

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

July 26, 2021

**CALL TO ORDER**      5:00 p.m.

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

**PUBLIC COMMENT NOTICE**

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 on the lobby table. If observing by Webex, please submit 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 before 12:00 p.m. on Monday, July 26, 2021.

This meeting will be held in-person at the District’s headquarters located at 15600 Sand Canyon Avenue, Irvine, California. Members of the public may attend in person. In addition, members of the public may observe the meeting via Webex and may submit comments via the “Chat” function. To observe via Webex, please use the link and information below

Via Web:

<https://irwd.webex.com/irwd/j.php?MTID=mc51610a04c5fdff65cfe8a7c74175508>

Meeting Number (Access Code): 146 495 0905

Meeting Password: JcHGMg7TN62

After joining the meeting, in order to ensure all persons can participate and observe the meeting, please select the “Call in” option and use a telephone to access the audio for the meeting by using the call-in information and attendee identification number provided.

*As courtesy to the other participants, please mute your phone when you are not speaking.*

**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.

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**COMMUNICATIONS TO THE BOARD**

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1. A. Written:

B. Oral:

2. 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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3. PRESENTATION TO THE BOARD

Staff will present a proclamation of service to retiree Ray Bennett to commend him for 12 years of dedicated and loyal service to IRWD.

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**CONSENT CALENDAR, ITEMS 4-11** (Next Resolution No. 2021-18)

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4. BOARD MEETING MINUTES

Recommendation: That the minutes of the July 12, 2021, Regular Board meeting be approved as presented.

5. RATIFY/APPROVE BOARD OF DIRECTORS' ATTENDANCE AT MEETINGS AND EVENTS

Recommendation: That the Board ratify/approve the meetings and events for Steven LaMar, Karen McLaughlin, Douglas Reinhart, Peer Swan, and John Withers, as described.

6. JUNE 2021 TREASURY REPORT

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Summary of Fixed and Variable Rate Debt, and Disclosure Report of Reimbursements to Board Members and staff, approve the June\ 2021 Summary Of Payroll ACH payments in the total amount of \$2,178,699, and approve the June 2021 Accounts Payable Disbursement Summary of Warrants 418630 through 419653, Workers' Compensation Distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$17,143,433.

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**CONSENT CALENDAR, ITEMS 4-11 (Continued)**

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7. IRWD STRATEGIC MEASURES

Recommendation: Receive and file.

8. REHABILITATION OF DYER ROAD WELLFIELD WELL NOS. 5, 14, AND 16 FINAL ACCEPTANCE

Recommendation: That the Board accept construction of rehabilitation of Dyer Road Wellfield Well Bos. 5, 14, and 16; authorize the General Manager to file a Notice of Completion; and authorize the release of retention 35 days after filing of the Notice of Completion for Projects 10914, 07089, AND 07091.

9. TURTLE RIDGE PIPELINES CATHODIC PROTECTION – FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the Turtle Ridge Pipelines Cathodic Protection, 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 Projects 07888 and 07889.

10. ADOPTION OF CORRECTED DISTRICT SCHEDULES OF POSITIONS AND SALARY RATE RANGES EFFECTIVE JUNE 14, 2021 THROUGH JUNE 30, 2021

Recommendation: That the Board adopt a resolution by title adopting corrected schedules of positions and salary rate ranges effective June 14, 2021, through June 30, 2021.

Reso. No. 2021-18

11. DISTRICT-WIDE EMERGENCY GENERATOR DIESEL FUEL STORAGE CONSULTANT SELECTION

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Psomas in the amount of \$428,713 for engineering design services for the District-wide Emergency Generator Diesel Fuel Storage, Projects 11536 and 11537.

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**ACTION CALENDAR**

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12. APPROVAL OF FINAL ENVIRONMENTAL IMPACT REPORT FOR THE SYPHON RESERVOIR IMPROVEMENT PROJECT

Recommendation: That the Board direct staff to incorporate into the draft findings as presented in this meeting such revisions as may be necessary to conform the findings to any information that may be received after preparation of said draft and prior to this action, including any changes to the Final Environmental Impact Report and any comments from the Board at this meeting, direct that the findings, as so revised, be attached to the below-mentioned resolution, and then adopt a resolution by title relative certifying the Final Environmental Impact Report, adopting the written findings, approving the Mitigation Monitoring and Reporting Program, approving the Syphon Reservoir Improvement Project and authorizing staff to file a Notice of Determination.

Reso. No. 2021-19

13. GROUNDWATER BANKING JOINT POWERS AUTHORITY CASH CALL FUNDING APPROVAL

Recommendation: That the Board approve the funding of the Groundwater Banking Joint Powers Authority's (GBJPA) cash call for \$450,000 and authorize staff to transfer funds in the amount of \$450,000 from IRWD to the GBJPA bank account to initiate the land acquisition process.

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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 factual 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.

14. General Manager's Report

15. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and provide information on relevant community events.

16. Directors' Comments

17. Adjourn.

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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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July 26, 2021  
Prepared and  
submitted by: L. Bonkowski  
Approved by: Paul A. Cook *PA*

CONSENT CALENDAR

BOARD MEETING MINUTES

SUMMARY:

Provided are the minutes of the July 12, 2021 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE JULY 12, 2021, REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – July 12, 2021 Minutes

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## EXHIBIT “A”

### MINUTES OF REGULAR MEETING – July 12, 2021

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Reinhart on July 12, 2021 in person at the District’s headquarters located at 15600 Sand Canyon Avenue, Irvine, California and via teleconference pursuant to the provisions of the Governor’s Executive Order N-08-21 due to COVID-19.

Directors Present: LaMar, Withers, Swan, and Reinhart

Directors Absent: McLaughlin

Also Present: General Manager Cook, Executive Director of Water Policy Weghorst, Executive Director of Technical Services Burton, Executive Director of Operations Chambers, Executive Director of Finance and Administration Clary, Director of Treasury and Risk Management Jacobson, Director of Water Quality and Regulatory Compliance Colston, Director of Information Services Malone, Director of Water Resources Sanchez, Director of Maintenance Mykitta, Director of Human Resources Mitcham, Director of Strategic Communications and Advocacy/Deputy General Counsel Compton, Secretary Bonkowski, General Counsel Collins, Consultant Newell, and other staff.

WRITTEN AND ORAL COMMUNICATIONS: None.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED: None.

### PUBLIC HEARING

#### SEWER CHARGES IN IRWD’S NEWPORT NORTH AREA

On June 24, 2019, the Board adopted Rates and Charges for Fiscal Year 2019-20 and 2020-2021. Considering the hardships to many IRWD customers created by the impacts of COVID-19, on May 26, 2020, the Board elected to defer the FY 2020-21 sewer rate increases scheduled to become effective in July 2020. The rate increase remains deferred, and no additional rate increases have been approved at this time. The current monthly sewer charges of \$26.10 for a residential single-family home and \$19.55 per unit for multiple family dwelling units remain in effect. Newport North customers have the same rate as other IRWD sewer customers, but the method of collection differs in that they pay their sewer fees on an annual basis by means of the County tax rolls.

President Reinhart declared this to be the time and place for a hearing on the sewer charge report for the Newport North area and declared the hearing open. He asked the Secretary how the hearing was noticed.

Secretary Bonkowski said that the report was filed with her on June 23, 2021 and notice of the filing of the report and the time and place of this hearing was published in the Daily Pilot on June 27 and July 4, 2021. A notice was also posted in the District office on June 23, 2021.

On MOTION by Swan, seconded by LaMar and unanimously carried, THE AFFIDAVIT OF POSTING AND THE PROOF OF PUBLICATION PRESENTED BY THE SECRETARY WAS RECEIVED AND FILED.

President Reinhart asked Legal Counsel to describe the nature of the proceedings. Legal Counsel Collins said that by resolution, the Board of Directors elected to have sewer charges for certain parcels collected on the tax roll each year in the same manner, by the same persons, and at the same time as, together with and not separately from, its general taxes, pursuant to Section 5473 et seq. of the California Health and Safety Code.

President Reinhart asked the Secretary whether there have been any written communications. She said there were none.

President Reinhart asked whether there is anyone present who wished to address the Board regarding the proposed collection of sewer charges on the tax roll. There was no one who wished to be heard. President Reinhart asked whether there were any comments or questions from members of the Board of Directors; there were none.

President Reinhart asked that the hearing will be closed. On MOTION by Swan, seconded by LaMar and unanimously carried, THE HEARING WAS CLOSED AND THE FOLLOWING RESOLUTION WAS ADOPTED BY TITLE:

RESOLUTION NO. 2021 - 14

RESOLUTION OF THE BOARD OF DIRECTORS  
OF IRVINE RANCH WATER DISTRICT ADOPTING THE  
SEWER CHARGE REPORT AND AUTHORIZING COLLECTION  
OF SEWER CHARGES ON THE TAX ROLL FOR IRWD'S  
NEWPORT NORTH AREA

CONSENT CALENDAR

On MOTION by Swan, seconded by Withers and unanimously carried, CONSENT CALENDAR ITEMS 4 THROUGH 10 WERE APPROVED AS FOLLOWS:

4. BOARD MEETING MINUTES

Recommendation: That the minutes of the June 28, 2021 Regular Board meeting be approved as presented.

5. RATIFY/APPROVE BOARD OF DIRECTORS' ATTENDANCE AT MEETINGS AND EVENTS

Recommendation: That the Board ratify/approve the meetings and events for Steven LaMar, Douglas Reinhart, Peer Swan, and John Withers, as described.

6. 2021 LEGISLATIVE AND REGULATORY UPDATE

Recommendation: Receive and file.

CONSENT CALENDAR (CONTINUED)

7. VARIANCE TO AGREEMENTS WITH KRONICK, MOSKOVITZ, TIEDEMANN & GIRARD AND EVERETT DOREY

Recommendation: That the Board authorize the General Manager to execute a variance to IRWD's Professional Services Agreement with Kronick, Moskovitz, Tiedemann & Girard related to rates, charges and fees increasing the not-to-exceed value of the contract by \$750,000 and extending the term through June 30, 2022, and authorize the General Manager to execute a variance to the letter of engagement with Everett Dorey for legal services related to tort matters and litigation increasing the not-to-exceed value of the contract by \$150,000.

8. FY 2021-22 OPERATING BUDGET VENDOR EXPENDITURE COMMITMENTS GREATER THAN \$200,000

Recommendation: That the Board approve the list of vendor commitments greater than \$200,000 based on approved FY 2021-22 operating budget expenditures.

9. LUMP SUM PAYMENT OPTION FOR EMPLOYER CONTRIBUTIONS FOR FY 2021-22 TO THE CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Recommendation: That the Board approve the lump sum payment for employer contributions to the California Public Employees' Retirement System (CalPERS) by making a one-time contribution of \$6,811,095 for IRWD's FY 2021-22 employer Unfunded Accrued Liability (UAL) contribution.

