	ENVIRONMENTAL EXPRESS, INC.	1,740.30
446827	19-Dec-24	FARRELL PRINTING, INC.	111.03
446828	19-Dec-24	FEDEX	322.81
446829	19-Dec-24	FISHER SCIENTIFIC COMPANY, LLC	1,183.16
446830	19-Dec-24	FIVE POINT COMMUNITIES	972.70
446831	19-Dec-24	FULLER TRUCK ACCESSORIES	118.49
446832	19-Dec-24	GARDEN COMMUNITIES	2,216.00
446833	19-Dec-24	GARY BALE REDI-MIX CONCRETE, INC.	1,147.55
446834	19-Dec-24	HARRINGTON INDUSTRIAL PLASTICS LLC	11,272.38
446835	19-Dec-24	HDR ENGINEERING INC	6,360.00
446836	19-Dec-24	HERMITAGE PROPERTY MANAGEMENT	77.14
446837	19-Dec-24	HI-LINE INC	703.20
446838	19-Dec-24	HOME DEPOT USA INC	120.05
446839	19-Dec-24	HOME DEPOT USA INC	521.08
446840	19-Dec-24	INNOVATIVE CONSTRUCTION SOLUTIONS	359,834.35
446841	19-Dec-24	JING QU AND YANG WANG	977.78
446842	19-Dec-24	KING, DAVID	64.71
446843	19-Dec-24	KOONIN, JASON	419.99
446844	19-Dec-24	LENNAR HOMES OF CALIFORNIA, INC.	69.70
446845	19-Dec-24	LIN, YUHUI	1,254.66
446846	19-Dec-24	LU'S LIGHTHOUSE, INC.	1,364.67
446847	19-Dec-24	MC MASTER-CARR SUPPLY COMPANY	394.57
446848	19-Dec-24	MCCLAINS FURNITURE	1,680.00
446849	19-Dec-24	MHI PROS	19,862.31
446850	19-Dec-24	MICHAEL K. NUNLEY & ASSOCIATES, INC.	14,166.30
446851	19-Dec-24	NEWPORT BLUFFS APTS	434.00
446852	19-Dec-24	NEZAFATI, BIJAN	106.70
446853	19-Dec-24	NINYO & MOORE	7,450.75
446854	19-Dec-24	NORTHWOOD PLACE APTS	1,993.07
446855	19-Dec-24	OC PUBLIC WORKS	782.37
446856	19-Dec-24	ONESOURCE DISTRIBUTORS, LLC	7,333.25
446857	19-Dec-24	ONLOGIC, INC.	3,384.82
446858	19-Dec-24	ORANGE COUNTY WINWATER WORKS	1,616.80
446859	19-Dec-24	PACIFIC EH&S SERVICES, INC.	6,667.28

IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446860	19-Dec-24	PACIFIC HYDROTECH CORPORATION	58,200.40
446861	19-Dec-24	PACIFIC HYDROTECH CORPORATION	3,063.18
446862	19-Dec-24	PALP INC. DBA EXCEL PAVING COMPANY	122,807.69
446863	19-Dec-24	PERCIVAL, WILLIAM	335.87
446864	19-Dec-24	PONTON INDUSTRIES INC	4,430.68
446865	19-Dec-24	PTI SAND & GRAVEL INC	1,692.72
446866	19-Dec-24	RAILPROS FIELD SERVICES INC.	4,944.00
446867	19-Dec-24	RANCHO ALISAL APTS	200.40
446868	19-Dec-24	RANCHO MONTEREY APARTMENTS	969.32
446869	19-Dec-24	REECE SUPPLY LLC	491.05
446870	19-Dec-24	RYAN HERCO PRODUCTS CORP	5,217.24
446871	19-Dec-24	SAN MARCO APARTMENTS	302.40
446872	19-Dec-24	SOUTH COAST BOBCAT	58.76
446873	19-Dec-24	SOUTH COAST WATER DISTRICT	143.39
446874	19-Dec-24	SOUTHERN CALIFORNIA EDISON COMPANY	1,536.32
446875	19-Dec-24	SOUTHERN CALIFORNIA GAS COMPANY	2,602.36
446876	19-Dec-24	STANDARD & POOR'S FINANCIAL SERVICES LLC	3,500.00
446877	19-Dec-24	SUZANNA CHOI	7,000.00
446878	19-Dec-24	TAYLOR MORRISON OF CALIFORNIA, LLC	56.55
446879	19-Dec-24	TEMPLIN, PAM	46.87
446880	19-Dec-24	TESCO CONTROLS, LLC	10,356.00
446881	19-Dec-24	THE CLIMATE REGISTRY	3,309.00
446882	19-Dec-24	TIC-IPG-COMMON	89.98
446883	19-Dec-24	TIC-RETAIL PROPERTIES	762.39
446884	19-Dec-24	TOLL BROS. INC.	125.35
446885	19-Dec-24	TOXGUARD FLUID TECHNOLOGIES, INC	1,071.09
446886	19-Dec-24	TURTLE ROCK CANYON APTS	308.00
446887	19-Dec-24	ULINE, INC	1,297.92
446888	19-Dec-24	UNITED PARCEL SERVICE INC	145.87
446889	19-Dec-24	VINCE TURSINI	525.00
446890	19-Dec-24	VISTA PAINT CORPORATION	364.20
446891	19-Dec-24	VOLLAIRE, JAMES	19.09
446892	19-Dec-24	VULCAN INDUSTRIES INC	3,261.50
446893	19-Dec-24	VWR FUNDING, INC.	2,623.81
446894	19-Dec-24	W. W. GRAINGER, INC.	11,294.67
446895	19-Dec-24	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	2,034.28
446896	19-Dec-24	WAXIE'S ENTERPRISES, LLC	878.01
446897	19-Dec-24	WOODBIDGE PINES APTS	186.00
446898	19-Dec-24	YOAKUM, MARYLOU S	35.67
446899	19-Dec-24	YU, JUNJIE	435.75
446900	19-Dec-24	FRANCHISE TAX BOARD	342.00
446901	19-Dec-24	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	8,783.85
446902	19-Dec-24	PERS LONG TERM CARE	363.31
446903	19-Dec-24	STATE OF ARKANSAS	938.77

IRVINE RANCH WATER DISTRICT  
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446904	19-Dec-24	STATE OF CALIFORNIA, DEPARTMENT OF WATER RESOURCES	3,144.00
446905	19-Dec-24	STATE WATER RESOURCES CONTROL BOARD	366,090.00
446906	26-Dec-24	AAF INTERNATIONAL	1,325.61
446907	26-Dec-24	AIRGAS, INC.	2,638.12
446908	26-Dec-24	ALLIANT INSURANCE SERVICES, INC	1,250.00
446909	26-Dec-24	AT&T CORP	165.87
446910	26-Dec-24	AT&T CORP	6,657.00
446911	26-Dec-24	AT&T CORP	12,790.64
446912	26-Dec-24	AUTOZONE PARTS, INC.	503.97
446913	26-Dec-24	BPS SUPPLY GROUP	79.74
446914	26-Dec-24	BRIAN HOMSY	585.60
446915	26-Dec-24	BROOKFIELD RESIDENTIAL	544.59
446916	26-Dec-24	CALIFORNIA MUNICIPAL STATISTICS INC	2,000.00
446917	26-Dec-24	CHAMPION PAVING INC	1,299.40
446918	26-Dec-24	CHAPMAN COAST ROOF CO., INC	16,131.65
446919	26-Dec-24	CHEM TECH INTERNATIONAL INC	7,290.14
446920	26-Dec-24	COAST PLUMBING HEATING AND AIR, INC	319.00
446921	26-Dec-24	COMMERCIAL TRANSPORTATION SRV INC DINO PERUGINO	6,233.44
446922	26-Dec-24	CORELOGIC INC	608.79
446923	26-Dec-24	DAIOHS USA INCORPORATED	2,917.68
446924	26-Dec-24	DAVIS FARR LLP	5,000.00
446925	26-Dec-24	DCS MANAGEMENT LLC	1,055.44
446926	26-Dec-24	DCSE, INC.	39,134.71
446927	26-Dec-24	DELL MARKETING LP	390,486.61
446928	26-Dec-24	DEPARTMENT OF INDUSTRIAL RELATIONS STATE OF CALIFORNIA	10,985.30
446929	26-Dec-24	DG INVESTMENT INTERMEDIATE HOLDINGS 2, INC.	1,721.75
446930	26-Dec-24	DILYTICS INC	6,140.00
446931	26-Dec-24	DIRECTV INC	152.99
446932	26-Dec-24	ENDEMIC ENVIRONMENTAL SERVICES, INC.	2,194.00
446933	26-Dec-24	ENVIRONMENTAL RESOURCE ASSOCIATES, INC.	254.92
446934	26-Dec-24	ETTIPIO, JOSEPH P	1,940.40
446935	26-Dec-24	EUROFINS EATON ANALYTICAL, INC.	6,080.00
446936	26-Dec-24	FRONTIER CALIFORNIA INC.	467.55
446937	26-Dec-24	GAYDOS, TERRI	509.33
446938	26-Dec-24	GEI CONSULTANTS INC	6,731.00
446939	26-Dec-24	GEORGE HILLS COMPANY, INC.	866.80
446940	26-Dec-24	GRACE BJORNSTAD	150.80
446941	26-Dec-24	GRAYBAR ELECTRIC COMPANY	4,642.93
446942	26-Dec-24	GREYTHON CONSTRUCTION LLC	1,264.30
446943	26-Dec-24	HACH COMPANY	6,746.00
446944	26-Dec-24	HDR ENGINEERING INC	22,671.25
446945	26-Dec-24	INFOSEND, INC.	22,575.88
446946	26-Dec-24	IRON MOUNTAIN INFORMATION MANAGEMENT INC	1,184.77
446947	26-Dec-24	KANG, JAMES	48.55

IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446948	26-Dec-24	KIMBALL MIDWEST	3,052.59
446949	26-Dec-24	LAKE NEWPORT LLC	1,634.15
446950	26-Dec-24	LEE & RO, INC.	14,418.00
446951	26-Dec-24	LINDE GAS & EQUIPMENT INC.	12,282.72
446952	26-Dec-24	LOZANO SMITH, LLP	504.00
446953	26-Dec-24	MC FADDEN-DALE INDUSTRIAL HARDWARE, LLC	233.36
446954	26-Dec-24	MC MASTER-CARR SUPPLY COMPANY	943.50
446955	26-Dec-24	MITCHELL GENERAL CONTRACTORS INC	1,270.80
446956	26-Dec-24	NATIONAL SAFETY COMPLIANCE, INC	104.50
446957	26-Dec-24	NORTHWOOD PLACE APTS	3,171.22
446958	26-Dec-24	ONESOURCE DISTRIBUTORS, LLC	2,362.02
446959	26-Dec-24	ORANGE COUNTY BUSINESS COUNCIL	2,000.00
446960	26-Dec-24	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	2,446.50
446961	26-Dec-24	PACIFIC STAR CHEMICAL, LLC	3,717.46
446962	26-Dec-24	PARKHOUSE TIRE, INC.	1,580.15
446963	26-Dec-24	PAYMENTUS CORPORATION	69,876.87
446964	26-Dec-24	PINNACLE TOWERS LLC	947.99
446965	26-Dec-24	PLUMBERS DEPOT INC	3,627.93
446966	26-Dec-24	PRUDENTIAL OVERALL SUPPLY	298.60
446967	26-Dec-24	RANCHO MONTEREY APARTMENTS	18.14
446968	26-Dec-24	RANCHO SANTA FE APTS	7.92
446969	26-Dec-24	REAL WATER CONSULTANTS INC.	9,250.00
446970	26-Dec-24	REECE SUPPLY LLC	10,810.58
446971	26-Dec-24	RESILIENT COMMUNICATIONS INC.	2,900.41
446972	26-Dec-24	RESTEK CORPORATION	191.29
446973	26-Dec-24	RHINO SAFETY SOLUTIONS, INC	6,853.77
446974	26-Dec-24	ROBERT HALF INC.	3,708.75
446975	26-Dec-24	SAN CARLO APARTMENTS	1,120.80
446976	26-Dec-24	SAND CANYON MEDICAL GROUP	3,545.00
446977	26-Dec-24	SANTA MARGARITA FORD	329.61
446978	26-Dec-24	SHAMROCK SUPPLY COMPANY, INC.	31.58
446979	26-Dec-24	SHIMMICK CONSTRUCTION COMPANY	1,642.60
446980	26-Dec-24	SIGNATURE FLOORING, INC	30,262.00
446981	26-Dec-24	SITEONE LANDSCAPE SUPPLY, LLC	2,442.47
446982	26-Dec-24	SMITH, JURI	42.79
446983	26-Dec-24	SO CAL SANDBAGS INC	3,014.80
446984	26-Dec-24	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	3,037.12
446985	26-Dec-24	SOUTHERN CALIFORNIA EDISON COMPANY	37.15
446986	26-Dec-24	SOUTHERN CALIFORNIA EDISON COMPANY	29,182.30
446987	26-Dec-24	SOUTHERN CALIFORNIA GAS COMPANY	11,211.96
446988	26-Dec-24	SOUTHERN CALIFORNIA GRADING INC	1,193.40
446989	26-Dec-24	STANFORD COURT APARTMENTS	322.00
446990	26-Dec-24	STATE NET	2,646.00
446991	26-Dec-24	TAIT ENVIRONMENTAL SERVICES, INC.	480.00