10. UTILITY BILL PRINTING, MAILING, AND ELECTRONIC BILL PRESENTMENT SERVICES CONTRACT EXTENSION

Recommendation: That the Board ratify approval of the two-year contract extension effective August 15, 2020 through August 15, 2022 with InfoSend Inc. for utility bill printing, mailing, and electronic bill presentment services in the amount of \$1,246,000.

ACTION CALENDAR

15 MG ZONE 1 RESERVOIR INTERIOR COATING AND IMPROVEMENTS BUDGET INCREASE AND CONSTRUCTION AWARD

The 15 Million Gallon Zone 1 Reservoir Interior Coating and Improvements project includes removal and replacement of the entire reservoir interior coating and portions of the exterior coating and replacement of the reservoir roof hatches, vent, reservoir cathodic protection system, and other miscellaneous accessories. The project also includes recoating the existing East Irvine Zone 1 to 3 booster pump station (BPS) and associated surge tank, which are located on the reservoir site.

On MOTION by Swan, seconded by Withers and unanimously carried, THE BOARD AUTHORIZED A BUDGET INCREASE FOR PROJECT 05761 IN THE AMOUNT OF \$1,271,500, FROM \$2,748,500 TO \$4,020,000, AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH PACIFIC HYDROTECH CORPORATION IN THE AMOUNT OF \$3,340,190 FOR THE 15 MG ZONE 1 RESERVOIR INTERIOR COATING AND IMPROVEMENTS, PROJECT 05761.

SETTING CONNECTION FEES AND PROPERTY TAXES FOR FISCAL YEARS 2021-22 AND 2022-23

Using a PowerPoint presentation, Manager of Strategic Planning and Analysis Smithson reviewed the District's approach to setting connection fees and property taxes. Mr. Smithson said that during the process, staff obtained and incorporated local developer input. He said that this year, staff is proposing to set the connection fees for two fiscal years, consistent with the two-year budget cycle. The changes to connection fees proposed for Fiscal Year (FY) 2021-22 are based on updates to IRWD's capital budget, updated developer projections, and adjustments to the Engineering News Record (ENR) construction cost index. He said that changes to the connection fees proposed for FY 2022-23 are based on estimated construction cost increases of 3% for all improvement districts (ID). He said that staff will revisit connection fees and rates at mid-cycle and update the Committee on capital updates, development timing / progression, and other changes that could affect tax rates and fees.

Mr. Smithson reviewed the key changes and said for capital IDs 112/212, there is a \$9.9 million increase, and in IDs 153/253, there is a \$16.3 million increase. He reviewed the development projections for these IDs noting that for IDs 112/212, 2,800 units would be reduced to 1,000, and IDs 153/253 projections would increase by over 400 units in future projections. Using charts, Mr. Smithson reviewed the proposed two-year connection fees and property tax rates by IDs. He further provided a snapshot of the analysis of changes within IDs.

Director Swan reported that this item was reviewed by the Finance and Personnel Committee on July 6, 2021. Directors LaMar and Withers complimented staff on their efforts. On MOTION by Swan, seconded by LaMar and unanimously carried, THE BOARD APPROVED REVISIONS TO CONNECTION FEES AND PROPERTY TAXES AS PRESENTED AND ADOPTED THE FOLLOWING RESOLUTIONS BY TITLE:

RESOLUTION NO. 2021 – 15

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT, ORANGE COUNTY, CALIFORNIA ADOPTING CHANGES TO CONNECTION FEES AS SET FORTH IN THE SCHEDULE OF RATES AND CHARGES IN EXHIBIT "B" OF THE RULES AND REGULATIONS OF IRVINE RANCH WATER DISTRICT FOR WATER, SEWER, RECYCLED WATER, AND NATURAL TREATMENT SYSTEM SERVICE

RESOLUTION NO. 2021 – 16

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT, ORANGE COUNTY, CALIFORNIA ESTABLISHING *AD VALOREM* TAX REVENUES FOR FISCAL YEAR 2021-22

RESOLUTION NO. 2021 – 17

RESOLUTION OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT AMENDING ALLOCATION OF *AD VALOREM* PROPERTY TAXES TO DEBT SERVICE, SUBJECT TO PLEDGE

## GENERAL MANAGER'S REPORT

General Manager Cook reported that there was one more COVID-19 case contracted over the 4<sup>th</sup> of July holiday. Mr. Cook said that the District would be opening the exercise rooms at both facilities this Wednesday, and that van pooling would go into effect at the end of the month.

He updated the Board on outstanding billing noting that 4,000 accounts are overdue with an outstanding debt of \$2.5 million. He said that 62,000 customers have signed up with the Paymentus online payment system. In response to Director Reinhart's inquiry relative to the two legislative bills related to debt caused by COVID-19, Ms. Compton provided a brief update.

He further noted that Director of Water Resources Sanchez was featured in the *Irvine Standard*.

## COMMUNITY UPDATE

Consultant Newell provided an update on last Thursday's bridge work by the District where water was shut off from 10:00 a.m. to 4:00 p.m. He further said that the pre-fire meeting on July 24 may need to be rescheduled as the planned speakers have not confirmed attendance.

## DIRECTORS' COMMENTS

Director LaMar reported on his attendance at a WACO meeting and several ACWA meetings.

Director Swan said he attended MWD's General Manager Kightlinger's going-away event, a Newport Chamber of Commerce "Wake Up" event where they discussed redistricting. In response to his inquiry regarding redistricting, Ms. Compton said that the Board will likely have its kick-off meeting at the December 13 Board meeting to consider various map options on new division boundaries based on the most recent census. Director Swan further said he attended a WACO meeting, a MWDOC Planning Committee meeting, a Southern California Dialogue Planning meeting, a MWDOC Workshop with MWD Directors, and an OCBC Government Affairs meeting.

Director Withers said he attended an ISDOC meeting along with his regular meetings. He said that he will also be attending an upcoming NWRI Board meeting and a MWDOC Water Policy Forum.

Director Reinhart reported that he attended a SOCWA Issues discussion, a WACO meeting, an OCWD Board meeting, and a MWDOC Board meeting.

## ADJOURNMENT

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

APPROVED and SIGNED this 26th day of July 2021.

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President, IRVINE RANCH WATER DISTRICT

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Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

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Claire Hervey Collins, General Counsel  
Hanson Bridgett LLP

July 26, 2021  
Prepared and  
submitted by: K. Swan  
Approved by: Paul A. Cook 

CONSENT CALENDAR

RATIFY/APPROVE BOARD OF DIRECTORS’  
ATTENDANCE AT MEETINGS AND EVENTS

SUMMARY:

Pursuant to Resolution 2006-29 adopted on August 28, 2006, the following events and meetings require approval by the Board of Directors:

Steven LaMar

July 15 NWRA Wester Water Table Talk Webinar: “30 by 30 Implications for Water Managers”  
July 22 NWRA Wester Water Table Talk Webinar: “Aging Infrastructure Solutions for Success”  
July 29 NWRA Wester Water Table Talk Webinar: “Unraveling the Regulatory Environment”  
August 5 NWRA Wester Water Table Talk Webinar: “Drought Response Resources”  
August 10 Southern California Water Coalition Webinar: *Stormwater Workshop – A Strategic Approach to Integrate Stormwater and Sewer System*

Karen McLaughlin

July 29 OCWD Webinar: *How Today’s Drought Conditions Affect Southern California*  
August 10 Southern California Water Coalition Webinar: *Stormwater Workshop – A Strategic Approach to Integrate Stormwater and Sewer System*

Douglas Reinhart

September 19-21 WateReuse Annual California Conference, Los Angeles

Peer Swan

July 1 Virtual Tribute to MWD’s Jeff Kightlinger  
July 9 Orange County Business Council Government Affairs Committee Meeting  
July 15 American River Issues Meeting with Executive Director of Water Policy  
July 23 Southern California Water Coalition Quarterly Luncheon: *Equity, Access, & Affordability*, Ontario

Consent Calendar: Ratify/Approve Board of Directors' Attendance at Meetings and Events

July 26, 2021

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John Withers

July 21

OCWA Webinar: *Doheny Desalination Project*

July 29

OCWD Webinar: *How Today's Drought Conditions Affect Southern California*

July 29

ISDOC Quarterly Virtual Luncheon

September 19-21

WateReuse Annual California Conference, Los Angeles

RECOMMENDATION:

THAT THE BOARD RATIFY/APPROVE THE MEETINGS AND EVENTS FOR STEVEN LAMAR, KAREN MCLAUGHLIN, DOUGLAS REINHART, PEER SWAN, AND JOHN WITHERS AS DESCRIBED HEREIN.

LIST OF EXHIBITS:

None.

July 26, 2021

Prepared by: O. Mendoza / J. Davis

Submitted by: R. Jacobson / C. Clary

Approved by: Paul A. Cook 

## CONSENT CALENDAR

### JUNE 2021 TREASURY REPORT

#### SUMMARY:

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

- A. The June 2021 Investment Summary Report. This Investment Summary Report conforms with the 2021 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A";
- B. The Summary of Fixed and Variable Rate Debt as of June 30, 2021, as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of June 30, 2021, as outlined in Exhibit "C";
- D. The June 30, 2021 Disbursement Summary of warrants 418630 through 419653, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$17,143,433, as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$2,178,699, as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board members and staff for June 2021, detailing payments or reimbursements for individual charges of \$100 or more per transaction, as outlined in Exhibit "F".

#### FISCAL IMPACTS:

As of June 30, 2021, the book value of the investment portfolio was \$396,030,626, with a 0.52% rate of return and a market value of \$396,733,173. Based on IRWD's June 30, 2021, quarterly real estate investment rate of return of 11.53%, the weighted average return for the fixed income and real estate investments was 2.72%.

As of June 30, 2021, the outstanding principal amount of fixed and variable rate debt was \$641,025,000. The monthly weighted average all-in variable rate was 0.35%. Including IRWD's weighted average fixed rate bond issues of 3.70% 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 2.90%.

Payroll ACH payments totaled \$2,178,699, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for June totaled \$17,143,433.

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 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 DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF, APPROVE THE JUNE 2021 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,178,699, AND APPROVE THE JUNE 2021 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 418630 THROUGH 419653, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$17,143,433.