IRVINE RANCH WATER DISTRICT  
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
446992	26-Dec-24	THE FORGE MEDIA GROUP LLC	76,750.00
446993	26-Dec-24	TIC-IPG-COMMON	454.10
446994	26-Dec-24	TIC-OFFICE PROPERTIES	2,527.98
446995	26-Dec-24	TIC-RETAIL PROPERTIES	1,674.59
446996	26-Dec-24	TIC-SPECTRUM OFFICE	649.79
446997	26-Dec-24	TICIC SUB LLC	12,349.58
446998	26-Dec-24	TOM'S TRUCK CENTER NORTH COUNTY, LLC	1,167.59
446999	26-Dec-24	TOTAL SAFETY U.S., INC.	865.81
447000	26-Dec-24	TRI COUNTY PUMP COMPANY	20,192.35
447001	26-Dec-24	UNITED SITE SERVICES OF CALIFORNIA INC	361.33
447002	26-Dec-24	UNIVAR SOLUTIONS USA , LLC	10,220.80
447003	26-Dec-24	USA BLUEBOOK	93.05
447004	26-Dec-24	VEOLIA NORTH AMERICA, INC.	5,177.15
447005	26-Dec-24	VULCAN MATERIALS COMPANY	2,100.51
447006	26-Dec-24	WATERLINE TECHNOLOGIES INC	3,971.20
447007	26-Dec-24	WAXIE'S ENTERPRISES, LLC	22.11
447008	26-Dec-24	WECK ANALYTICAL ENVIRONMENT SERVICES, INC.	20,990.00
447009	26-Dec-24	WEST YOST & ASSOCIATES, INC.	5,725.00
447010	26-Dec-24	WESTAIR GASES & EQUIPMENT, INC.	112.06
447011	26-Dec-24	WESTERN SAFETY PRODUCTS INC	55.35
447012	26-Dec-24	WINDWOOD KNOLL APTS	748.63
447013	26-Dec-24	WOODBIDGE PINES APTS	873.60
447014	26-Dec-24	WOODBIDGE WILLOWS APARTMENTS	1,532.91
447015	26-Dec-24	XIANLIN FAN AND LIANHAI ZHANG	73.90
447016	26-Dec-24	XU, BOXIANG	926.97
447017	26-Dec-24	CONTINENTAL AMERICAN INSURANCE COMPANY	3,482.79
447018	26-Dec-24	Flores, Marco Antonio	56.28
447019	26-Dec-24	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	18.74
447020	26-Dec-24	AT&T CORP	32.53
447021	26-Dec-24	CALPINE CORPORATION	95,240.73
447022	26-Dec-24	JUST ENERGY SOLUTIONS INC.	78.27
447023	26-Dec-24	SOUTHERN CALIFORNIA EDISON COMPANY	157,364.98
<b>SUB-TOTAL IRWD WELLS FARGO CHECK AND IRWD WELLS FARGO CHECK NO PRINT DISBURSEMENTS</b>			<b>6,936,478.28</b>
1005020	5-Dec-24	Akiyoshi, Eric S (Eric)	180.00
1005021	5-Dec-24	Almazan, Robert (Chris)	54.27
1005022	5-Dec-24	Contreras, Joaquin	28.54
1005023	5-Dec-24	Estrada, Robert C	67.27
1005024	5-Dec-24	Hunting, Verowin Martin	281.99
1005025	5-Dec-24	Leon, Alberto	94.13
1005026	5-Dec-24	Marquez, Jesus	21.78
1005027	5-Dec-24	Martinez, Jose A IV (Jose)	16.87
1005028	5-Dec-24	Mori, Richard K (Rich)	16.35
1005029	5-Dec-24	Nguyen, Jeanny	45.42

IRVINE RANCH WATER DISTRICT  
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
1005030	5-Dec-24	Ramirez, Eric	92.72
1005031	5-Dec-24	Reed, Megan A	25.86
1005032	5-Dec-24	Rios, Elias L	32.83
1005033	5-Dec-24	Saldana, Michael	55.61
1005034	5-Dec-24	Valencia, Reynaldo (Rey)	29.41
1005035	5-Dec-24	Williams, Warren (Randy)	1,895.00
1005036	5-Dec-24	Zamora, Victor A	281.04
1005066	12-Dec-24	Anderson, Winston James	73.05
1005067	12-Dec-24	Cariker, Cody J (Cody)	14.07
1005068	12-Dec-24	Cervantes, Angel	26.80
1005069	12-Dec-24	Colston, James	151.42
1005070	12-Dec-24	Cunningham, Laura S	100.00
1005071	12-Dec-24	Garcia, Juan	250.00
1005072	12-Dec-24	Gulley, Dennis Richard	53.60
1005073	12-Dec-24	Hansen, Casey	26.80
1005074	12-Dec-24	Koenig, Timothy (Tim)	16.75
1005075	12-Dec-24	Lee, Sabrina	113.12
1005076	12-Dec-24	Ludwig, Jason	64.32
1005077	12-Dec-24	Valencia, Reynaldo (Rey)	104.03
1005078	12-Dec-24	Velez, Cameron Joseph	61.64
1005113	19-Dec-24	Aguilar, Alan C	87.66
1005114	19-Dec-24	Ancona, Roxanne	93.20
1005115	19-Dec-24	Barboza, Kyra	239.00
1005116	19-Dec-24	Bosley, Kelleen M	14.74
1005117	19-Dec-24	Bronstein, Louis (Lou)	41.67
1005118	19-Dec-24	Calderon, Alfonso	19.67
1005119	19-Dec-24	Compton, Christine A	115.14
1005120	19-Dec-24	Contreras, Joaquin	16.68
1005121	19-Dec-24	Cortez, Brian	56.95
1005122	19-Dec-24	Cunningham, Laura S	57.64
1005123	19-Dec-24	Daniel, Matthew (Matthew)	116.10
1005124	19-Dec-24	Estrada, Audie Nickolas	70.89
1005125	19-Dec-24	Estrada, Robert C	67.27
1005126	19-Dec-24	Haug, Jack Philip Ryan	43.42
1005127	19-Dec-24	Henton-Hall, Andrea T	32.68
1005128	19-Dec-24	Jakubas-Pufal, Dorota	25.46
1005129	19-Dec-24	Jordan, Dawn M (Dawn)	39.13
1005130	19-Dec-24	LaMar, Steven E	973.92
1005131	19-Dec-24	Leon, Alberto	37.65
1005132	19-Dec-24	Lopez, Miguel	22.52
1005133	19-Dec-24	Paulson, David	155.00
1005134	19-Dec-24	Pham, Amie	12.73
1005135	19-Dec-24	Ramirez, Miguel	100.76
1005136	19-Dec-24	Reinhart, Douglas J	226.20

IRVINE RANCH WATER DISTRICT  
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
1005137	19-Dec-24	Smithson, Christopher F (Christopher)	129.00
1005138	19-Dec-24	Swan, Peer	1,985.48
1005139	19-Dec-24	Velasco, Louis De Jesus	72.90
1005140	19-Dec-24	Vu, Johnny T (Johnny)	19.43
1005141	19-Dec-24	Withers, John B	79.40
1005142	19-Dec-24	Zamora, Victor A	57.42
1005173	26-Dec-24	Cariker, Cody J (Cody)	14.07
1005174	26-Dec-24	De Castro, Earl	32.03
1005175	26-Dec-24	Hansen, Casey	26.80
1005176	26-Dec-24	Haug, Jack Philip Ryan	63.42
1005177	26-Dec-24	Leon, Alberto	34.84
1005178	26-Dec-24	Marquez, Jesus	44.35
1005179	26-Dec-24	Martinez, Jose A IV (Jose)	17.75
1005180	26-Dec-24	Pulles, Margaret M (Margaret)	13.92
1005181	26-Dec-24	Reed, Megan A	51.72
1005182	26-Dec-24	Salazar, Kyle	129.94
1005183	26-Dec-24	Scagliotti, Lucas Matthew	95.21
1005184	26-Dec-24	Villella, Aaren	113.64
1005185	26-Dec-24	Vu, Johnny T (Johnny)	19.43
1005186	26-Dec-24	Zamora, Victor A	133.20
<b>SUB-TOTAL IRWD WELLS FARGO ACH FOR EXPENSE REPORTS</b>			<b>10,074.72</b>
1005037	5-Dec-24	ADAM'S FALCONRY SERVICE, LLC	4,500.00
1005038	5-Dec-24	ALEXANDER'S CONTRACT SERVICES, INC.	135,815.80
1005039	5-Dec-24	AMAZON CAPITAL SERVICES, INC.	8,649.17
1005040	5-Dec-24	CALIFORNIA BARRICADE RENTALS, INC.	18,018.00
1005041	5-Dec-24	CDW GOVERNMENT LLC	650.28
1005042	5-Dec-24	CITY OF IRVINE	193,752.99
1005043	5-Dec-24	COOMBS SERVICE GROUP	8,150.00
1005044	5-Dec-24	COUNTY OF ORANGE SANITATION DISTRICT	18,176.94
1005045	5-Dec-24	DEMARIA ELECTRIC MOTOR SERVICES, INC.	14,385.23
1005046	5-Dec-24	DRAKE TRAFFIC CONTROL SERVICES INC	9,300.00
1005047	5-Dec-24	GM SAGER CONSTRUCTION CO, INC.	79,000.00
1005048	5-Dec-24	HILL BROTHERS CHEMICAL COMPANY	13,515.83
1005049	5-Dec-24	LANDCARE HOLDINGS, INC.	165,097.97
1005050	5-Dec-24	LWP CLAIMS SOLUTIONS INC	2,333.00
1005051	5-Dec-24	MRO ELECTRIC & SUPPLY CO.	8,915.24
1005052	5-Dec-24	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	1,624,676.42
1005053	5-Dec-24	NEWPORT WINDOW MAINTENANCE INC	3,355.00
1005054	5-Dec-24	O.C. SUPERIOR CUSTOM CLEANING	4,652.00
1005055	5-Dec-24	OLIN CORPORATION	112,070.48
1005056	5-Dec-24	ORANGE COUNTY AUTO PARTS	861.15
1005057	5-Dec-24	PYRO-COMM SYSTEMS INC	1,520.00
1005058	5-Dec-24	RAM AIR ENGINEERING INC	20,783.18

IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
1005059	5-Dec-24	RED WING SHOE STORE	1,666.41
1005060	5-Dec-24	RINCON TRUCK CENTER INC.	1,981.03
1005061	5-Dec-24	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	45,013.40
1005062	5-Dec-24	SUKLE ADVERTISING INC.	275.00
1005063	5-Dec-24	TETRA TECH, INC	19,775.00
1005064	5-Dec-24	VSS SALES INC	17,922.74
1005065	5-Dec-24	WATERSMART SOFTWARE INC	16,894.88
1005079	12-Dec-24	ADAM'S FALCONRY SERVICE, LLC	1,800.00
1005080	12-Dec-24	AMAZON CAPITAL SERVICES, INC.	2,130.32
1005081	12-Dec-24	AQUA BEN CORPORATION	59,215.63
1005082	12-Dec-24	BOOYA, LLC	2,220.87
1005083	12-Dec-24	BRENNTAG PACIFIC INC.	45,700.79
1005084	12-Dec-24	CALIFORNIA BARRICADE RENTALS, INC.	3,279.00
1005085	12-Dec-24	CITY OF IRVINE	7,911.48
1005086	12-Dec-24	COUNTY OF ORANGE SANITATION DISTRICT	266.00
1005087	12-Dec-24	DRAKE TRAFFIC CONTROL SERVICES INC	2,555.00
1005088	12-Dec-24	EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.	4,180.75
1005089	12-Dec-24	FIDELITY SECURITY LIFE INSURANCE COMPANY	8,408.59
1005090	12-Dec-24	FLW, INC.	1,262.45
1005091	12-Dec-24	GM SAGER CONSTRUCTION CO, INC.	43,700.00
1005092	12-Dec-24	HILL BROTHERS CHEMICAL COMPANY	8,192.21
1005093	12-Dec-24	JCI JONES CHEMICALS, INC.	4,849.59
1005094	12-Dec-24	KRONICK MOSKOVITZ TIEDEMANN & GIRARD	1,302.00
1005095	12-Dec-24	MARK KADESH	10,821.00
1005096	12-Dec-24	MICROSOFT CORPORATION	48.00
1005097	12-Dec-24	OLIN CORPORATION	67,410.65
1005098	12-Dec-24	ORANGE COUNTY AUTO PARTS	1,670.46
1005099	12-Dec-24	ORIGIN CONSULTING LLC	6,315.00
1005100	12-Dec-24	PACIFIC PARTS & CONTROLS INC	5,870.56
1005101	12-Dec-24	PAPER DEPOT DOCUMENT DESTRUCTION LLC	330.00
1005102	12-Dec-24	PROBOLSKY RESEARCH LLC	14,375.00
1005103	12-Dec-24	PYRO-COMM SYSTEMS INC	1,365.00
1005104	12-Dec-24	RAM AIR ENGINEERING INC	27,492.50
1005105	12-Dec-24	REACH EMPLOYEE ASSISTANCE INC	1,097.60
1005106	12-Dec-24	RED WING SHOE STORE	644.39
1005107	12-Dec-24	RINCON TRUCK CENTER INC.	1,643.57
1005108	12-Dec-24	TETRA TECH, INC	235.00
1005109	12-Dec-24	VSS SALES INC	2,528.30
1005110	12-Dec-24	WATER TREATMENT CHEMICALS INC	19,107.00
1005111	12-Dec-24	WEST COAST SAFETY SUPPLY INC	2,482.84
1005112	12-Dec-24	YORKE ENGINEERING, LLC	4,138.99
1005143	19-Dec-24	ACCUSTANDARD, INC.	623.23
1005144	19-Dec-24	AMAZON CAPITAL SERVICES, INC.	1,992.87
1005145	19-Dec-24	APPLIED ENGINEERING CONCEPTS	1,382.50



IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
1005146	19-Dec-24	AQUATRAX LLC	7,640.00
1005147	19-Dec-24	ARAG NORTH AMERICA, INC.	546.50
1005148	19-Dec-24	C WELLS PIPELINE MATERIALS, INC	5,916.61
1005149	19-Dec-24	COLONIAL LIFE & ACCIDENT INSURANCE CO.	555.48
1005150	19-Dec-24	CONNELLY-GPM, INC	15,713.00
1005151	19-Dec-24	COTTONS POINT DESIGN, INC.	437.90
1005152	19-Dec-24	COUNTY OF ORANGE SANITATION DISTRICT	822,141.23
1005153	19-Dec-24	DRAKE TRAFFIC CONTROL SERVICES INC	2,720.00
1005154	19-Dec-24	FLW, INC.	1,392.60
1005155	19-Dec-24	GANAHL LUMBER CO.	2,541.57
1005156	19-Dec-24	GRISWOLD INDUSTRIES	14,819.96
1005157	19-Dec-24	HAAKER EQUIPMENT COMPANY	673.05
1005158	19-Dec-24	HILL BROTHERS CHEMICAL COMPANY	8,318.20
1005159	19-Dec-24	JCI JONES CHEMICALS, INC.	8,434.04
1005160	19-Dec-24	LANDCARE HOLDINGS, INC.	23,643.98
1005161	19-Dec-24	MERRIMAC PETROLEUM, INC.	26,495.86
1005162	19-Dec-24	MICROSOFT CORPORATION	490.87
1005163	19-Dec-24	OLIN CORPORATION	44,801.82
1005164	19-Dec-24	ORANGE COUNTY AUTO PARTS	1,590.93
1005165	19-Dec-24	PACIFIC PARTS & CONTROLS INC	1,597.62
1005166	19-Dec-24	RAM AIR ENGINEERING INC	9,043.96
1005167	19-Dec-24	RESOLUTE COMPANY	17,400.00
1005168	19-Dec-24	RINCON TRUCK CENTER INC.	2,017.75
1005169	19-Dec-24	RLG ENTERPRISES, INC	269.09
1005170	19-Dec-24	SMARTFISH CORP	300.00
1005171	19-Dec-24	TETRA TECH, INC	53,625.00
1005172	19-Dec-24	WESTAMERICA COMMUNICATIONS, INC.	660.00
1005187	26-Dec-24	A&Y ASPHALT CONTRACTORS, INC.	163,777.00
1005188	26-Dec-24	ADAM'S FALCONRY SERVICE, LLC	2,100.00
1005189	26-Dec-24	AECOM TECHNICAL SERVICES, INC.	2,490.00
1005190	26-Dec-24	AMAZON CAPITAL SERVICES, INC.	722.29
1005191	26-Dec-24	BRENNTAG PACIFIC INC.	7,166.13
1005192	26-Dec-24	CALIFORNIA BARRICADE RENTALS, INC.	9,117.50
1005193	26-Dec-24	CAROLLO ENGINEERS, INC	9,465.00
1005194	26-Dec-24	CDW GOVERNMENT LLC	2,580.79
1005195	26-Dec-24	CENTROID SYSTEMS, INC.	15,127.50
1005196	26-Dec-24	CONSERV CONSTRUCTION INC.	3,775.00
1005197	26-Dec-24	DEMARIA ELECTRIC MOTOR SERVICES, INC.	32,449.22
1005198	26-Dec-24	EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.	3,324.00
1005199	26-Dec-24	GM SAGER CONSTRUCTION CO, INC.	75,100.00
1005200	26-Dec-24	GRISWOLD INDUSTRIES	24,838.57
1005201	26-Dec-24	HANSON BRIDGETT LLP	13,366.00
1005202	26-Dec-24	HILL BROTHERS CHEMICAL COMPANY	11,316.22
1005203	26-Dec-24	JCI JONES CHEMICALS, INC.	5,454.01

IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
1005204	26-Dec-24	LANDCARE HOLDINGS, INC.	72,942.67
1005205	26-Dec-24	LWP CLAIMS SOLUTIONS INC	15,454.00
1005206	26-Dec-24	MICHAEL BAKER INTERNATIONAL, INC.	326.00
1005207	26-Dec-24	MORGAN COMPANY	270.60
1005208	26-Dec-24	NATURALWELL, LLC	2,820.00
1005209	26-Dec-24	OLIN CORPORATION	67,500.81
1005210	26-Dec-24	ORANGE COUNTY AUTO PARTS	261.54
1005211	26-Dec-24	PILLSBURY WINTHROP SHAW PITTMAN LLP	8,541.50
1005212	26-Dec-24	RAM AIR ENGINEERING INC	2,977.50
1005213	26-Dec-24	REACH EMPLOYEE ASSISTANCE INC	1,097.60
1005214	26-Dec-24	RINCON TRUCK CENTER INC.	115.64
1005215	26-Dec-24	TETRA TECH, INC	9,037.50
1005216	26-Dec-24	W. W. GRAINGER, INC.	6,391.74
1005217	26-Dec-24	WSP USA ENVIRONMENT & INFRASTRUCTURE INC.	1,800.00
<b>SUB-TOTAL IRWD WELLS FARGO ACH DISBURSEMENTS</b>			<b>4,565,749.63</b>
2000886	5-Dec-24	CAPTIVE AUDIENCE MARKETING INC.	79.00
2000887	5-Dec-24	CULLIGAN OF SANTA ANA	22,185.00
2000888	5-Dec-24	FERGUSON US HOLDINGS, INC.	23,998.37
2000889	5-Dec-24	NOREX, INC.	4,700.00
2000890	5-Dec-24	PARKHOUSE TIRE, INC.	6,709.81
2000891	5-Dec-24	THOMPSON & PHIPPS INC	3,535.82
2000892	5-Dec-24	WORKHORSE DIVING AND SALVAGE, LLC	59,085.00
2000893	12-Dec-24	ACCUSOURCE, INC.	735.51
2000894	12-Dec-24	FERGUSON US HOLDINGS, INC.	7,294.32
2000895	12-Dec-24	IDEXX DISTRIBUTION, INC	8,288.13
2000896	12-Dec-24	POLYDYNE INC	89,811.78
2000897	12-Dec-24	RESOLUTE COMPANY	5,800.00
2000898	12-Dec-24	TILLEY CRANE INSPECTION SERVICE CO., INC.	2,450.00
2000899	12-Dec-24	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	6,823.63
2000900	19-Dec-24	FERGUSON US HOLDINGS, INC.	4,231.76
2000901	19-Dec-24	THERMO ELECTRON NORTH AMERICA LLC	103,509.44
2000902	19-Dec-24	THOMPSON & PHIPPS INC	12,187.07
2000903	19-Dec-24	TILLEY CRANE INSPECTION SERVICE CO., INC.	350.00
2000904	19-Dec-24	UCT, LLC	1,032.92
2000905	26-Dec-24	FERGUSON US HOLDINGS, INC.	4,284.10
2000906	26-Dec-24	INNOVATIVE MACHINE TOOL REPAIR LLC	4,978.34
2000907	26-Dec-24	THOMPSON & PHIPPS INC	1,466.93
<b>SUB-TOTAL IRWD WELLS FARGO PC</b>			<b>373,536.93</b>
100240	5-Dec-24	BANK OF AMERICA	178,330.85
100241	5-Dec-24	CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION	183.00
100242	5-Dec-24	U.S. BANK NATIONAL ASSOCIATION	72,981.51
100243	12-Dec-24	CHICAGO TITLE COMPANY	55.75

IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR DECEMBER 2024

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIER	PAYMENT AMOUNT
100244	12-Dec-24	SUMITOMO MITSUI BANKING CORPORATION	66,822.41
100245	12-Dec-24	U.S. BANK NATIONAL ASSOCIATION	32,052.45
100246	26-Dec-24	WELLS FARGO BANK, N.A.	7,228.38
100247	30-Dec-24	GROUNDWATER BANKING JOINT POWERS AUTHORITY	750,000.00
<b>SUB-TOTAL IRWD WELLS FARGO WIRE DISBURSEMENTS</b>			<b>1,107,654.35</b>
16099	12-Dec-24	FRANCHISE TAX BOARD	98,469.10
16100	12-Dec-24	CALPERS	314,597.61
16101	12-Dec-24	INTERNAL REVENUE SERVICE	293,595.65
16102	12-Dec-24	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	3,539.83
16103	12-Dec-24	EMPLOYMENT DEVELOPMENT DEPARTMENT	21,858.96
16104	12-Dec-24	CALPERS	735,561.83
16105	12-Dec-24	BANK OF AMERICA MERRILL LYNCH	92,667.68
16106	12-Dec-24	CHARD SNYDER & ASSOCIATES, INC.	32,198.42
16107	12-Dec-24	EMPOWER RETIREMENT, LLC	187,346.84
16108	12-Dec-24	PAYMENTUS CORPORATION	10,581,043.26
16109	19-Dec-24	EMPOWER RETIREMENT, LLC	216,047.48
16110	19-Dec-24	FRANCHISE TAX BOARD	102,507.05
16111	19-Dec-24	INTERNAL REVENUE SERVICE	306,070.71
16112	19-Dec-24	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	3,539.83
16113	19-Dec-24	EMPLOYMENT DEVELOPMENT DEPARTMENT	21,809.00
16114	19-Dec-24	CHARD SNYDER & ASSOCIATES, INC.	17,678.69
16115	26-Dec-24	CALPERS	340,897.63
16116	26-Dec-24	EMPOWER RETIREMENT, LLC	1,333.25
<b>SUB-TOTAL IRWD BOFA WIRE DISBURSEMENTS</b>			<b>13,370,762.82</b>
<b>SUB-TOTAL BOFA AND WELLS FARGO CHECK AND ELECTRONIC DISBURSEMENTS</b>			<b>26,364,256.73</b>
445762	2-Dec-24	YU, JUNJIE	435.75
446037	2-Dec-24	BOOYA, LLC	2,220.87
446567	11-Dec-24	BOOYA, LLC	2,220.87
2000875	18-Dec-24	RESOLUTE COMPANY	5,800.00
2000897	18-Dec-24	RESOLUTE COMPANY	5,800.00
<b>SUB-TOTAL BOFA AND WELLS FARGO CHECK AND ELECTRONIC ISSUED AND VOIDED IN DECEMBER 2024</b>			<b>16,477.49</b>
<b>NET</b>			<b>26,347,779.24</b>

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Exhibit "E"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

December  
2024

	AMOUNT	VENDOR	PURPOSE
12/13/2024	1,324,438.73	BANK OF AMERICA	ACH Payments for Payroll
12/27/2024	1,323,606.61	BANK OF AMERICA	ACH Payments for Payroll
	<u><u>\$2,648,045.34</u></u>		

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Exhibit "F"

**IRWD Gov Code 53065.5 Disclosure Report**

Payment or Reimbursements for Individual charges of \$100 or more per transaction for services or product received.

01-DEC-24 to 31-DEC-24

NAME	CHECK NO.	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Akiyoshi, Eric	1005020	5-Dec-24	180.00	Other(Misc)	Professional Engineer License Renewal
Barboza, Kyra	1005115	19-Dec-24	239.00	Membership	CWEA renewal
Cunningham, Laura	1005070	12-Dec-24	100.00	Other(Misc)	OCPAA San Jose luncheon
Garcia, Juan	1005071	12-Dec-24	125.00	Certification	AWWA - California-Nevada Secion - Water Use Efficiency 1
Garcia, Juan	1005071	12-Dec-24	125.00	Certification	Irrigation Association renewal
Hunting, Verowin Martin	1005024	5-Dec-24	281.99	Lunch <30	Team Building luncheon for Dept. 830 - 8 attendees
LaMar, Steve	1005130	19-Dec-24	456.59	Auto Rental	Attended California Council of Envionmental & Economic Balance 2024, Olympic Valley, CA - July 7-11, 2024
LaMar, Steve	1005130	19-Dec-24	125.00	Parking Fee	Long Beach Airport Parking 5 days. Calif. Council of Environmental & Economic Balance 2024, Olympic Valley, CA
LaMar, Steve	1005130	19-Dec-24	101.17	Mileage	Roundtrip to Annual Forecast Informed Reservoir Operations (FIRO) Colloquium, La Jolla, CA - August 6-8, 2024
LaMar, Steve	1005130	19-Dec-24	111.22	Mileage	Roundtrip to Urban Water Institute Annual Summit/Fall Conference, San Diego, CA - August 21-23, 2024
Lee, Sabrina	1005075	12-Dec-24	113.12	Other(Misc)	Safety shoe allowance
Paulson, David	1005133	19-Dec-24	155.00	Certification	SWRCB Water Distribution Grave V
Reinhart, Doug	1005136	19-Dec-24	108.00	Mileage	Roundtrip to Urban Water Institute Annual Summit/Fall Conference, San Diego, CA - August 21-23, 2024
Smithson, Christopher	1005137	19-Dec-24	129.00	Other(Misc)	Dulce Rocha first day lunch celebration with Enrique, Debra, Vlad, Elizabeth Pham and Christopher
Swan, Peer	1005138	19-Dec-24	494.46	Mileage	Rountrip to California Association of Sanitation Agencies 2024 Annual Summer Conf., Monterey, CA - July 30-August 2, 2024
Swan, Peer	1005138	19-Dec-24	399.00	Lodging	California Association of Sanitation Agencies 2024 Annual Summer Conf., Monterey, CA - July 30, 2024
Swan, Peer	1005138	19-Dec-24	399.00	Lodging	California Association of Sanitation Agencies 2024 Annual Summer Conf., Monterey, CA - July 31, 2024
Swan, Peer	1005138	19-Dec-24	399.00	Lodging	California Association of Sanitation Agencies 2024 Annual Summer Conf., Monterey, CA - August 1, 2024
Swan, Peer	1005138	19-Dec-24	116.98	Mileage	Roundtrip to Urban Water Institute Annual Summit/Fall Conference, San Diego, CA - August 20-23, 2024
Williams, Randy	1005035	5-Dec-24	1895.00	Registration Fees	RSA Conference North American, San Francisco, CA - April 27 - May 1, 2025
Zamora, Victor	1005036	5-Dec-24	191.17	Other(Misc)	Shadetree volunteer refreshments reimbursement
<b>Total Amount:</b>			<b>\$6,244.70</b>		

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January 27, 2025  
Prepared by: V. Li  
Submitted by: C. Smithson / N. Adly  
Approved by: Paul A. Cook *PA.C.*

CONSENT CALENDAR

FISCAL YEAR 2024-25 IRWD GUIDING PRINCIPLES SCORECARD

SUMMARY:

The IRWD Guiding Principles Scorecard through the second quarter of Fiscal Year (FY) 2024-25 is provided as Exhibit “A”. This document reflects the critical performance measures that gauge the District’s key business objectives, based on the Board-adopted Guiding Principles.

BACKGROUND:

IRWD’s Guiding Principles Scorecard is based on four Board-adopted Guiding Principles used to achieve its vision. These principles relate to 1) Customer Service, 2) Resource Management, 3) Employee Development, and 4) Community Leadership. The Scorecard includes measures that reflect operating performance, financial, customer and other key measures that provide an overview of the ongoing operations of IRWD. Staff has also included additional detailed information on certain selected key indicators.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

Exhibit “A” – IRWD Guiding Principles Scorecard

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Exhibit "A"  
**IRVINE RANCH WATER DISTRICT**

**Guiding Principles Scorecard**

Through the Second Quarter of Fiscal Year 2024-25

**Customer Service**

We are dedicated to delivering superior service to our customers.

Measure	Last Year	This Year
Customer Satisfaction	96%	92%
Electronic Payments Received	88%	89%
Customer Contacts	41,300	38,659
Delinquent Customers on Payment Arrangements	608	455
Residential Customers within Water Budget	82%	79%
All Customers within Water Budget	82%	78%
Occupancy Certificates	1,067	677
Verified Odor Complaints	2	8
Verified Water Quality Complaints	18	25

**Employee Development**

We are committed to recruiting and retaining top quality employees and to providing a workplace environment, training, and a recognition and reward system that enhances employee performance and satisfaction.

Measure	Last Year	This Year
Participation in 457 Retirement	88%	89%
Employee Retention	93%	91%
OSHA Days Away, Restricted, or Transferred per 100 employees	3.5	2.3
Cross Training Opportunities	16	18
Interns Employed	18	13
Recognition Awards Given	152	38

**Community Leadership**

We will share our resources with the community through education, policy leadership and employee involvement.

Measure	Last Year	This Year
Water Efficiency Website Page Views <sup>1</sup>	34	51
Billing Website Page Views <sup>1</sup>	53	48
External Media Impressions <sup>1,2</sup>	6,626	7,604
Student Participation in Water Education Programs	831	670
State Legislative & Regulatory Hours Spent	639	580
Outreach Events	19	20
Industry Awards and Honors	9	3

**Vision**

To achieve greater customer and employee satisfaction, increased reliability and resource conservation, and excellent external relationships with suppliers and others.

**Resource Management**

We are dedicated to providing, conserving, and maximizing the efficient use and reuse of water and renewable resources to the benefit of our customers and to enhance the environment.

Measure	Last Year	This Year
Planned Maintenance Completed	66%	64%
Potable Water Supply (AF)	29,616	31,914
Non-Potable Water Supply (AF)	19,918	19,476
Irvine Lake Storage (AF) <sup>3</sup>	9,983	8,922
Recycled Water Storage (AF) <sup>4</sup>	1,977	1,430
Sewage Treatment Cost per MG	\$3,617	\$3,806
Capital Spending vs Budget	39%	61%
AQMD Reported Incidents	7	1
Plant Incidents (NPDES)	4	2
Sewer Spills (Non-private)	0	1

<sup>3</sup>Total Water in Lake as of Quarter End

<sup>4</sup>As of Quarter End

<sup>1</sup> In Thousands

<sup>2</sup> Social Media / non-IRWD Websites

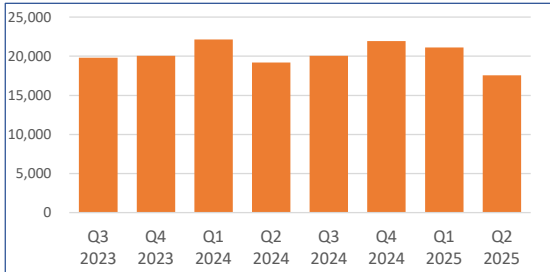
# IRVINE RANCH WATER DISTRICT

## Guiding Principles Closer Perspective

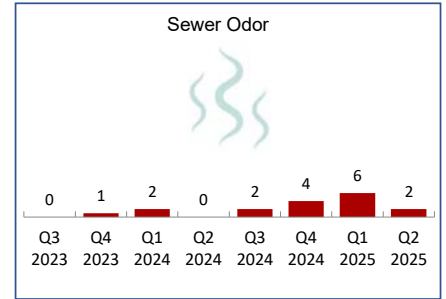
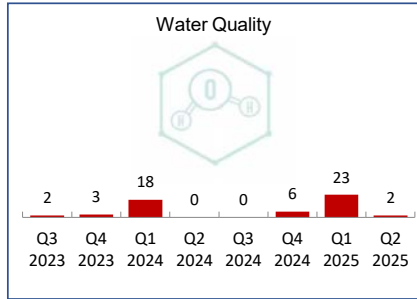
Through the Second Quarter of Fiscal Year 2024-25