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

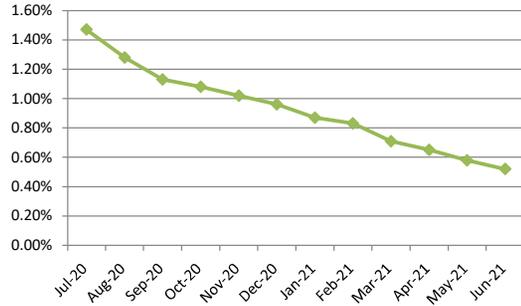
Exhibit "E" – Monthly Payroll ACH Summary

Exhibit "F" – Disclosure of Reimbursements to Board Members and Staff

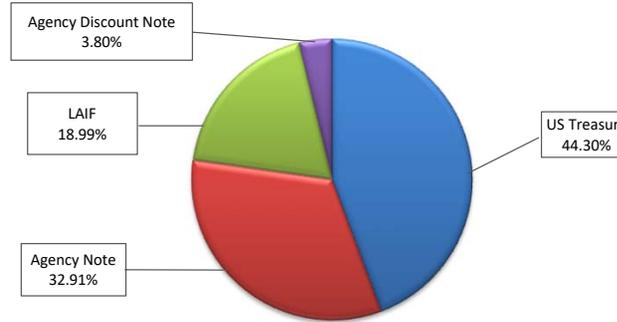
# Exhibit "A"

## Irvine Ranch Water District Investment Portfolio Summary June 2021

**Monthly Fixed Income Yield**



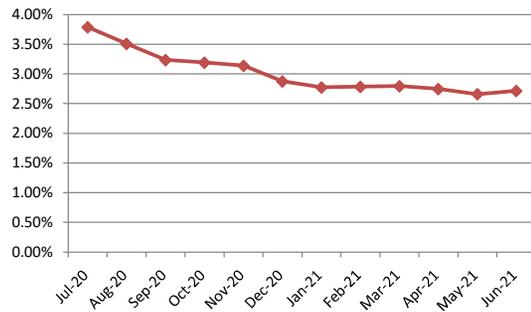
**Portfolio Distribution**



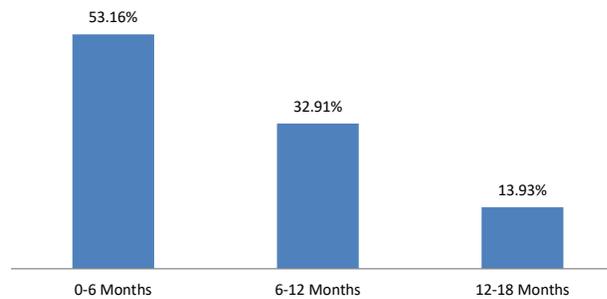
**Investment Summary**

Type	PAR	Book Value	Market Value
US Treasury	175,000,000	175,574,536	175,905,300
Agency Note	130,000,000	130,459,835	130,822,950
LAIF	75,000,000	75,000,000	75,006,223
Agency Discount Note	15,000,000	14,996,254	14,998,700
<b>Grand Total</b>	<b>395,000,000</b>	<b>396,030,626</b>	<b>396,733,173</b>

**Weighted Average Return  
Including Real Estate Portfolio**



**Maturity Distribution**



**Top Issuers**

Issuer	PAR	% Portfolio
US Treasury	175,000,000	44.30%
State of California Tsy.	75,000,000	18.99%
Fed Farm Credit Bank	65,000,000	16.46%
Fed Home Loan Bank	55,000,000	13.92%
Fed Natl Mortgage Assoc	15,000,000	3.80%
Fed Home Loan Mortgage Corp	10,000,000	2.53%
<b>Grand Total</b>	<b>395,000,000</b>	<b>100.00%</b>

IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

06/30/21

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> 6/30/2021	UNREALIZED <sup>(2)</sup> GAIN/(LOSS)
07/24/20			07/01/21		LAIF	State of California Tsy.	\$75,000,000		0.340%	\$75,000,000.00	\$75,000,000.00	75,006,222.75	6,222.75
12/31/20	NA	NA	07/01/21	Aaa/NR/NR	Treasury - Bill	US Treasury	10,000,000	0.090%	0.090%	9,995,450.00	10,000,000.00	10,000,000.00	
01/19/21	NA	NA	07/15/21	NR	Treasury - Bill	US Treasury	5,000,000	0.075%	0.076%	4,998,156.25	4,999,854.17	4,999,900.00	45.83
07/26/19	NA	NA	07/19/21	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.875%	1.927%	4,995,000.00	4,999,875.69	5,004,550.00	4,674.31
08/13/20	NA	NA	08/12/21	NR	FFCB - Discount Note	Fed Farm Credit Bank	10,000,000	0.140%	0.142%	9,985,844.44	9,998,366.67	9,999,500.00	1,133.33
08/13/20	NA	NA	08/13/21	Aaa/NR/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	0.125%	0.133%	9,999,220.00	9,999,908.11	10,000,200.00	291.89
08/01/19	NA	NA	08/31/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.125%	1.816%	4,929,687.50	4,994,363.91	5,008,950.00	14,586.09
03/10/21	NA	NA	09/09/21	NR	Treasury - Bill	US Treasury	10,000,000	0.045%	0.046%	9,997,712.50	9,998,850.00	9,999,100.00	250.00
09/17/20	NA	NA	09/17/21	Aaa/NA/NA	FHLB - Note	Fed Home Loan Bank	5,000,000	0.125%	0.132%	4,999,660.00	4,999,927.34	5,000,200.00	272.66
08/13/20	NA	NA	09/30/21	Aaa/AA+/NR	Treasury - Note	US Treasury	10,000,000	1.125%	0.133%	10,112,109.38	10,024,702.07	10,026,600.00	1,897.93
09/30/20	NA	NA	09/30/21	Aaa/NA/NA	FHLB - Note	Fed Home Loan Bank	10,000,000	0.125%	0.122%	10,000,336.80	10,000,083.97	10,000,600.00	516.03
08/13/20	NA	NA	10/07/21	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	1.375%	0.143%	10,141,500.00	10,033,016.67	10,034,900.00	1,883.33
10/11/19	NA	NA	10/15/21	Aaa/AA+/NR	Treasury - Note	US Treasury	5,000,000	2.875%	1.540%	5,131,640.63	5,018,984.91	5,040,850.00	21,865.09
10/22/19	NA	NA	10/15/21	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.400%	1.642%	4,976,500.00	4,996,559.39	5,019,400.00	22,840.61
10/29/20	NA	NA	10/19/21	Aaa/NR/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	0.125%	0.127%	9,999,800.00	9,999,938.03	10,001,400.00	1,461.97
10/27/20	NA	NA	10/26/21	NR	FFCB - Discount Note	Fed Farm Credit Bank	5,000,000	0.130%	0.132%	4,993,427.78	4,997,887.50	4,999,200.00	1,312.50
11/05/19	NA	NA	11/15/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.875%	1.610%	5,125,585.94	5,023,218.99	5,051,950.00	28,731.01
06/11/21	NA	NA	11/26/21	Aaa/NR/NR	Treasury - Bill	US Treasury	5,000,000	0.030%	0.030%	4,999,300.00	4,999,383.33	4,998,900.00	(483.33)
11/08/19	NA	NA	11/30/21	Aaa/AA+/NR	Treasury - Note	US Treasury	5,000,000	1.750%	1.680%	5,007,031.25	5,001,419.32	5,034,750.00	33,330.68
03/17/21	NA	NA	11/30/21	Aaa/AA+/NR	Treasury - Note	US Treasury	5,000,000	1.875%	0.057%	5,064,120.00	5,041,504.03	5,037,500.00	(4,004.03)
09/28/20	NA	NA	12/03/21	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.150%	0.120%	5,001,765.00	5,000,634.74	5,001,700.00	1,065.26
10/30/20	NA	NA	12/15/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.625%	0.127%	5,140,429.69	5,057,060.24	5,058,400.00	1,339.76
04/23/20	NA	NA	12/20/21	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	1.625%	0.309%	10,217,480.00	10,075,723.23	10,073,600.00	(2,123.23)
06/30/21	NA	NA	12/30/21	Aaa/NR/NR	Treasury - Bill	US Treasury	5,000,000	0.040%	0.041%	4,998,983.33	4,998,988.89	4,998,600.00	(388.89)
11/25/19	NA	NA	12/31/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.000%	1.619%	5,039,062.50	5,009,320.00	5,047,850.00	38,530.00
06/02/21	NA	NA	12/31/21	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	2.125%	0.027%	10,121,093.75	10,104,529.04	10,102,000.00	(2,529.04)
05/26/21	NA	NA	01/11/22	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	2.625%	0.031%	5,081,057.95	5,068,370.62	5,067,250.00	(1,120.62)
11/25/19	NA	NA	01/13/22	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	2.375%	1.635%	5,077,250.00	5,019,411.54	5,061,500.00	42,088.46
08/14/20	NA	NA	01/13/22	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	2.375%	0.147%	5,157,297.23	5,059,632.99	5,061,500.00	1,867.01
03/08/19	NA	NA	01/15/22	Aaa/AA+/NR	Treasury - Note	US Treasury	5,000,000	2.500%	2.460%	5,005,468.75	5,001,037.18	5,065,450.00	64,412.82
12/19/19	NA	NA	01/31/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.875%	1.641%	5,024,218.75	5,006,696.14	5,052,350.00	45,653.86
03/21/19	NA	NA	02/03/22	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	2.030%	2.361%	4,954,350.00	4,990,565.67	5,056,000.00	65,434.33
12/19/19	NA	NA	02/15/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.500%	1.652%	5,089,453.13	5,025,962.95	5,075,800.00	49,837.05
11/13/20	NA	NA	02/28/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.875%	0.139%	5,112,304.69	5,057,579.95	5,059,750.00	2,170.05
11/19/20	NA	NA	02/28/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.750%	0.126%	5,103,710.94	5,053,858.47	5,055,450.00	1,591.53
06/09/21	NA	NA	02/28/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.125%	0.051%	5,038,964.84	5,035,717.77	5,035,150.00	(567.77)
03/08/19	NA	NA	03/11/22	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	2.500%	2.549%	5,002,750.00	5,000,633.08	5,083,600.00	82,966.92
12/23/20	NA	NA	03/22/22	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	10,000,000	0.090%	0.090%	10,000,000.00	10,000,000.00	9,999,300.00	(700.00)
12/19/19	NA	NA	03/31/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.875%	1.645%	5,025,585.94	5,008,385.31	5,066,800.00	58,414.69
04/30/21	NA	NA	03/31/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	0.375%	0.056%	5,014,648.44	5,011,937.39	5,010,550.00	(1,387.39)
02/21/20	NA	NA	04/14/22	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.400%	1.414%	4,998,500.00	4,999,316.09	5,050,200.00	50,883.91
04/23/20	NA	NA	04/21/22	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	1.580%	0.320%	10,250,200.00	10,103,791.76	10,117,200.00	13,408.24
04/22/21	NA	NA	06/30/22	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	0.125%	0.082%	10,005,078.13	10,004,259.08	10,002,300.00	(1,959.08)
04/30/21	NA	NA	06/30/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	0.125%	0.082%	5,002,539.06	5,002,169.53	5,001,150.00	(1,019.53)
05/28/21	NA	NA	06/30/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	0.125%	0.064%	5,003,320.31	5,003,036.67	5,001,150.00	(1,886.67)
05/20/21	NA	NA	06/30/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.750%	0.065%	5,093,750.00	5,084,051.72	5,081,850.00	(2,201.72)
01/15/20	NA	NA	07/15/22	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.600%	1.594%	5,000,750.00	5,000,311.68	5,077,350.00	77,038.32
04/28/21	NA	NA	08/31/22	Aaa/NR/NR	Treasury - Note	US Treasury	5,000,000	0.125%	0.102%	5,001,562.50	5,001,358.42	5,000,200.00	(1,158.42)
04/28/21	NA	NA	09/09/22	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	2.000%	0.112%	5,128,632.30	5,112,134.37	5,112,500.00	365.63
04/22/21	NA	NA	10/31/22	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	0.125%	0.110%	10,002,343.75	10,004,783.58	9,995,300.00	(9,483.58)
05/20/21	NA	NA	11/30/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	0.125%	0.103%	5,001,647.15	5,001,523.39	4,996,700.00	(4,823.39)

IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

06/30/21

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> 6/30/2021	UNREALIZED <sup>(2)</sup> GAIN/(LOSS)
SUB-TOTAL							<u>\$395,000,000</u>			<u>\$397,146,280.60</u>	<u>\$396,030,625.56</u>	<u>\$396,733,172.75</u>	<u>\$702,547.19</u>
TOTAL INVESTMENTS							<u>\$395,000,000</u>			<u>\$397,146,280.60</u>	<u>\$396,030,625.56</u>	<u>\$396,733,172.75</u>	<u>\$702,547.19</u>
					Petty Cash					3,400.00			
					Ck Balance	Bank of America		ECR	0.19%	24,067,108.38			
										<u>\$421,216,788.98</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

Outstanding Variable Rate Debt	\$249,300,000
Net Outstanding Variable Rate Debt (Less \$60 million fixed-payer swaps)	\$189,300,000
Investment Balance:	\$421,216,789
Investment to Variable Rate Debt Ratio:	223%
Portfolio - Average Number of Days To Maturity	159

	Investment Portfolio	Real Estate <sup>(3)</sup> Portfolio	Weighted Avg. Return
June	0.52%	11.53%	2.72%
May	0.58%	11.09%	2.66%
Change	-0.06%		0.05%

This Investment Summary Report is in conformity with the 2021 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.