### Customer Service

#### Customer Contacts



#### Verified Complaints

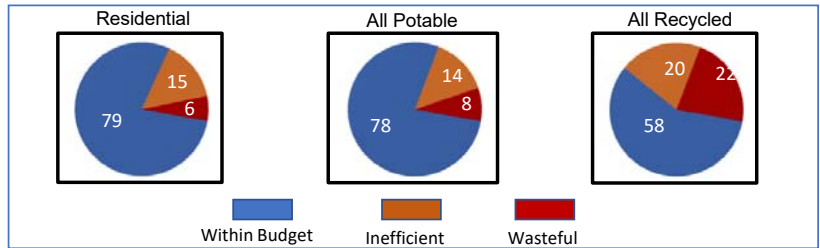


#### Certificates of Occupancy



	Apartment	Condominium	House
FY2023-24	431	415	221
FY2024-25	265	250	162

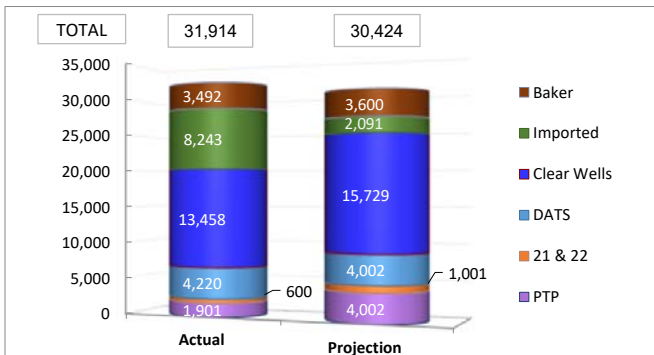
#### Percentage of Customers within Water Budget



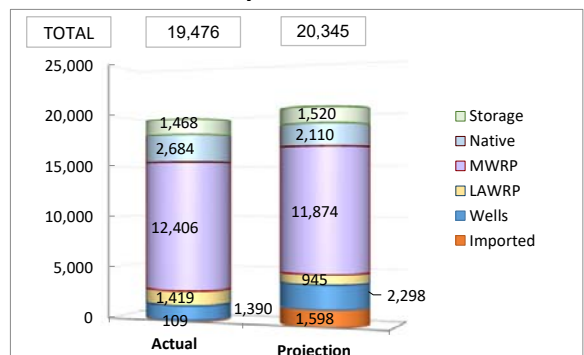
### Resource Management

#### Water Supply (in Acre Feet)\*

##### Potable



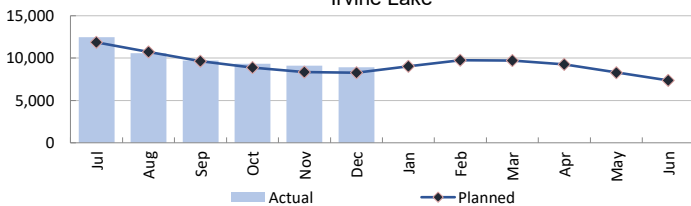
##### Recycled



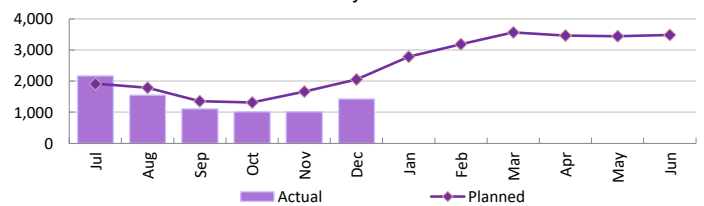
\* Baker was supplied with 288 AF of native water from Irvine Lake for IRWD usage. This is included in both potable and non potable production.

#### Reservoir Storage (in Acre Feet)

##### Irvine Lake



##### Recycled

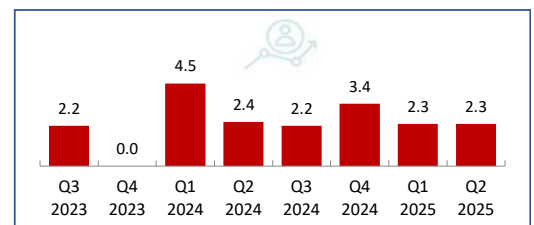


#### Regulatory Compliance

	Q3 2023	Q4 2023	Q1 2024	Q2 2024	Q3 2024	Q4 2024	Q1 2025	Q2 2025
AQMD	4	3	5	2	0	0	0	1
Plants	0	0	1	3	0	1	0	2
Sewer Spills	0	0	0	0	3	1	1	0

### Safety

#### Days Away, Restricted, and Transferred



January 27, 2025

Prepared by: L. Kaneshiro

Submitted by: N. Adly

Approved by: Paul A. Cook



## ACTION CALENDAR

### ORACLE EBS SOFTWARE VERSION UPGRADE

#### SUMMARY:

The Oracle E-Business Suite (EBS) is an enterprise resource planning (ERP) software system used for IRWD's critical business functions, including finance, payroll, purchasing and human resources. The proposed Oracle EBS software version upgrade is needed to comply with Oracle's new Error Correction Baseline support requirement, which will ensure that IRWD's Oracle EBS software continues to be stable, secure, and current. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with Centroid Systems, LLC in the amount of \$352,000 for the Oracle EBS software version upgrade.

#### BACKGROUND:

The Oracle Error Correction Baseline defines the oldest software version that Oracle will test against when creating new software patches, including security patches, statutory patches, annual patches, and other updates. Software versions older than the baseline will have greater risk of issues when new patches are installed, which may result in system outages and disrupt business operations. Staff productivity will also be reduced because of the additional time required to test and install new software patches.

IRWD's Oracle EBS software is current with its patches at this time. The proposed EBS software version upgrade is needed for future patches. The proposed version upgrade will be from version 12.2.5 to 12.2.14, which will comply with Oracle's new baseline requirement of 12.2.7. This version upgrade is a technical change and will have minimal impact to end users because the user interface will look and feel similar to the current version. Training will be provided as needed for rare instances.

In July 2024, a Request for Proposal (RFP) was publicly posted for qualified firms to propose Oracle EBS support services. Ten firms submitted proposals. Based on the RFP's scoring criteria of 50% for qualifications and experience and 50% for technical approach, the Evaluation Team selected Centroid Systems, LLC. The cost is \$352,000 and the duration is four months.

At the Board meeting, along with presenting staff's recommendation to proceed with this software upgrade, staff will discuss how this software upgrade will align with the ongoing assessment of IRWD's current and future ERP needs.

#### FISCAL IMPACTS:

The Oracle EBS software version upgrade will be paid from the Information Technology Operating Budget, Department 250, Account 585007.

ENVIRONMENTAL COMPLIANCE:

This item is not a project as defined in the California Environmental Quality Act Code of Regulations, Title 14, Chapter 3, Section 15378.

COMMITTEE STATUS:

This item was not reviewed by a Board Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH CENTROID SYSTEMS, LLC IN THE AMOUNT OF \$352,000 TO UPGRADE IRWD'S EBS SOFTWARE TO VERSION 12.2.14 TO MEET ORACLE'S NEW ERROR CORRECTION BASELINE REQUIREMENT.


LIST OF EXHIBITS:

None.

January 27, 2025

Prepared by: J. Moeder

Submitted by: K. Burton

Approved by: Paul A. Cook 

## ACTION CALENDAR

### TECHNICAL SERVICES AGREEMENT WITH UNITED STATES GEOLOGICAL SURVEY FOR SEISMIC MONITORING

#### SUMMARY:

IRWD's Dam Safety Program includes monitoring seismic activity in the region to inform the District's response post seismic events. Staff collaborated with United States Geological Survey (USGS) on an agreement where USGS will develop, maintain, and host a ShakeCast network to enhance IRWD's seismic monitoring capabilities for a not-to-exceed amount of \$238,911 over a five-year term. Staff recommends that the Board authorize the General Manager to execute a Technical Services Agreement with USGS for the development, maintenance, and hosting of IRWD's ShakeCast network.

#### BACKGROUND:

IRWD's Dam Safety Program currently uses ShakeMap to monitor seismic activity in the region of IRWD's dams. ShakeMap is a tool developed by USGS that utilizes a network of seismic recording instruments to ground-truth the accelerations in the area of the seismic event to then project the perceived ground motion intensity and estimate the potential damage. While this publicly available network has worked well for IRWD, ShakeCast, which is also a USGS developed tool, is the next level of monitoring that allows for the user to create specific notification thresholds, automatic notifications to user defined recipients, and post-earthquake situational awareness. One specific area of enhancement from IRWD's existing seismic monitoring process is that it eliminates the need for engineering staff to review and interpret ShakeMap data immediately after triggering seismic events and instead relies on the ShakeCast system to process the seismic data, determine if it meets user defined thresholds, and automatically notify recipients on the distribution list. Owners of critical infrastructure, such as California Department of Transportation and the Port of Long Beach, use ShakeCast for seismic monitoring of their critical facilities.

In January 2024, staff started exploratory discussions with USGS regarding using their services to develop, cloud-host, and maintain a ShakeCast network for IRWD. The ShakeCast network will initially focus on IRWD's six dams and may be expanded to include other critical facilities at IRWD such as infrastructure at Michelson Water Recycling Plant and other IRWD facilities that may pose a perceived seismic risk. Staff and IRWD's legal counsel have reviewed the Technical Services Agreement, which is included as Exhibit "A". Staff's presentation of the information outlined above is provided at Exhibit "B".

#### FISCAL IMPACTS:

The term of the agreement is for five years and requires IRWD to pay USGS a not-to-exceed amount of \$45,000 per year with a 3% per year escalation. The expenditures for this agreement

will be charged to the operating budget. The total expenditures at the end of the five-year term is in the not-to-exceed amount of \$238,911.

ENVIRONMENTAL COMPLIANCE:

This item is not a project as defined in the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15378.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on January 21, 2025.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A TECHNICAL SERVICES AGREEMENT WITH UNITED STATES GEOLOGICAL SURVEY IN THE NOT-TO-EXCEED AMOUNT OF \$238,911 FOR A FIVE-YEAR TERM FOR THE DEVELOPMENT, MAINTENANCE, AND HOSTING OF IRVINE RANCH WATER DISTRICT'S SHAKECAST NETWORK.

LIST OF EXHIBITS:

Exhibit "A" – Technical Services Agreement between IRWD and USGS  
Exhibit "B" – Draft PowerPoint Presentation



## TECHNICAL ASSISTANCE AGREEMENT

This Technical Assistance Agreement (“**Agreement**”) is entered into by and between U.S. Geological Survey (“**USGS**”), a Bureau of the Department of the Interior, through the offices of its Geologic Hazards Science Center, Golden, Colorado, hereinafter referred to as the “**USGS**” and Irvine Ranch Water District, Irvine, California, hereinafter referred to as “**IRWD**.” USGS and IRWD are sometimes herein referred to as a “**Party**” and collectively as the “**Parties**.”

Whereas the USGS is authorized to perform technical assistance with other Federal agencies, units of State or local government, industrial organizations, private corporations, public and private foundations, and nonprofit organizations (including universities) under the Stevenson-Wydler Act (15 U.S.C. § 3710a(b)(3)(A), as amended).

Whereas the USGS, and, in particular, its Natural Hazards Mission Area, provides alerts and warnings of geologic hazards, the National Earthquake Information Center, specifically has in its mission to provide actionable earthquake information on shaking and potential impact for critical users.

Whereas, IRWD has critical facilities that are potentially exposed to earthquake shaking and has the need of USGS expertise in rapid shaking assessments.

Whereas the project entitled "**ShakeCast Support for Irvine Ranch Water District**" is intended by the Parties to be mutually beneficial and to benefit the people of the United States.

Now, therefore, the Parties hereto agree as follows:

- 1. Statement of Work.** The statement of work is attached as Exhibit “A”. Under the statement of work, the USGS shall, among other things, create and operate an individual ShakeMap software application, called a ShakeCast “**Production Instance**,” which will be configured and customized for IRWD’s facilities, personnel, and desired notification content and will send IRWD’s users notifications. USGS shall also create a “**Backup Instance**,” which will consist of a mirrored copy of IRWD’s Production Instance such that if there is failure in the Production Instance then the backup can be activated. Together the Production Instance and Backup Instance, hereinafter referred to as the “**Instance**.”
- 2. Principal Investigator.** The USGS principal investigator (“**PI**”) for this project is Dr. David Wald, (303) 273-8441, wald@usgs.gov, 1711 Illinois St, Golden, CO. The PI for IRWD is Kevin Burton, P.E., (949) 453-5594, Burton@irwd.com, 15600 Sand Canyon Avenue, Irvine, California 92618. If a PI is unable to continue in this project, his sponsoring agency will make every effort to substitute a replacement acceptable to the other Party.
- 3. Title to Equipment.** There will be no joint property purchased because of the work outlined in the SOW. Each Party will provide its own equipment necessary to support its participation in the technical assistance. ShakeMap (and thus ShakeCast) utilize openly available seismic stations

maintained by other institutions. If IRWD installs and maintains openly available seismic stations, they too, would be available for ShakeMap.

4. **Term.** The technical assistance contemplated by this Agreement will commence on the effective date of this Agreement. The effective date of this Agreement shall be the date of the last signature by the Parties. The expiration date of this Agreement shall be five years from the last date of signature. The Agreement may be extended by mutual written agreement of the Parties for up to five additional years, in five-year increments, with each increment requiring mutual written agreement of the parties.

5. **Funding.**

(a) IRWD shall pay USGS an amount not to exceed \$45,000 annually, which amount will be increased by three percent each year on the anniversary of the effective date. USGS costs consist of (i) cloud-computing charges, (ii) personnel salaries for ShakeCast configuration, maintenance, and software and IT updates, (iii) personnel time for communications with IRWD concerning system configuration, testing, generating scenarios, and post-earthquake response, and (iv) USGS project management and overhead.

(b) The USGS does not require an advance.

(c) This agreement has been negotiated to be paid based on expenses incurred. The USGS will submit quarterly invoices to IRWD's administrative contact, identified in Article 9. Invoices not paid within 30 days of billing will bear Interest, and other fees required by Federal Law, at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

6. **Termination.** This Agreement may be terminated by either Party on 30 days written notice to the other. In the event of an early termination, the USGS shall be reimbursed for any completed work or work in progress on the “**Effective Date of Termination**” (i.e., when the Agreement terminates following the receipt of written notice from the other Party). Any unspent advanced funds will be returned to IRWD. The USGS shall also supply a copy of the IRWD ShakeCast Instance completed as of the Effective Date of Termination in the event of an early termination of the project.

7. **Publications/Reports.**

(a) Each Party is free to publish the non-proprietary or non-confidential information and data developed in the performance of this agreement. Before a Party submits the information and data for publication or otherwise intends to publicly release or disclose scientific information and data that is jointly developed, the Party shall have a review period of fifteen (15) business days to ensure that the draft publication or presentation does not contain Confidential or Proprietary Business Information. Upon expiration of the review period with no comments received from the other Party, the first Party will proceed with submission of the publication and presentation. The 15 days review period is provided as a courtesy to review the publications or presentations to ensure confidential or proprietary information is not disclosed and ensure that there is not inadvertent release of such information that could be used for a patent or invention application. All comments provided within the review period will be

forwarded to the contacts identified in Section 9. The Parties acknowledge that USGS is required to provide timely public access to the results of scientific information and data that does not contain sensitive protected information. This may include using machine-readable and open formats, data standards, and [metadata](#) for all new non-protected information created and collected in accordance with USGS Fundamental Science Practice regarding the review, approval and release of information set out in [Survey Manual Chapter 502.4 and 502.8, Fundamental Science Practices: Metadata for USGS Scientific Information Products Including Data](#), 502.7 and OMB M-13-13

- (b) Under the authority of 15 USC § 3710a (c)(7)(B), as amended, the Parties will have the opportunity, as part of the technical assistance, to identify protected research and development information, which is defined as information generated by the research which would have been proprietary information had it been obtained from a non-Federal entity. Each Party may designate as protected research and development information, any information generated by its own employees, and with the Agreement of the other Party, designate any information produced by the other Party's employees. Such protected research and development information shall be exempt from disclosure under 5 USC § 552(b)(4). After the protected research and development information period has expired, the USGS may publish the results of the research as part of open literature (journal and proceeding articles) or as USGS open file reports.
- (c) Generated information and results which have been created and marked as protected research and development information may be protected from release or disclosure for a period of two (2) years, unless an earlier date is agreed upon by the Parties.

#### **8. Proprietary Information/Intellectual Property/Background Intellectual Property.**

- (a) **“Proprietary Information”** means information which embodies trade secrets developed at private expense outside of this Agreement or which is confidential technical, commercial, or financial information under the Freedom of Information Act 5 U.S.C. § 552(b)(4).
- (b) All rights in intellectual property, which are defined as new/improved patents, copyrights, new inventions, patentable discoveries, biological materials, or software, created during the SOW, shall be the property or joint property of the organization employing the respective individual who made the invention or discovery. Any such inventions (**“subject inventions”**) shall be reported to the Principal Investigator within 60 days of creation, who in turn will notify their own management and the other Party's Principal Investigator. If the intellectual property is a joint invention not described in paragraph (b) below, the Parties agree to meet and negotiate a commercialization plan within 60 days of the receipt of a written request from the other Party.
- (c) For purposes of this Agreement, background intellectual property refers to intellectual property, which was in existence prior to or first produced outside of this Agreement and was developed by a Party either alone or with others, using one or more separate funding sources not related to the Agreement. Background intellectual property is not considered a subject invention. In this Agreement, IRWD is providing valuable patented/copyrighted material specified in the SOW which the USGS may/could value. If the joint efforts of the Parties build upon the preexisting background intellectual property of IRWD, IRWD may take ownership of the patent/copyright but must agree to negotiate a Government Purpose license or revenue sharing arrangement with the USGS that reflects USGS's contributions to the joint project.

9. **Notices.** Any notice required to be given or which shall be given under this Agreement shall be in writing and delivered by first-class mail to the Parties as follows:

**USGS:**

**Technical:**

Dr. David Wald  
USGS Denver Federal Center  
P.O. Box 25046 MS 966  
Denver, CO 80225  
wald@usgs.gov  
(303) 273-8441

**Administrative:**

USGS Denver Federal Center  
P.O. Box 25046 MS 966  
Denver, CO 80225

DUNS

[www.usgs.gov](http://www.usgs.gov)

**IRWD:**

**Irvine Ranch Water District Contract  
Representative:**

Kevin Burton, P.E.  
15600 Sand Canyon Avenue  
Irvine, California 92618  
[Burton@irwd.com](mailto:Burton@irwd.com)  
(949) 453-5594

10. **Independent Entity.** For purposes of this Agreement and all research and services to be provided hereunder, each Party shall be, and shall be deemed to be, an independent Party and not an agent or employee of the other Party. Each Party shall have exclusive control over its employees in the performance of the work. While in field locations, a Party's employees shall adhere to the safety and technical requirements imposed by the Party controlling the work site.

Neither Party shall have authority to make any statements, representations, or commitments of any kind, or take any action, which shall be binding on the other Party, except as may be explicitly provided for herein or authorized in writing. Neither Party may use the name of the other in advertising or other forms of publicity without the written permission of the other.

11. **Governing Law/Liability.**

(a) This Agreement is subject to interpretation under applicable State and Federal laws. Where there is inconsistency between the laws, Federal law is controlling. Each Party agrees to be responsible for the activities, including the negligence, of their employees. The USGS's responsibility for the payment of claims for loss of property, personal injury, or death caused by the negligence or wrongful act or omission of a USGS employee, while acting within the scope of their employment, is limited to provisions of the Federal Tort Claims Act, 28 USC §§ 2671-80.

(b) The USGS and IRWD make no express or implied warranty as to the conditions of the research, merchantability, or fitness for a particular purpose of the research, data, or resulting

product incorporating data developed and exchanged under the SOW. These provisions shall survive the termination of the Agreement.

- (c) The USGS shall not indemnify IRWD or any third party against any liabilities, costs, attorney's fees, expenses, damages, and losses (including any direct, indirect or consequential losses, loss of profit, loss of reputation and all interest, penalties, and legal costs and all other professional costs and expenses suffered or incurred by Collaborator or any third party arising from the work conducted under this technical assistance agreement.

12. **Force Majeure.** Neither Party shall be liable for any unforeseeable event beyond its control, not caused by the fault or negligence of such Party, which causes such Party to be unable to perform its obligations under this Agreement, and which it is unable to overcome by the exercise of due diligence including, but not limited to, flood, drought, earthquake, storm, fire, pestilence, lightning, and other natural catastrophes; epidemic, war, riot, civil disturbance, or disobedience; strikes, labor disputes, or failure, threat of failure, or sabotage; or any order or injunction made by a court or public agency. In the event of the occurrence of such a force majeure event, the Party unable to perform shall promptly notify the other Party. It shall further use its best efforts to resume performance as quickly as possible and shall suspend performance only for such period as is necessary as a result of the force majeure event.

13. **Entire Agreement.** This Agreement contains all the terms of the Parties and supersedes all prior Agreements and understandings related thereto. This Agreement can be changed or amended only by a written instrument signed by the Parties. Due to the specialized nature of the work, this Agreement is non-assignable by both Parties.

14. **Disputes.** The signatories to this Agreement shall expend their best efforts to amicably resolve any dispute that may arise under this Agreement. Any dispute that the signatories are unable to resolve shall be submitted to the Director of the USGS or his/her designee and the General Manager of IRWD or his/her designee for resolution. If no resolution is reached, the parties agree that the courts of the United States shall have jurisdiction over any claims arising out of work under this agreement.

15. **Miscellaneous Provisions.**

*(a) Anti-Deficiency Act.* Pursuant to the Anti-Deficiency Act, 31 U.S.C. §§ 1341 (a)(1)(A) and (B) and 31 USC § 1517(a), nothing herein contained shall be construed as binding the USGS to expend in any one fiscal year any sum in excess of its appropriations or funding in excess or what it has received for the collaborative work outlined in the SOW or involving the Federal government in any obligation to pay money before funds have been appropriated for that purpose unless otherwise allowed by law.

*(b) Import/Export.* The use and dissemination of information and materials exchanged under this Agreement will be in accordance with all U.S. laws and regulations, including those pertaining to national security and export control. Nothing in this Agreement shall be construed as a license to export information or to permit any disclosure in violation of law, regulation, or Department of Interior policy. The exporting Collaborator is responsible for obtaining any export licenses that may be required by U.S. Federal law.

(c) **Third Parties.** The Parties acknowledge and agree to allow disclosure of Proprietary Information or Background Intellectual property to third parties (such as, students, contractors, subcontractors and or consultants) or external collaborators for the purposes of carrying out this Agreement. If a Party engages a new third party to perform any portion of the SOW after the Effective Date of this Agreement, such Party will notify the other Party and provide information about the third-Party involvement within 7 days of engagement. However, these participants are not Parties to the Agreement. The Parties agree that they will comply with and advise any third parties they have engaged to conduct the Agreement activities to comply with, all applicable Executive Orders, statutes, and regulations. The Parties agree that they will ensure that third party participants are under written obligation not to disclose Proprietary Information or Background Intellectual Property, except as required by law or court order, before the third parties have access to any Proprietary Information or Background Intellectual Property. No foreign personnel shall be engaged by IRWD as a contractor, consultant, grantee or third-party collaborator for the performance of any work under this TAA without first identifying the individual, his country of origin, and the work to be performed to USGS so that USGS may determine whether the agency requires advanced approval by an authorized agency official before working with the foreign contractor, consultant, grantee or third-party collaborator, and whether any data, technology or products shared with or used by a foreign contractor, consultant, grantee or third-party collaborator as part of the technical assistance under this agreement are in accordance with all U.S. laws and regulations, including national security export controls and U.S. Department of State regulations and policies.

(d) The Exhibits, Forms, or Special Terms requested by IRWD are accepted to the extent that such terms do not conflict with applicable Federal laws and regulations.