\*S - Step up

IRVINE RANCH WATER DISTRICT  
SUMMARY OF MATURITIES

06/30/21

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Municipal Bonds	US Treasury
06/21	\$75,000,000	18.99%	\$75,000,000				
07/21	20,000,000	5.06%		5,000,000			15,000,000
08/21	25,000,000	6.33%		10,000,000	10,000,000		5,000,000
09/21	35,000,000	8.86%		15,000,000			20,000,000
10/21	35,000,000	8.86%		25,000,000	5,000,000		5,000,000
11/21	20,000,000	5.06%		-			20,000,000
12/21	40,000,000	10.13%		15,000,000			25,000,000
01/22	25,000,000	6.33%		15,000,000			10,000,000
02/22	25,000,000	6.33%		5,000,000			20,000,000
03/22	25,000,000	6.33%		15,000,000			10,000,000
04/22	15,000,000	3.80%		15,000,000			
05/22							
<b>SUB-TOTAL</b>	<b>\$340,000,000</b>	<b>86.08%</b>	<b>\$75,000,000</b>	<b>\$120,000,000</b>	<b>15,000,000</b>		<b>\$130,000,000</b>
<b>13 Months - 3 YEARS</b>							
6/01/2022 - 8/31/2022	35,000,000	8.86%		5,000,000			30,000,000
09/01/2022 - 11/30/2022	20,000,000	5.06%		5,000,000			15,000,000
12/01/2022 +	-						
	-						
	-						
	-						
	-						
	-						
	-						
	-						
<b>TOTALS</b>	<b>\$395,000,000</b>	<b>100.00%</b>	<b>\$75,000,000</b>	<b>\$130,000,000</b>	<b>\$15,000,000</b>		<b>\$175,000,000</b>

% OF PORTFOLIO 18.99% 32.91% 3.80% 44.30%

Irvine Ranch Water District  
Summary of Real Estate - Income Producing Investments  
6/30/2021

	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST	ORIGINAL COST	MARKET VALUE 6/30/2021	ANNUALIZED RATE OF RETURN QUARTER ENDED 6/30/2021
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	\$ 170,000,000	20.85%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	\$ 32,258,924	8.53%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	\$ 12,000,000	10.62%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	\$ 11,600,000	7.27%
Sand Canyon Professional Center - Medical Office	Jul-12	Medical Office	Fee Simple	\$ 8,648,594	\$ 11,900,000	8.90%
Sand Canyon Professional Center - General Office	Sep-20	Office Building	Fee Simple	\$ 25,985,968	\$ 33,250,000	-0.90%
<b>Total - Income Properties</b>				<b>\$ 98,555,794</b>	<b>\$ 271,008,924</b>	<b>11.53%</b>

**IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT**  
**INVESTMENT ACTIVITY**  
**Jun-21**

**MATURITIES/SALES/CALLS**

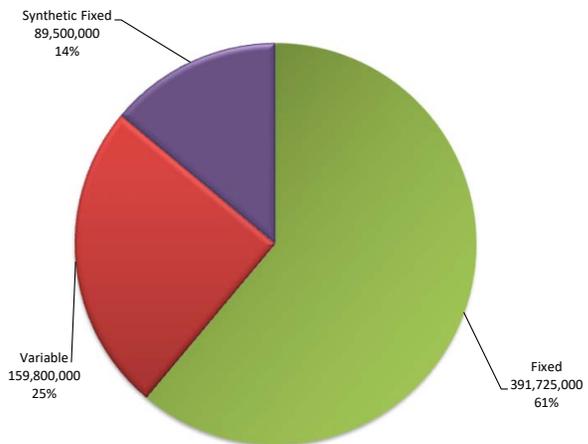
**PURCHASES**

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
5/31/2021	US Treasury	\$10,000,000	1.19%	6/2/2021	12/31/2021	US Treasury	\$10,000,000	0.03%
6/9/2021	FHLB - Discount Note	\$5,000,000	0.19%	6/9/2021	2/28/2022	US Treasury	\$5,000,000	0.05%
6/11/2021	FHLB - Note	\$5,000,000	1.79%	6/11/2021	11/26/2021	Treasury - Bill	\$5,000,000	0.03%
6/30/2021	Treasury - Note	\$5,000,000	1.59%	6/30/2021	12/30/2021	Treasury - Bill	\$5,000,000	0.04%

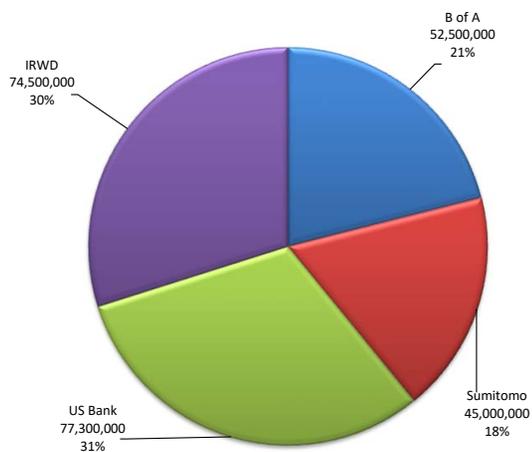
Exhibit "B"

Irvine Ranch Water District  
 Summary of Fixed and Variable Rate Debt  
 June 2021

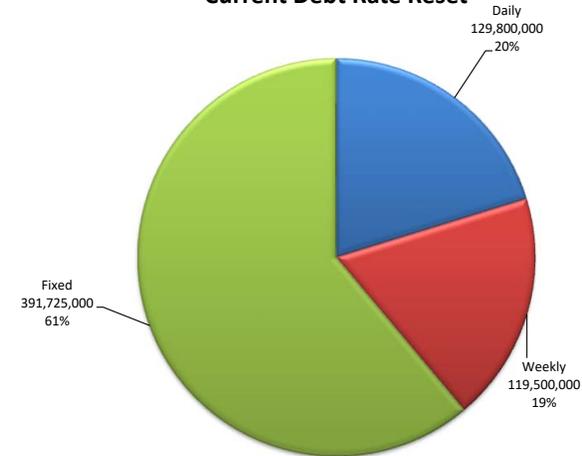
Current Debt Mix By Type



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	\$24,800,000	3.87%	US Bank	BAML	Variable	Daily
Series 2008-A Refunding	04/24/08	07/01/35	\$45,000,000	7.02%	Sumitomo	BAML	Variable	Weekly
Series 2011-A-1 Refunding	04/15/11	10/01/37	\$44,700,000	6.97%	IRWD	Goldman	Variable	Weekly
Series 2011-A-2 Refunding	04/15/11	10/01/37	\$29,800,000	4.65%	IRWD	Goldman	Variable	Weekly
Series 2009 - A	06/04/09	10/01/41	\$52,500,000	8.19%	US Bank	US Bank	Variable	Daily
Series 2009 - B	06/04/09	10/01/41	\$52,500,000	8.19%	B of A	Goldman	Variable	Daily
2016 COPS	09/01/16	03/01/46	\$113,325,000	17.68%	N/A	N/A	Fixed	Fixed
2010 Build America Taxable Bond	12/16/10	05/01/40	\$175,000,000	27.30%	N/A	N/A	Fixed	Fixed
Series 2016	10/12/16	02/01/46	\$103,400,000	16.13%	N/A	N/A	Fixed	Fixed
<b>Total</b>			<b>\$641,025,000</b>	<b>100.00%</b>				

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

June-21

ITN
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	MOODY'S	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	\$24,800,000	US BANK	05/07/15	12/15/21	Aa3/VMIG1	AA-/A-1+	N/R	\$25,134,290	0.3300%	\$82,943	BAML	DAILY	0.10%	\$24,800	BANK OF NY								
SERIES 2008-A Refunding	04/24/08	07/01/35	Jul 1	5th Bus. Day	\$60,215,000	\$45,000,000	SUMITOMO	04/01/11	05/28/25	A1/P-1	A/A-1	A/F1	\$45,665,753	0.3150%	\$143,847	BAML	WED	0.07%	\$31,500	BANK OF NY								
SERIES 2011-A-1 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$60,545,000	\$44,700,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$55,875	BANK OF NY								
SERIES 2011-A-2 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$40,370,000	\$29,800,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$37,250	BANK OF NY								
SERIES 2009 - A	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$52,500,000	US BANK	04/01/11	12/15/21	Aa2/VMIG 1	AA-/A-1+	AA/F1+	\$53,086,849	0.3300%	\$175,187	US Bank	DAILY	0.07%	\$36,750	US BANK								
SERIES 2009 - B	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$52,500,000	B of A	04/01/11	05/16/22	Aa2/VMIG 1	A/A-1	A1/F1+	\$53,086,849	0.3000%	\$159,261	Goldman	DAILY	0.10%	\$52,500	US BANK								
<b>\$349,430,000</b>							<b>\$249,300,000</b>							<b>SUB-TOTAL VARIABLE RATE DEBT</b>					<b>\$176,973,742</b>		<b>0.3171%</b>		<b>\$561,237</b>		<b>0.10%</b>		<b>\$238,675</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	\$113,325,000	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 (2022)	Feb/Aug	\$103,400,000	\$103,400,000	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>\$391,725,000</b>							<b>SUB-TOTAL FIXED RATE DEBT</b>														
<b>\$744,575,000</b>							<b>\$641,025,000</b>							<b>TOTAL- FIXED &amp; VARIABLE RATE DEBT</b>														