16. **Survivability.** The following provisions shall survive the termination of this Agreement: 7. Publications/Reports, 8. Intellectual Property and Background Intellectual Property and 14. Disputes.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed on the last date listed below.

U.S. GEOLOGICAL SURVEY

Irvine Ranch Water District

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: Dr. Ryan D. Gold

Name: \_\_\_\_\_

Title: Geologic Hazards Cost Center Director

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

## Exhibit A: Statement of Work

### I. Background

The U.S. Geological Survey (“USGS”), under the auspices of the Advanced National Seismic System (“ANSS”), provides a variety of post-earthquake information products. ShakeCast is one such product. ShakeCast is software developed and managed by the USGS to facilitate automatic use of ShakeMap for critical facilities and utilities for their post-earthquake situational awareness and decision making. ShakeCast is nonproprietary and exists in the public domain. When a potentially damaging earthquake occurs, utility and other lifeline managers, emergency responders, and other critical users have an urgent need for information about the impact on their facilities, so they can make appropriate decisions and take quick actions to ensure safety and restore system functionality. Building off the ShakeMap system, ShakeCast is a fully automated system for retrieving specific information from ShakeMap products and sending it to critical users and triggering established post-earthquake response protocols. ShakeCast allows utilities, transportation agencies, and other large organizations to automatically determine the shaking value at their facilities, set thresholds for notification of inspection priorities (or damage levels; typically damage unlikely, moderate, or serious) for each facility, and then automatically notify (via cell phone or email) staff within their organizations who are responsible for those facilities so they can prioritize their response.

Since the shaking pattern is complex and the vulnerability of infrastructure varies greatly, ShakeCast can greatly increase the accuracy of post-earthquake inspection prioritization over simplified approaches. Irvine Ranch Water District (“IRWD”) is a prime candidate for deploying ShakeCast for quick evaluation of the seismic intensity at their facilities. IRWD has a total of six dams, five of which are large earth embankment dams and considered extremely high hazard by the California Department of Water Resources, Division of Safety of Dams. IRWD will initially utilize the existing ShakeMap instrumentation, combined with IRWD ShakeCast to estimate seismic shaking levels at each of its six dams. In the future, IRWD intends to expand the use of the IRWD ShakeCast instance to also monitor other critical IRWD facilities which may include water, sewage, and recycled water treatment facilities.

Recent advances in cloud-hosting and ShakeCast software improvements have made implementation and operation of ShakeCast less onerous. Yet, for a robust 24x7 operation of such a critical notification system, some significant technical in-house expertise is required by the user, and staff must be always available and aware of technical problems that typically come with operating any such system. As such, several critical users, including the U.S. Nuclear Regulatory Commission (“USNRC,” for NPPs) and the Veteran’s Administration (“VA,” for hospitals) both outsourced operations of their ShakeCast instance by funding USGS directly to operate (“host”) their respective ShakeCast systems in the USGS internal cloud computing environment. USGS provides alerts to interested NRC and VA personnel and provides interactions on the use of the system for real earthquakes, planning scenarios and overall system configuration.

## **II. Purpose**

USGS will host and maintain an operational ShakeCast Production Instance and Backup Instance for IRWD and provide guidance on its usage.

## **III. Objectives or Specific Aims**

The IRWD ShakeCast instance will be operated by USGS. It will provide alerts for all earthquakes relevant to IRWD, as defined by IRWD, and sent as ShakeCast reports via email to a list of IRWD recipients. USGS will also provide general troubleshooting and maintenance for IRWD ShakeCast, provide guidance on the use of ShakeCast, and provide earthquake scenarios for system testing and planning exercises.

## **IV. Term and Proposed Project Schedule/Milestones**

The USGS-hosted IRWD ShakeCast system will be fully operational and tested within 7 days of approval of this agreement.

## **V. IRWD's Expertise and Role**

IRWD's Point of Contact (“**POC**”) will be familiar with IRWD's emergency response needs and facilities. The POC will be aware of the overall benefits and limitations of the ShakeCast system through hands-on use of the product, and through review of USGS-developed documentation for ShakeCast. The collaboration POC will:

- Be the primary POC for USGS/ IRWD ShakeCast communications.
- Provide approval of the USGS-hosted ShakeCast instance after initial set up and when upgrades are performed.
- Provide feedback on draft versions and approval of final versions of USGS-developed system administrator and user guides.
- Provide feedback to the USGS ShakeCast team after significant earthquakes experienced.
- Maintain IRWD facility and fragility data, user information, and notification groups including threshold and geographic polygon settings.

## **VI. USGS' Expertise and Role**

- Implement USGS-hosted IRWD ShakeCast system (“**Instance**”) in the USGS cloud.
- Integrate new free-field seismic monitoring instruments that IRWD adds to its dams or critical infrastructure into the USGS seismic network and thus ShakeMap and IRWDs ShakeCast instance.
- Provide delivery of ShakeCast notifications and products (ShakeCast Reports) to IRWD designated personnel.
- Provide follow-up and guidance concerning timeliness and content of the messages following significant earthquakes.



- Provide maintenance, troubleshooting, upgrading, and configuration of the IRWD ShakeCast instance(s) for IRWD.
- Provide the technology and hosting infrastructure (server hardware, networking, software operating system, etc.) to host the IRWD ShakeCast instance, and keep technology infrastructure patches current.
- Temporarily host and maintain a testing environment for new releases of ShakeCast when new versions of the solution become available for evaluation by IRWD.
- Provide guidance on the use of ShakeCast for IRWD users.
- Help IRWD with ShakeMap/ShakeCast earthquake scenarios, as requested, with scenarios delivered from the existing USGS ShakeMap scenario collections or developed for the State of California.
- Provide a quarterly email report to IRWD POC summarizing events statistics, notifications, and system uptime of the IRWD ShakeCast instance during that quarter.
- Maintain current end-user and system administration documentation for the ShakeCast system, including system administrator and user guides, and provide custom versions of documentation for IRWD ShakeCast users.
- At any time during this agreement, or at its conclusion, facilitate IRWD hosting their own ShakeCast instance. USGS will package up a fully functional ShakeCast software instance in a Docker (or other suitable) container that can be executed as is. Such an instance will replicate the customized setup that USGS was running for IRWD up to that point. USGS will provide IRWD instructions for implementing and running the ShakeCast instance locally.

## **VII. Other Collaborative Activities**

Collaboration between USGS and IRWD may at times include development of enhancements for Shakecast as one-off, project-based requests by IRWD. Such enhancements will require definition of scope and cost separate from the responsibilities outlined above for this Technical Assistance Agreement, and the IRWD Contract Representative must approve any additional costs to IRWD for enhancements in advance of development and delivery. Enhancements will only be considered where it's determined by both parties that these features will benefit IRWD and other organizations using the ShakeCast product. It's not IRWD's intent that a custom instance of ShakeCast be developed for IRWD, so any IRWD-requested enhancements that are agreed upon will be made to the publicly available ShakeCast product. If IRWD begins real-time monitoring of their facilities that are not free-field (that is, structural monitoring seismometers that do not go into ShakeMap) additional discussion and project scoping will be required to incorporate such sensors into the IRWD ShakeCast Instance.

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1

### AGENDA

- Overview of IRWD's Dams
- Dam Safety Program Guidelines
- Seismic Monitoring
- Overview of ShakeCast System

*Sand Canyon Dam*

Irvine Ranch Water District logo

Aerial view of Sand Canyon Dam, showing the reservoir, the dam structure, and surrounding greenery and hills. A golf course is visible in the foreground.

2

## IRWD'S DAM SAFETY PROGRAM

- Integrated Risk Informed Decision Making (RIDM) in our Dam Safety Program
  - This is above and beyond the minimum requirements from the state.
- What is RIDM?
  - A method of dam safety evaluation that uses the likelihood of loading, system response given the loading, and consequences of failure to estimate risk.



Rattlesnake Dam



San Joaquin Dam



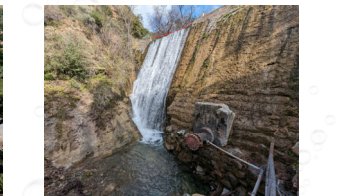
Santiago Creek Dam



Syphon Dam



Sand Canyon Dam



Harding Canyon Dam



3

## DAM SAFETY PROGRAM GUIDELINES

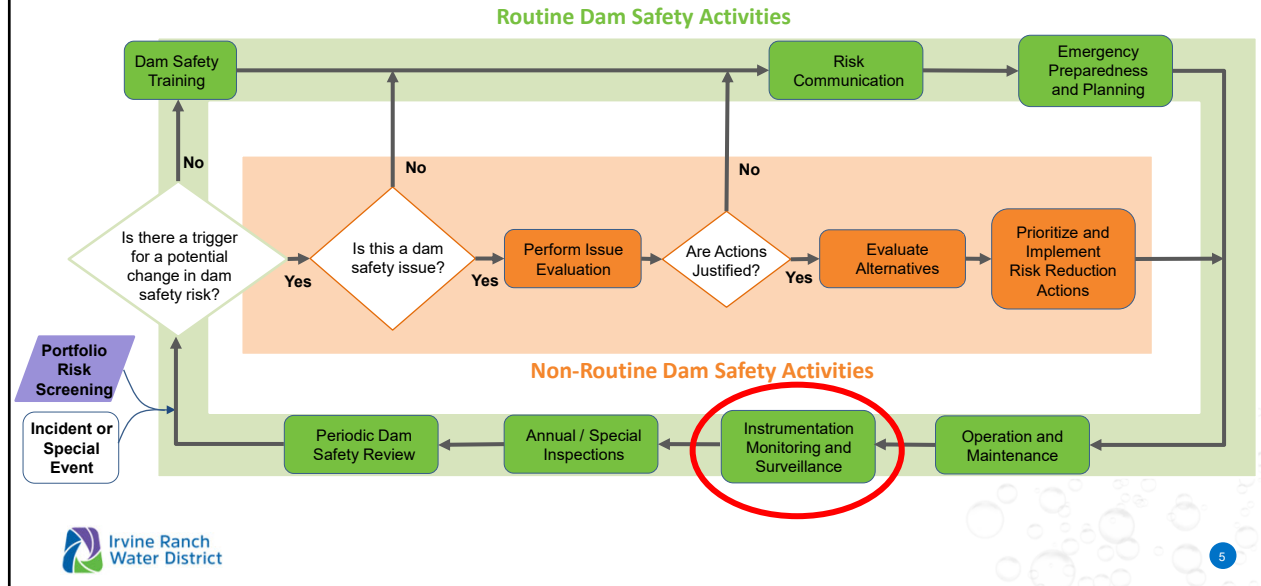
- *What do they do?*
  - Identifies roles and responsibilities
  - Establishes common vernacular
  - Outlines dam safety related tasks
  - Establishes courses of action
  - Tightens the oversight and response for IRWD's dams, a critical water resource facility

NUMBER	DESCRIPTION
00	Dam Safety Program Overview
<b>DSP Guidelines</b>	
01	Training
02	Vegetation and Animal Activity Management
03	Seismic Monitoring
04	Seepage & Piezometer Monitoring
05	Inspection Reports & Annual Surveillance Reports
06	Movement Monitoring
07	Maintenance
08	Emergency Preparedness and Planning
09	Non-routine Dam Safety Activities
10	Periodic Dam Safety Review (PDSR)
11	Data Management
<b>Emergency Action Plans &amp; Response Plans</b>	
RP - 1	Santiago Creek Dam Valve Replacement Plan
<b>Operational Considerations</b>	
IRRM -1	Santiago Creek Dam Interim Risk Reduction Measure
IRRM -2	Rattlesnake Dam Interim Risk Reduction Measure



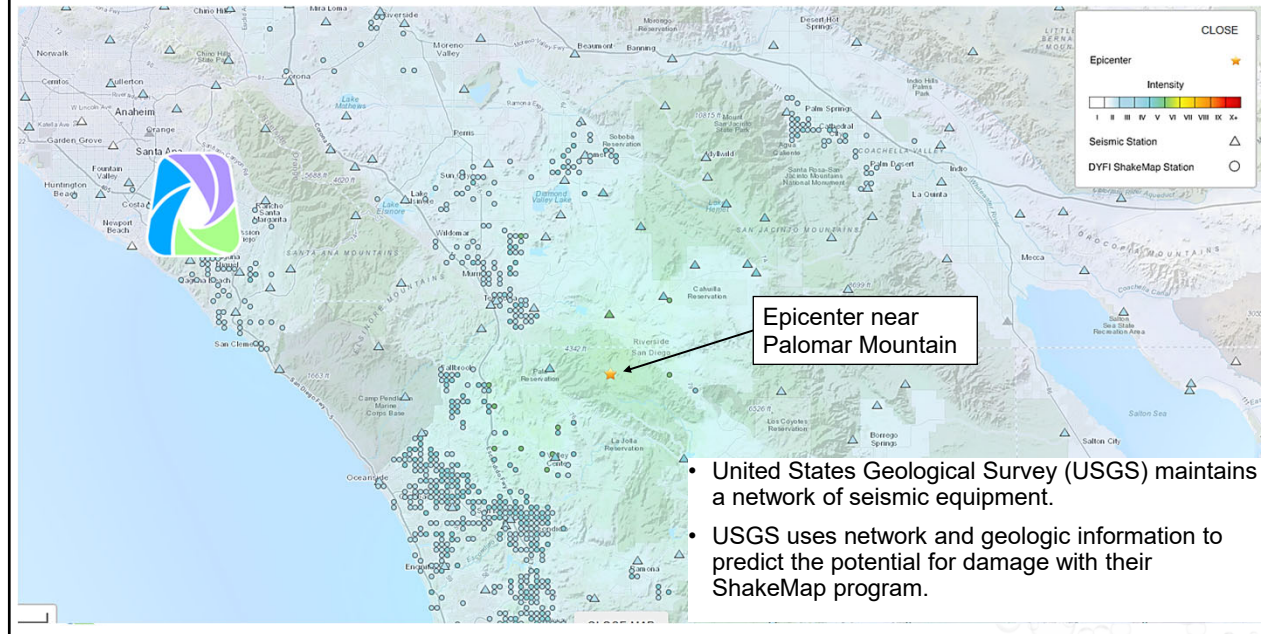
4

# DAM SAFETY PROGRAM ACTIVITIES



5

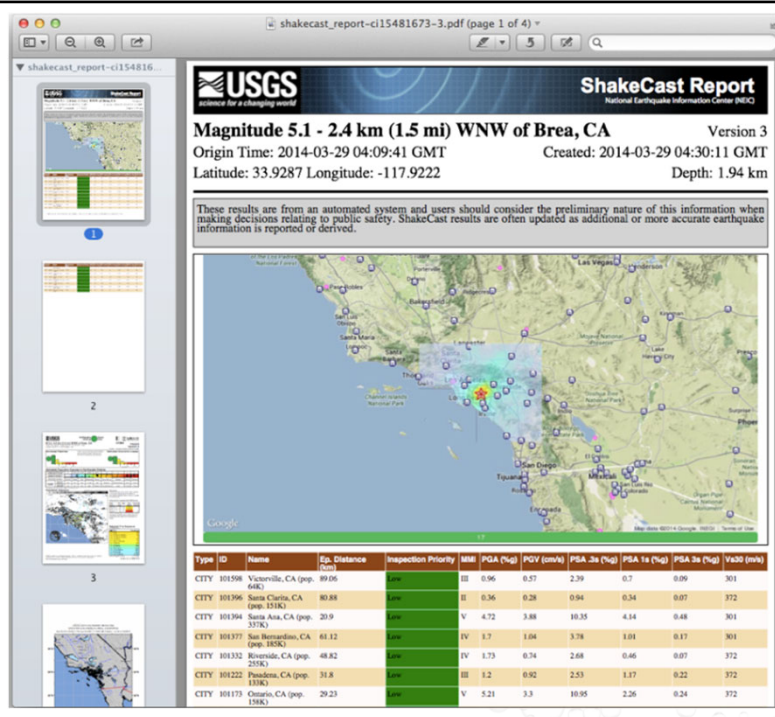
# SEISMIC MONITORING GUIDELINE



6

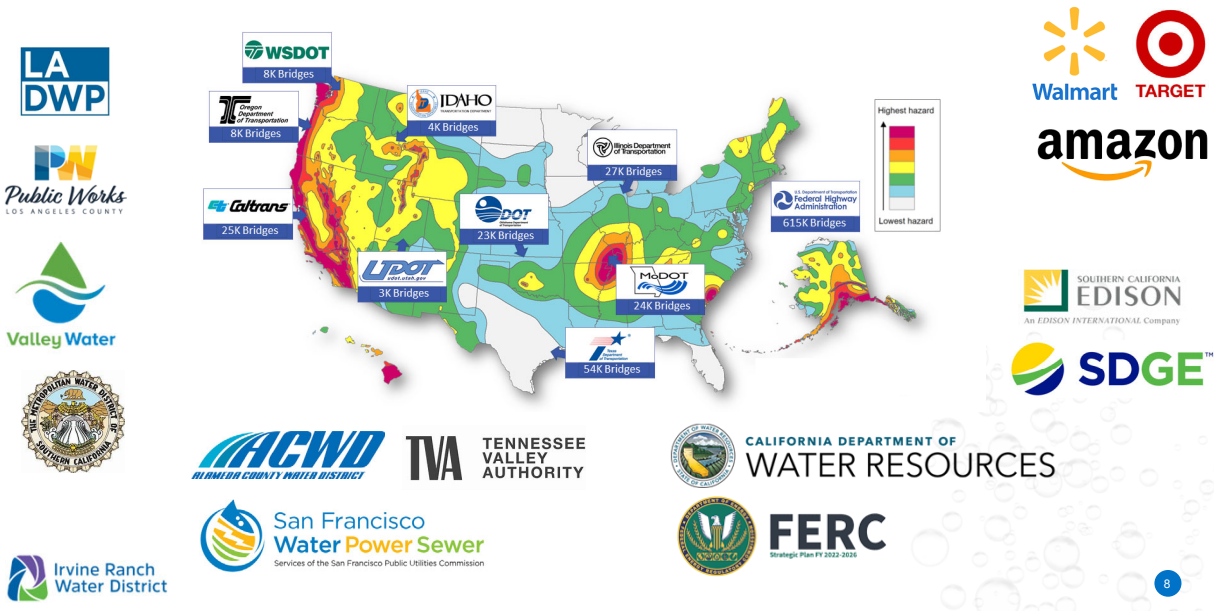
# SHAKECAST FEATURES

- Facility Assessment Email
  - Replaces need for staff to review data and make determination
  - Prioritizes responses to IRWD facilities (dams are initial focus)
- Summary Report
  - ShakeMap intensity overlayed onto IRWD critical facilities
  - Possibility for integrating owner specific instruments on facilities
- Webportal



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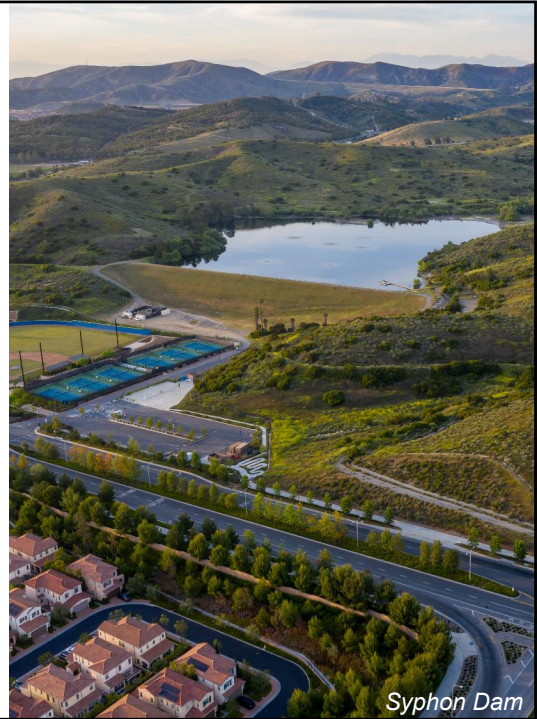
# SHAKECAST USERS



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## USGS/IRWD SHAKECAST AGREEMENT

- Agreement is for USGS to develop, maintain, and host IRWD's ShakeCast Network
- Agreement reflects internal collaboration among Engineering, Safety & Security, IT, Legal
- Five-year term, not-to-exceed annual cost of \$45,000 with 3% annual escalation



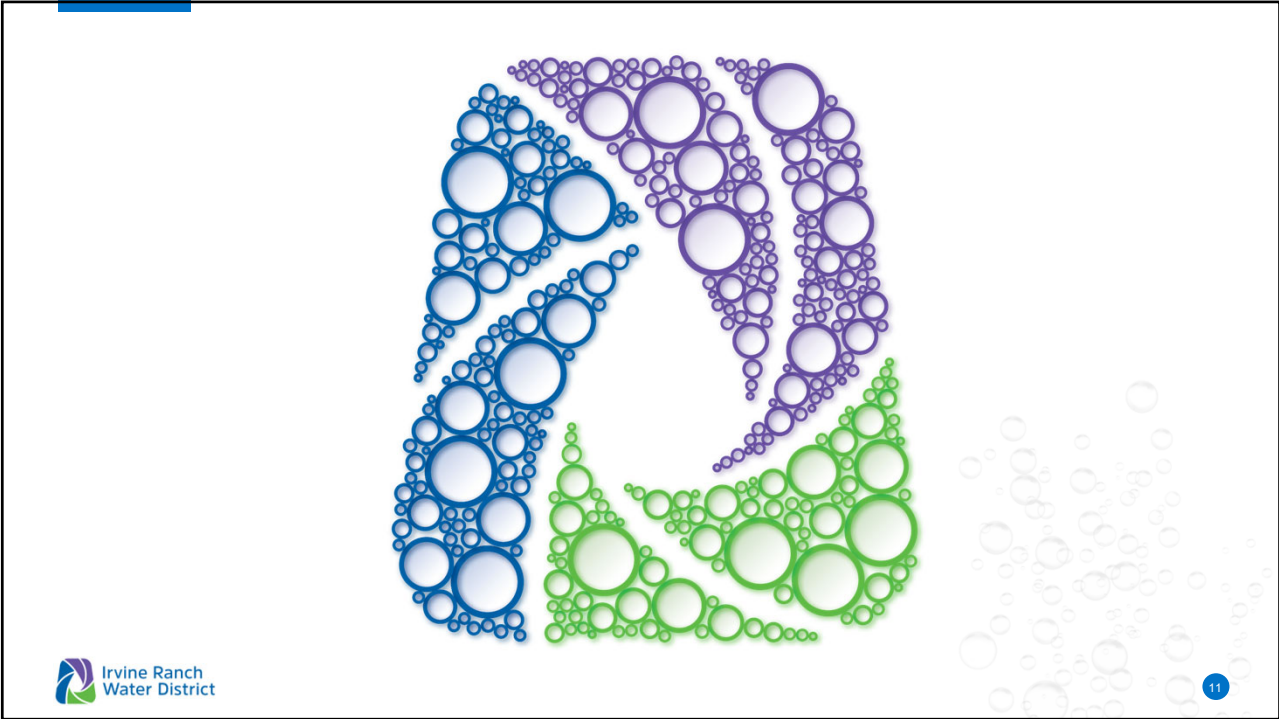
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## STAFF RECOMMENDATION

That the Board authorize the General Manager to execute a Technical Services Agreement with USGS in the not-to-exceed amount of \$248,911 for a five-year term for the development, maintenance, and hosting of IRWD's ShakeCast network.



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