Remarketing Agents			GO VS COP's		
Goldman	127,000,000	51%	GO:	527,700,000	82%
BAML	69,800,000	28%	COPS:	113,325,000	18%
US Bank	52,500,000	21%	Total	<u>641,025,000</u>	
	<u>249,300,000</u>				

LOC Banks		Breakdown Between Variable & Fixed Rate Mode	
SUMITOMO	45,000,000	Daily Issues	129,800,000 20%
BANK OF AMERICA	52,500,000	Weekly Issues	45,000,000 7%
US BANK	77,300,000	ITN Issues	74,500,000 12%
	<u>174,800,000</u>	Sub-Total	<u>249,300,000</u>
		Fixed Rate Issues	\$391,725,000 61%
		Sub-Total - Fixed	<u>391,725,000</u>
		TOTAL DEBT	
		FIXED & VAR.	<u>641,025,000</u> 100%

SUMMARY OF DEBT RATES  
Jun-21

Rmkt Agent Mode	GOLDMAN DAILY	GOLDMAN WEEKLY	GOLDMAN WEEKLY	MERRILL LYNCH DAILY	MERRILL LYNCH WEEKLY	US BANK DAILY
Bond Issue	2009 - B	2011 A-1	2011 A-2	1993	2008-A	2009-A
Par Amount	52,500,000	44,700,000	29,800,000	24,800,000	45,000,000	52,500,000
Bank	BOFA	(SIFMA + 3)	(SIFMA + 3)	US BANK	Sumitomo	US BANK
Reset		Wednesday	Wednesday		Wednesday	
6/1/2021	0.01%	0.08%	0.08%	0.01%	0.06%	0.01%
6/2/2021	0.01%	0.08%	0.08%	0.01%	0.06%	0.01%
6/3/2021	0.01%	0.06%	0.06%	0.01%	0.05%	0.01%
6/4/2021	0.01%	0.06%	0.06%	0.01%	0.05%	0.01%
6/5/2021	0.01%	0.06%	0.06%	0.01%	0.05%	0.01%
6/6/2021	0.01%	0.06%	0.06%	0.01%	0.05%	0.01%
6/7/2021	0.01%	0.06%	0.06%	0.01%	0.05%	0.01%
6/8/2021	0.01%	0.06%	0.06%	0.01%	0.05%	0.01%
6/9/2021	0.01%	0.06%	0.06%	0.01%	0.05%	0.01%
6/10/2021	0.03%	0.06%	0.06%	0.01%	0.04%	0.01%
6/11/2021	0.01%	0.06%	0.06%	0.01%	0.04%	0.01%
6/12/2021	0.01%	0.06%	0.06%	0.01%	0.04%	0.01%
6/13/2021	0.01%	0.06%	0.06%	0.01%	0.04%	0.01%
6/14/2021	0.01%	0.06%	0.06%	0.01%	0.04%	0.01%
6/15/2021	0.01%	0.06%	0.06%	0.01%	0.04%	0.01%
6/16/2021	0.01%	0.06%	0.06%	0.01%	0.04%	0.01%
6/17/2021	0.01%	0.06%	0.06%	0.01%	0.03%	0.01%
6/18/2021	0.01%	0.06%	0.06%	0.01%	0.03%	0.01%
6/19/2021	0.01%	0.06%	0.06%	0.01%	0.03%	0.01%
6/20/2021	0.01%	0.06%	0.06%	0.01%	0.03%	0.01%
6/21/2021	0.01%	0.06%	0.06%	0.01%	0.03%	0.01%
6/22/2021	0.01%	0.06%	0.06%	0.01%	0.03%	0.01%
6/23/2021	0.01%	0.06%	0.06%	0.01%	0.03%	0.01%
6/24/2021	0.01%	0.06%	0.06%	0.01%	0.02%	0.01%
6/25/2021	0.01%	0.06%	0.06%	0.01%	0.02%	0.01%
6/26/2021	0.01%	0.06%	0.06%	0.01%	0.02%	0.01%
6/27/2021	0.01%	0.06%	0.06%	0.01%	0.02%	0.01%
6/28/2021	0.01%	0.06%	0.06%	0.01%	0.02%	0.01%
6/29/2021	0.01%	0.06%	0.06%	0.01%	0.02%	0.01%
6/30/2021	0.01%	0.06%	0.06%	0.01%	0.02%	0.01%
Avg Interest Rates	0.01%	0.06%	0.06%	0.01%	0.04%	0.01%
Rmkt Fee	0.10%	0.13%	0.13%	0.10%	0.07%	0.07%
LOC Fee	0.30%			0.33%	0.32%	0.33%
All-In Rate	0.41%	0.19%	0.19%	0.44%	0.42%	0.41%
Par Amount	97,200,000		29,800,000	69,800,000		52,500,000

Interest Rate Mode	Percent of Total Variable Rate Debt	Par Outstanding	Weighted All-In Average Rate	Base Rate Average
Daily	52.07%	129,800,000	0.42%	0.01%
Weekly	47.93%	119,500,000	0.27%	0.05%
	100.00%	\$ 249,300,000	0.35%	0.03%
<b>Fixed</b>				
COPS 2016	28.93%	113,325,000	2.90%	
BABS 2010	44.67%	175,000,000	4.44%	(1)
SERIES 2016	26.40%	103,400,000	3.32%	
	100.00%	\$ 391,725,000	3.70%	
All-In Debt Rate Including \$60 Million Notional Amount of Swaps				<b>2.90%</b>

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

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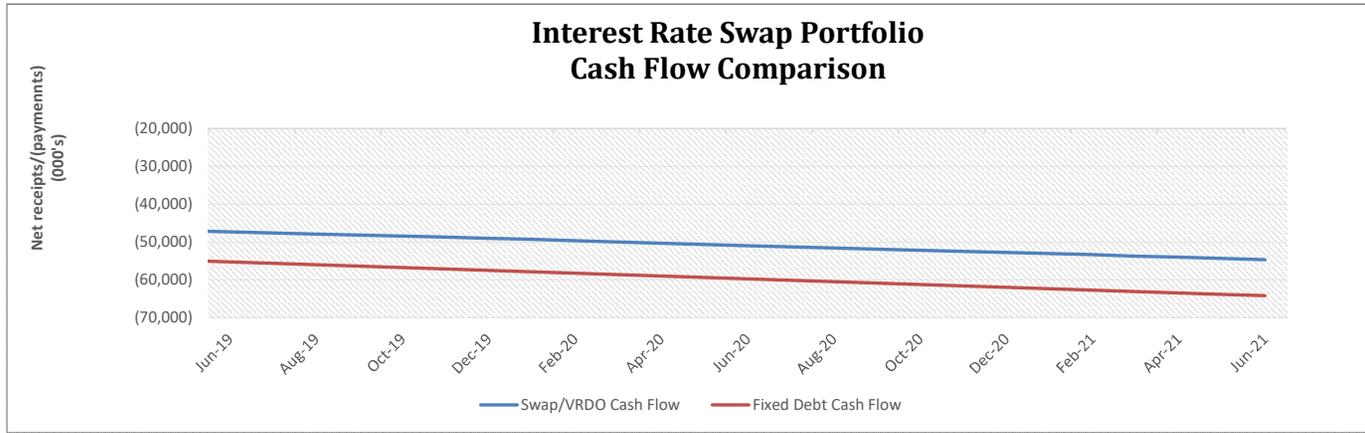
Exhibit "C"  
**Irvine Ranch Water District**  
**Interest Rate Swap Summary**  
**June 2021**

	Prior Mo.	Current Mo.	12-Mo Avg
LIBOR Avg %	0.10%	0.09%	0.13%

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	7.7	ML	30,000,000	FXP	LIBOR	5.687%	(144,329)	(135,360)	(1,665,353)	(19,759,267)	19,816,857	(10,183,143)
3/10/2007	3/10/2029	7.7	CG	30,000,000	FXP	LIBOR	5.687%	(144,329)	(135,360)	(1,665,353)	(19,759,267)	19,809,124	(10,190,876)
Totals/Weighted Avgs		7.7		\$ 60,000,000			5.687%	\$ (288,657)	\$ (270,720)	\$ (3,330,706)	\$ (39,518,533)	\$ 39,625,981	\$ (20,374,019)
<b>Total Current Year Active Swaps</b>				\$ 60,000,000				\$ (288,657)	\$ (270,720)	\$ (3,330,706)	\$ (39,518,533)	\$ 39,625,981	\$ (20,374,019)

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>				\$ -				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Current Fiscal Year - Total Swaps								Cash Flow				Mark to Market	
								Prior Month	Current Month	Fiscal YTD	Cumulative Net Accrual	Current Mark to Market	Notional Difference
<b>Total Current Year Active &amp; Terminated Swaps</b>				\$ 60,000,000				\$ (288,657)	\$ (270,720)	\$ (3,330,706)	\$ (39,518,533)	\$ 39,625,981	\$ (20,374,019)



Cash Flow Comparison	
Synthetic Fixed vs. Fixed Rate Debt	
	<u>Cash Flow to Date</u>
Synthetic Fixed =	\$54,620,749
Fixed Rate =	\$64,212,637
<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 JUN 2021

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
418630	3-Jun-21	Strunk, Robert	184.69	IRWD Check	Reconciled
418631	3-Jun-21	3SE	1,497.50	IRWD Check	Reconciled
418632	3-Jun-21	8X8 INC	9,594.04	IRWD Check	Reconciled
418633	3-Jun-21	ACCUSTANDARD INC	512.47	IRWD Check	Reconciled
418634	3-Jun-21	AGILENT TECHNOLOGIES, INC.	65.03	IRWD Check	Reconciled
418635	3-Jun-21	AIRGAS, INC.	1,400.85	IRWD Check	Reconciled
418636	3-Jun-21	AMAZON CAPITAL SERVICES, INC.	3,883.98	IRWD Check	Reconciled
418637	3-Jun-21	AT&T	60.31	IRWD Check	Reconciled
418638	3-Jun-21	AT&T	4,738.34	IRWD Check	Reconciled
418639	3-Jun-21	ATLAS COPCO USA HOLDINGS INC	838.57	IRWD Check	Reconciled
418640	3-Jun-21	AUTOZONE PARTS, INC.	125.54	IRWD Check	Reconciled
418641	3-Jun-21	BAIK, JEONG	41.57	IRWD Check	Reconciled
418642	3-Jun-21	BARTEL ASSOCIATES, LLC	4,375.00	IRWD Check	Reconciled
418643	3-Jun-21	BEST DRILLING AND PUMP, INC.	489,648.62	IRWD Check	Reconciled
418644	3-Jun-21	BILL'S SWEEPING SERVICE INC	1,990.00	IRWD Check	Reconciled
418645	3-Jun-21	BOOT WORLD, INC.	223.27	IRWD Check	Reconciled
418646	3-Jun-21	BRENNTAG PACIFIC INC	3,346.10	IRWD Check	Reconciled
418647	3-Jun-21	C WELLS PIPELINE MATERIALS INC	30,398.59	IRWD Check	Reconciled
418648	3-Jun-21	CALIFORNIA BARRICADE RENTAL, INC.	19,804.69	IRWD Check	Reconciled
418649	3-Jun-21	CALIFORNIA PACIFIC HOMES	84.03	IRWD Check	Reconciled
418650	3-Jun-21	CALIFORNIA STATE UNIVERSITY, FULLERTON	10,976.00	IRWD Check	Reconciled
418651	3-Jun-21	CANON SOLUTIONS AMERICA, INC.	27.96	IRWD Check	Reconciled
418652	3-Jun-21	CAROLLO ENGINEERS, INC	9,842.00	IRWD Check	Reconciled
418653	3-Jun-21	CHANG, PHILLIP	28.76	IRWD Check	Reconciled
418654	3-Jun-21	CHEN, AARON	21.80	IRWD Check	Negotiable
418655	3-Jun-21	CITY CIRCUIT BREAKERS	1,311.00	IRWD Check	Reconciled
418656	3-Jun-21	CITY OF IRVINE	2,656.40	IRWD Check	Reconciled
418657	3-Jun-21	CITY OF TUSTIN	78,002.32	IRWD Check	Reconciled
418658	3-Jun-21	CLA-VAL COMPANY	34,111.47	IRWD Check	Reconciled
418659	3-Jun-21	COASTAL OCCUPATIONAL MEDICAL GROUP, INC.	1,175.00	IRWD Check	Reconciled
418660	3-Jun-21	COATING SPECIALISTS AND INSPECTION SERVICES, INC.	2,710.00	IRWD Check	Reconciled
418661	3-Jun-21	COLONIAL LIFE & ACCIDENT INSURANCE CO.	1,103.26	IRWD Check	Reconciled
418662	3-Jun-21	COMMERCIAL DOOR OF ORANGE COUNTY, INC.	3,795.00	IRWD Check	Reconciled
418663	3-Jun-21	CONSTELLATION NEWENERGY, INC.	7,077.44	IRWD Check	Reconciled
418664	3-Jun-21	CORE & MAIN LP	59,947.37	IRWD Check	Reconciled
418665	3-Jun-21	COUNTY OF ORANGE	845.59	IRWD Check	Reconciled
418666	3-Jun-21	DAS PROPERTY HOLDING	52.57	IRWD Check	Reconciled
418667	3-Jun-21	DEPARTMENT OF CONSUMER AFFAIRS	250.00	IRWD Check	Reconciled
418668	3-Jun-21	DRIVER SPG	1,565.82	IRWD Check	Negotiable
418669	3-Jun-21	EDUCATION & TRAINING SERVICES, LLC	2,495.00	IRWD Check	Reconciled
418670	3-Jun-21	EI ELECTRONICS LLC	1,950.28	IRWD Check	Reconciled
418671	3-Jun-21	EMD MILLIPORE CORP.	4,231.74	IRWD Check	Reconciled
418672	3-Jun-21	ENVIRONMENTAL RESOURCE ASSOCIATES	116.40	IRWD Check	Reconciled
418673	3-Jun-21	ENVIRONMENTAL SCIENCE ASSOCIATES	1,519.26	IRWD Check	Reconciled
418674	3-Jun-21	EUROFINS CALSCIENCE, LLC	1,753.50	IRWD Check	Reconciled
418675	3-Jun-21	EXECUTIVE LIGHTING & ELECTRIC	884.91	IRWD Check	Reconciled
418676	3-Jun-21	FEDEX	121.70	IRWD Check	Reconciled
418677	3-Jun-21	FIRE EXTINGUISHING SAFETY & SERVICE	981.16	IRWD Check	Reconciled
418678	3-Jun-21	FISERV SOLUTIONS, LLC	23,707.17	IRWD Check	Reconciled
418679	3-Jun-21	FISHER SCIENTIFIC COMPANY LLC	2,717.81	IRWD Check	Reconciled
418680	3-Jun-21	FITCH RATINGS, INC.	15,000.00	IRWD Check	Reconciled
418681	3-Jun-21	FRANCHISE TAX BOARD	986.00	IRWD Check	Negotiable
418682	3-Jun-21	FRONTIER CALIFORNIA INC.	294.33	IRWD Check	Reconciled
418683	3-Jun-21	GANAHL LUMBER CO.	1,484.38	IRWD Check	Reconciled
418684	3-Jun-21	GEORGE HILLS COMPANY, INC.	72.00	IRWD Check	Reconciled
418685	3-Jun-21	GERRO, JOHN	38.18	IRWD Check	Reconciled
418686	3-Jun-21	GRAINGER	6,523.83	IRWD Check	Reconciled
418687	3-Jun-21	GRAVITEC SYSTEMS, INC	1,831.75	IRWD Check	Reconciled
418688	3-Jun-21	GRAYBAR ELECTRIC COMPANY	1,794.70	IRWD Check	Reconciled
418689	3-Jun-21	HAAKER EQUIPMENT COMPANY	996.69	IRWD Check	Reconciled
418690	3-Jun-21	HACH COMPANY	4,860.53	IRWD Check	Reconciled
418691	3-Jun-21	HAHS, ALICE	22.99	IRWD Check	Reconciled
418692	3-Jun-21	HARRY SAUBERMAN AND KAIHAN ZHANG	33.38	IRWD Check	Negotiable
418693	3-Jun-21	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	72.30	IRWD Check	Reconciled
418694	3-Jun-21	HENSEL PHELPS CONSTRUCTION CO	1,900.00	IRWD Check	Reconciled
418695	3-Jun-21	HI-LINE INC	300.56	IRWD Check	Reconciled
418696	3-Jun-21	HILL BROTHERS CHEMICAL COMPANY	9,826.24	IRWD Check	Reconciled
418697	3-Jun-21	HOME DEPOT USA INC	1,510.23	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR JUN 2021**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
418698	3-Jun-21	HOMISCO, INC. AND SUBSIDIARY	988.75	IRWD Check	Reconciled
418699	3-Jun-21	HOPKINS TECHNICAL PRODUCTS INC	459.20	IRWD Check	Reconciled
418700	3-Jun-21	INDUSTRIAL METAL SUPPLY CO	832.86	IRWD Check	Reconciled
418701	3-Jun-21	INTEGRITY MUNICIPAL SERVICES LLC	22,370.00	IRWD Check	Reconciled
418702	3-Jun-21	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	3,059.45	IRWD Check	Reconciled
418703	3-Jun-21	IRELAND INC.	13,886.25	IRWD Check	Reconciled
418704	3-Jun-21	IRVINE PIPE & SUPPLY INC	2,331.08	IRWD Check	Reconciled
418705	3-Jun-21	KAESER COMPRESSORS, INC.	7,895.10	IRWD Check	Reconciled
418706	3-Jun-21	KAZARIANS & ASSOCIATES, INC.	11,765.00	IRWD Check	Reconciled
418707	3-Jun-21	LANDCARE HOLDINGS, INC.	31,335.80	IRWD Check	Reconciled
418708	3-Jun-21	LIEBERT CASSIDY WHITMORE	76.00	IRWD Check	Reconciled
418709	3-Jun-21	LINDSAY POLIC CONSULTING, INC.	6,600.00	IRWD Check	Reconciled
418710	3-Jun-21	LUO, LING	18.90	IRWD Check	Reconciled
418711	3-Jun-21	MC FADDEN-DALE INDUSTRIAL	234.74	IRWD Check	Reconciled
418712	3-Jun-21	MC MASTER CARR SUPPLY CO	1,733.05	IRWD Check	Reconciled
418713	3-Jun-21	MICHAEL BAKER INTERNATIONAL, INC.	8,170.00	IRWD Check	Reconciled
418714	3-Jun-21	NATIONAL READY MIXED CONCRETE SALES, LLC	2,979.34	IRWD Check	Reconciled
418715	3-Jun-21	NEWPORT WINDOW MAINTENANCE INC	2,385.00	IRWD Check	Reconciled
418716	3-Jun-21	NORTHWOOD PLACE APTS	27.24	IRWD Check	Reconciled
418717	3-Jun-21	O.C. SUPERIOR CUSTOM CLEANING	792.00	IRWD Check	Reconciled
418718	3-Jun-21	OLIN CORPORATION	39,629.21	IRWD Check	Reconciled
418719	3-Jun-21	ONESOURCE DISTRIBUTORS LLC	16,359.68	IRWD Check	Reconciled
418720	3-Jun-21	ORANGE COUNTY AUTO PARTS CO	200.97	IRWD Check	Reconciled
418721	3-Jun-21	ORANGE LINE OIL COMPANY	2,664.51	IRWD Check	Reconciled
418722	3-Jun-21	PACIFIC COAST BOLT CORP	373.63	IRWD Check	Reconciled
418723	3-Jun-21	PAULUS ENGINEERING INC	186,720.36	IRWD Check	Reconciled
418724	3-Jun-21	PAULUS ENGINEERING, INC.	408,154.00	IRWD Check	Reconciled
418725	3-Jun-21	PELLETIER & ASSOCIATES, INC.	2,050.00	IRWD Check	Reconciled
418726	3-Jun-21	PERS LONG TERM CARE	447.62	IRWD Check	Reconciled
418727	3-Jun-21	PIPELINE PRODUCTS, INC.	92.24	IRWD Check	Reconciled
418728	3-Jun-21	PRAXAIR DISTRIBUTION INC	2,972.47	IRWD Check	Reconciled
418729	3-Jun-21	PRE-PAID LEGAL SERVICES, INC.	970.03	IRWD Check	Reconciled
418730	3-Jun-21	PRUDENTIAL OVERALL SUPPLY	1,000.31	IRWD Check	Reconciled
418731	3-Jun-21	PTI SAND & GRAVEL INC	1,103.20	IRWD Check	Reconciled
418732	3-Jun-21	RAM AIR ENGINEERING INC	5,044.00	IRWD Check	Reconciled
418733	3-Jun-21	REACH EMPLOYEE ASSISTANCE INC	1,092.00	IRWD Check	Reconciled
418734	3-Jun-21	RED WING SHOE STORE	784.39	IRWD Check	Reconciled
418735	3-Jun-21	REDDY, HANU	124.79	IRWD Check	Reconciled
418736	3-Jun-21	RELIANCE STANDARD LIFE INSURANCE COMPANY	30,702.83	IRWD Check	Reconciled
418737	3-Jun-21	RENTOKIL NORTH AMERICA, INC	220.00	IRWD Check	Reconciled
418738	3-Jun-21	RICHARD C. SLADE & ASSOCIATES LLC	28,051.78	IRWD Check	Negotiable
418739	3-Jun-21	RSG INVESTMENT	66.47	IRWD Check	Reconciled
418740	3-Jun-21	S&S SEEDS INC	486.45	IRWD Check	Reconciled
418741	3-Jun-21	SANTA MARGARITA FORD	270.28	IRWD Check	Reconciled
418742	3-Jun-21	SANTANGELO, GRACE	22.30	IRWD Check	Reconciled
418743	3-Jun-21	SCHINDLER ELEVATOR CORPORATION	229.11	IRWD Check	Reconciled
418744	3-Jun-21	SHAMROCK SUPPLY CO INC	970.46	IRWD Check	Reconciled
418745	3-Jun-21	SMITH SYSTEM DRIVER IMPROVEMENT INSTITUTE, INC.	9,750.00	IRWD Check	Reconciled
418746	3-Jun-21	SOUTHERN CALIFORNIA EDISON COMPANY	593,726.74	IRWD Check	Reconciled
418747	3-Jun-21	SOUTHERN CALIFORNIA EDISON COMPANY	674.72	IRWD Check	Reconciled
418748	3-Jun-21	SOUTHERN CALIFORNIA SECURITY CENTERS, INC.	397.74	IRWD Check	Reconciled
418749	3-Jun-21	SOUTHWEST VALVE & EQUIPMENT INC	1,075.78	IRWD Check	Reconciled
418750	3-Jun-21	SPARKLETT'S	173.94	IRWD Check	Reconciled
418751	3-Jun-21	SPATIAL WAVE, INC.	10,626.00	IRWD Check	Reconciled
418752	3-Jun-21	SUBRAMANYAMURTHY, MURTHY	93.67	IRWD Check	Reconciled
418753	3-Jun-21	T.E. ROBERTS, INC.	122,716.25	IRWD Check	Reconciled
418754	3-Jun-21	TETRA TECH, INC	18,468.75	IRWD Check	Reconciled
418755	3-Jun-21	TEVORA BUSINESS SOLUTIONS, INC.	5,121.25	IRWD Check	Reconciled
418756	3-Jun-21	THE CONVERSE PROFESSIONAL GROUP	5,447.50	IRWD Check	Reconciled
418757	3-Jun-21	THE SHERWIN WILLIAMS COMPANY	945.96	IRWD Check	Reconciled
418758	3-Jun-21	THOMPSON & PHIPPS INC	4,772.65	IRWD Check	Reconciled
418759	3-Jun-21	TIMOTHY W. HOGAN	10,349.49	IRWD Check	Reconciled
418760	3-Jun-21	UNITED SITE SERVICES OF CALIFORNIA INC	219.61	IRWD Check	Reconciled
418761	3-Jun-21	USA BLUEBOOK	560.34	IRWD Check	Reconciled
418762	3-Jun-21	VERIZON WIRELESS SERVICES LLC	13,685.17	IRWD Check	Reconciled
418763	3-Jun-21	VERTECH INDUSTRIAL SYSTEMS, LLC	1,451.25	IRWD Check	Reconciled
418764	3-Jun-21	VU, HONG QUAN	19.56	IRWD Check	Negotiable
418765	3-Jun-21	VULCAN MATERIALS COMPANY	2,891.49	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR JUN 2021**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
418766	3-Jun-21	WATER TREATMENT CHEMICALS INC	12,201.92	IRWD Check	Reconciled
418767	3-Jun-21	WAXIE'S ENTERPRISES, INC	1,323.69	IRWD Check	Reconciled
418768	3-Jun-21	WOOD, MICHELLE	49.99	IRWD Check	Reconciled
418769	3-Jun-21	WOODARD & CURRAN INC	33,188.49	IRWD Check	Reconciled
418770	3-Jun-21	WORKFORCE SAFETY LLC	1,500.00	IRWD Check	Reconciled
418771	3-Jun-21	WORKHORSE DIVING AND SALVAGE, LLC	59,715.00	IRWD Check	Reconciled
418772	3-Jun-21	ZEBRON CONTRACTING INC	700.00	IRWD Check	Reconciled
418773	3-Jun-21	EAST ORANGE COUNTY WATER DISTRICT	92,145.44	IRWD Check	Reconciled
418774	3-Jun-21	RICHINS, CHAD	426.76	IRWD Check	Reconciled
418775	8-Jun-21	ORANGE COUNTY FIRE AUTHORITY	180.00	IRWD Check	Reconciled
418776	10-Jun-21	Drzymkowski, Michele A (Michele)	96.00	IRWD Check	Reconciled
418777	10-Jun-21	Hoffman, Michael S (Mike)	192.00	IRWD Check	Negotiable
418778	10-Jun-21	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	62,891.90	IRWD Check	Reconciled
418779	10-Jun-21	40 TESLA LLC	354.28	IRWD Check	Reconciled
418780	10-Jun-21	A&Y ASPHALT CONTRACTORS, INC.	22,958.00	IRWD Check	Reconciled
418781	10-Jun-21	ABM INDUSTRY GROUPS, LLC	58,522.39	IRWD Check	Reconciled
418782	10-Jun-21	ABSOLUTE STANDARDS, INC.	70.00	IRWD Check	Reconciled
418783	10-Jun-21	ACCUSOURCE, INC.	349.12	IRWD Check	Reconciled
418784	10-Jun-21	ADS CORP.	4,300.00	IRWD Check	Reconciled
418785	10-Jun-21	AECOM TECHNICAL SERVICES, INC.	86,927.90	IRWD Check	Reconciled
418786	10-Jun-21	AERZEN USA CORP	5,159.66	IRWD Check	Reconciled
418787	10-Jun-21	AGILENT TECHNOLOGIES, INC.	2,527.82	IRWD Check	Reconciled
418788	10-Jun-21	AIRGAS, INC.	215.97	IRWD Check	Reconciled
418789	10-Jun-21	AIRKINETICS, INC	7,850.00	IRWD Check	Reconciled
418790	10-Jun-21	ALEXANDER'S CONTRACT SERVICES, INC.	125,832.00	IRWD Check	Reconciled
418791	10-Jun-21	ALLIANT INSURANCE SERVICES, INC	144,889.69	IRWD Check	Reconciled
418792	10-Jun-21	ALSTON & BIRD LLP	23,067.32	IRWD Check	Reconciled
418793	10-Jun-21	AM CONSERVATION GROUP, INC.	363.49	IRWD Check	Reconciled
418794	10-Jun-21	AMAZON CAPITAL SERVICES, INC.	1,137.12	IRWD Check	Reconciled
418795	10-Jun-21	AMS PAVING, INC.	924.33	IRWD Check	Reconciled
418796	10-Jun-21	ANDERSONPENNA PARTNERS, INC.	23,565.00	IRWD Check	Reconciled
418797	10-Jun-21	ANTHEM BLUE CROSS	972.92	IRWD Check	Reconciled
418798	10-Jun-21	APPLIED ENGINEERING CONCEPTS	29,080.00	IRWD Check	Reconciled
418799	10-Jun-21	ARCHROCK SERVICES, L.P.	14,720.77	IRWD Check	Reconciled
418800	10-Jun-21	ARMORCAST PRODUCTS COMPANY	33,252.95	IRWD Check	Reconciled
418801	10-Jun-21	ASSOCIATION OF CALIFORNIA WATER AGENCIES	2,000.00	IRWD Check	Reconciled
418802	10-Jun-21	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA	38,819.29	IRWD Check	Reconciled
418803	10-Jun-21	AT&T	1,106.82	IRWD Check	Reconciled
418804	10-Jun-21	AT&T	1,681.43	IRWD Check	Reconciled
418805	10-Jun-21	ATHENS SERVICES	9,752.06	IRWD Check	Reconciled
418806	10-Jun-21	AUTOZONE PARTS, INC.	756.50	IRWD Check	Reconciled
418807	10-Jun-21	BABAKHANIANS, ARHTHUR	93.92	IRWD Check	Reconciled
418808	10-Jun-21	BARAZSU, JULIE	44.81	IRWD Check	Reconciled
418809	10-Jun-21	BATTERIES PLUS AND BATTERIES PLUS BULBS	1,785.99	IRWD Check	Reconciled
418810	10-Jun-21	BELL TOWER FLORIST & GIFTS	96.96	IRWD Check	Reconciled
418811	10-Jun-21	BIGWIG MONSTER, LLC	2,700.00	IRWD Check	Negotiable
418812	10-Jun-21	BLACK & VEATCH CORPORATION	48,870.50	IRWD Check	Reconciled
418813	10-Jun-21	BLOOMBERG FINANCE LP	13,421.66	IRWD Check	Reconciled
418814	10-Jun-21	BOYD & ASSOCIATES	283.08	IRWD Check	Reconciled
418815	10-Jun-21	C WELLS PIPELINE MATERIALS INC	5,918.71	IRWD Check	Reconciled
418816	10-Jun-21	CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION	2,457.00	IRWD Check	Reconciled
418817	10-Jun-21	CALIFORNIA MUNICIPAL UTILITIES ASSOCIATION	12,790.00	IRWD Check	Reconciled
418818	10-Jun-21	CANON SOLUTIONS AMERICA, INC.	5,200.42	IRWD Check	Reconciled
418819	10-Jun-21	CANON SOLUTIONS AMERICA, INC.	1,035.96	IRWD Check	Reconciled
418820	10-Jun-21	CAROLLO ENGINEERS, INC	1,275.00	IRWD Check	Reconciled
418821	10-Jun-21	CDW GOVERNMENT LLC	125.70	IRWD Check	Reconciled
418822	10-Jun-21	CENTURY PAVING, INC.	90,780.38	IRWD Check	Negotiable
418823	10-Jun-21	CHO DESIGN ASSOCIATES, INC	2,400.00	IRWD Check	Reconciled
418824	10-Jun-21	CIMARRON ENERGY, INC	1,508.50	IRWD Check	Reconciled
418825	10-Jun-21	CLA-VAL COMPANY	12,622.49	IRWD Check	Reconciled
418826	10-Jun-21	CLEAN ENERGY	4,711.08	IRWD Check	Reconciled
418827	10-Jun-21	CLIFFORD MORIYAMA	8,000.00	IRWD Check	Reconciled
418828	10-Jun-21	COMMERCIAL DOOR OF ORANGE COUNTY, INC.	3,352.86	IRWD Check	Reconciled
418829	10-Jun-21	CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC	983.76	IRWD Check	Reconciled
418830	10-Jun-21	CONSTELLATION NEWENERGY, INC.	68,434.19	IRWD Check	Reconciled
418831	10-Jun-21	CORE & MAIN LP	4,000.00	IRWD Check	Reconciled
418832	10-Jun-21	COX COMMUNICATIONS, INC.	275.46	IRWD Check	Reconciled
418833	10-Jun-21	COXCO LLC	9,180.00	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT  
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
418834	10-Jun-21	CR & R INCORPORATED	394.40	IRWD Check	Reconciled
418835	10-Jun-21	D & H WATER SYSTEMS INC.	1,226.22	IRWD Check	Reconciled
418836	10-Jun-21	DAVARI, NOUREDIN	232.50	IRWD Check	Reconciled
418837	10-Jun-21	DAVID CLOSE HOMES	478.64	IRWD Check	Reconciled
418838	10-Jun-21	DCS MANAGEMENT LLC	89.73	IRWD Check	Reconciled
418839	10-Jun-21	DELL MARKETING LP	761.75	IRWD Check	Reconciled
418840	10-Jun-21	DEMARIA ELECTRIC MOTOR SERVICES, INC.	13,941.70	IRWD Check	Reconciled
418841	10-Jun-21	DEPARTMENT OF WATER RESOURCES	4,844.00	IRWD Check	Reconciled
418842	10-Jun-21	DISCOVERY SCIENCE CENTER OF ORANGE COUNTY	41,917.12	IRWD Check	Reconciled
418843	10-Jun-21	DOPUDJA & WELLS CONSULTING INC.	4,530.00	IRWD Check	Reconciled
418844	10-Jun-21	DRAEGER, INC.	7,862.66	IRWD Check	Reconciled
418845	10-Jun-21	EI&C ENGINEERING INC.	37,400.00	IRWD Check	Reconciled
418846	10-Jun-21	EMD MILLIPORE CORP.	605.13	IRWD Check	Reconciled
418847	10-Jun-21	ENVIRO-CHEM, INC.	540.00	IRWD Check	Reconciled
418848	10-Jun-21	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	16,413.75	IRWD Check	Reconciled
418849	10-Jun-21	ENVIRONMENTAL EXPRESS INC	1,607.15	IRWD Check	Reconciled
418850	10-Jun-21	ESMOND, CHRIS	42.78	IRWD Check	Negotiable
418851	10-Jun-21	EUROFINS CALSCIENCE, LLC	8,426.25	IRWD Check	Reconciled
418852	10-Jun-21	EUROFINS EATON ANALYTICAL, INC.	300.00	IRWD Check	Reconciled
418853	10-Jun-21	FASTBLUE COMMUNICATIONS INC.	1,917.00	IRWD Check	Reconciled
418854	10-Jun-21	FEINERMAN, YANINA	71.60	IRWD Check	Reconciled
418855	10-Jun-21	FERREIRA CONSTRUCTION COMPANY, INC.	225,987.90	IRWD Check	Reconciled
418856	10-Jun-21	FIRST CHOICE SERVICES	154.98	IRWD Check	Reconciled
418857	10-Jun-21	FISHER SCIENTIFIC COMPANY LLC	4,850.40	IRWD Check	Reconciled
418858	10-Jun-21	FLEET SOLUTIONS LLC	6,141.54	IRWD Check	Reconciled
418859	10-Jun-21	FLUKE ELECTRONICS CORPORATION	4,400.00	IRWD Check	Reconciled
418860	10-Jun-21	FOUGHT, CYNTHIA J.	2,593.70	IRWD Check	Reconciled
418861	10-Jun-21	GANAHL LUMBER CO.	5,249.88	IRWD Check	Reconciled
418862	10-Jun-21	GANION, JAMES	398.75	IRWD Check	Reconciled
418863	10-Jun-21	GARDENSOFT CORP	3,000.00	IRWD Check	Reconciled
418864	10-Jun-21	GCI CONSTRUCTION, INC.	43,711.50	IRWD Check	Reconciled
418865	10-Jun-21	GOLDMAN, SACHS & CO. LLC	12,945.21	IRWD Check	Reconciled
418866	10-Jun-21	GRAINGER	5,569.16	IRWD Check	Reconciled
418867	10-Jun-21	GRAYBAR ELECTRIC COMPANY	79.37	IRWD Check	Reconciled
418868	10-Jun-21	GROFMAN, BERNARD	483.35	IRWD Check	Negotiable
418869	10-Jun-21	H.W. HUNTER, INC.	53,401.94	IRWD Check	Reconciled
418870	10-Jun-21	HACH COMPANY	2,914.16	IRWD Check	Reconciled
418871	10-Jun-21	HALL, ALLISON	89.22	IRWD Check	Reconciled
418872	10-Jun-21	HAN, MIN	363.20	IRWD Check	Negotiable
418873	10-Jun-21	HARRINGTON INDUSTRIAL PLASTICS LLC	11,808.77	IRWD Check	Reconciled
418874	10-Jun-21	HDR ENGINEERING INC	187,043.65	IRWD Check	Reconciled
418875	10-Jun-21	HEDGPETH, DIONE	40.10	IRWD Check	Reconciled
418876	10-Jun-21	HILL BROTHERS CHEMICAL COMPANY	4,068.84	IRWD Check	Reconciled
418877	10-Jun-21	HOME DEPOT USA INC	1,072.34	IRWD Check	Reconciled
418878	10-Jun-21	HUMANA INSURANCE COMPANY	65.30	IRWD Check	Reconciled
418879	10-Jun-21	INDUSTRIAL METAL SUPPLY CO	810.70	IRWD Check	Reconciled
418880	10-Jun-21	INFOSEND, INC.	48,040.75	IRWD Check	Reconciled
418881	10-Jun-21	INTERNATIONAL E-Z UP, INC.	82.98	IRWD Check	Reconciled
418882	10-Jun-21	IRON MOUNTAIN INFORMATION MANAGEMENT INC	657.02	IRWD Check	Reconciled
418883	10-Jun-21	IRVINE PIPE & SUPPLY INC	1,664.61	IRWD Check	Reconciled
418884	10-Jun-21	JIG CONSULTANTS	1,584.85	IRWD Check	Reconciled
418885	10-Jun-21	JOHNSTON, K ROSS	81.79	IRWD Check	Negotiable
418886	10-Jun-21	KAN VENTURES, INC	6,500.00	IRWD Check	Reconciled
418887	10-Jun-21	KENT DAHLBERG	15,206.78	IRWD Check	Reconciled
418888	10-Jun-21	KONECRANES INC	4,407.50	IRWD Check	Reconciled
418889	10-Jun-21	KUTAK ROCK LLP	1,117.50	IRWD Check	Reconciled
418890	10-Jun-21	LAI, INGE	32.99	IRWD Check	Negotiable
418891	10-Jun-21	LANDCARE HOLDINGS, INC.	4,586.66	IRWD Check	Reconciled
418892	10-Jun-21	LEE & RO, INC.	26,653.91	IRWD Check	Reconciled
418893	10-Jun-21	LENNAR HOMES OF CALIFORNIA, INC.	76.27	IRWD Check	Reconciled
418894	10-Jun-21	LILLESTRAND LEADERSHIP CONSULTING, INC.	2,200.00	IRWD Check	Reconciled
418895	10-Jun-21	LINE-X OF SOUTH COAST	4,731.25	IRWD Check	Reconciled
418896	10-Jun-21	LIU, RUILIN	307.87	IRWD Check	Reconciled
418897	10-Jun-21	MARK ENTERPRISES TECHNOLOGIES LLC	49,234.66	IRWD Check	Reconciled
418898	10-Jun-21	MARK KADESH	10,200.00	IRWD Check	Reconciled
418899	10-Jun-21	MBC AQUATIC SCIENCES, INC.	1,350.00	IRWD Check	Reconciled
418900	10-Jun-21	MBF CONSULTING, INC.	6,963.60	IRWD Check	Reconciled
418901	10-Jun-21	MC MASTER CARR SUPPLY CO	763.85	IRWD Check	Reconciled

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418902	10-Jun-21	MELANIE CARY	357.46	IRWD Check	Reconciled
418903	10-Jun-21	MOTION INDUSTRIES INC	107.43	IRWD Check	Reconciled
418904	10-Jun-21	MUTUAL PROPANE	145.85	IRWD Check	Reconciled
418905	10-Jun-21	NATIONAL READY MIXED CONCRETE SALES, LLC	4,782.49	IRWD Check	Reconciled
418906	10-Jun-21	NATURES IMAGE INC	4,050.00	IRWD Check	Reconciled
418907	10-Jun-21	NINYO & MOORE	1,382.50	IRWD Check	Reconciled
418908	10-Jun-21	NORTHWOOD PARK APTS	569.87	IRWD Check	Reconciled
418909	10-Jun-21	NV5, INC.	22,400.00	IRWD Check	Reconciled
418910	10-Jun-21	O'REILLY AUTO ENTERPRISES, LLC	1,135.67	IRWD Check	Reconciled
418911	10-Jun-21	O.C. SUPERIOR CUSTOM CLEANING	3,600.00	IRWD Check	Reconciled
418912	10-Jun-21	OCEAN BLUE ENVIRONMENTAL SERVICES INC	4,648.77	IRWD Check	Reconciled
418913	10-Jun-21	OLIN CORPORATION	13,219.62	IRWD Check	Reconciled
418914	10-Jun-21	ORACLE AMERICA, INC.	203,071.67	IRWD Check	Reconciled
418915	10-Jun-21	ORANGE COUNTY AUTO PARTS CO	582.02	IRWD Check	Reconciled
418916	10-Jun-21	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	3,973.38	IRWD Check	Reconciled
418917	10-Jun-21	PACIFIC PARTS & CONTROLS INC	535.13	IRWD Check	Reconciled
418918	10-Jun-21	PACIFIC RESOURCE RECOVERY	3,291.95	IRWD Check	Reconciled
418919	10-Jun-21	PACRIM ENGINEERING INC.	2,700.00	IRWD Check	Reconciled
418920	10-Jun-21	PAPER DEPOT DOCUMENT DESTRUCTION LLC	306.00	IRWD Check	Reconciled
418921	10-Jun-21	PASCAL & LUDWIG CONSTRUCTORS	28,500.00	IRWD Check	Reconciled
418922	10-Jun-21	PASCAL & LUDWIG CONSTRUCTORS	1,500.00	IRWD Check	Reconciled
418923	10-Jun-21	PAYMENTUS GROUP INC.	45,910.82	IRWD Check	Reconciled
418924	10-Jun-21	PENN ARCHIVE SERVICES	62.86	IRWD Check	Reconciled
418925	10-Jun-21	PERKINELMER HEALTH SCIENCES INC	629.69	IRWD Check	Reconciled
418926	10-Jun-21	PETRUSSE-NORRIS PAINTING, INC.	17,848.74	IRWD Check	Reconciled
418927	10-Jun-21	PLUMBERS DEPOT INC.	224.04	IRWD Check	Reconciled
418928	10-Jun-21	PRAXAIR DISTRIBUTION INC	304.16	IRWD Check	Reconciled
418929	10-Jun-21	PREMIER PAVING INC.	4,504.65	IRWD Check	Reconciled
418930	10-Jun-21	PROBOLSKY RESEARCH LLC	11,518.75	IRWD Check	Reconciled
418931	10-Jun-21	PROFESSIONAL ELECTRICAL CONSTRUCTION SERVICES INC	1,538.30	IRWD Check	Negotiable
418932	10-Jun-21	PRUDENTIAL OVERALL SUPPLY	10,575.84	IRWD Check	Reconciled
418933	10-Jun-21	PTI SAND & GRAVEL INC	1,710.41	IRWD Check	Reconciled
418934	10-Jun-21	PYRO-COMM SYSTEMS INC	985.00	IRWD Check	Reconciled
418935	10-Jun-21	QUADIENT LEASING USA, INC.	3,265.46	IRWD Check	Reconciled
418936	10-Jun-21	QUALITY STREET SERVICE	1,491.63	IRWD Check	Reconciled
418937	10-Jun-21	RAM AIR ENGINEERING INC	25,946.97	IRWD Check	Reconciled
418938	10-Jun-21	RODNEY HARMSWORTH ASSOCIATES, INC.	3,906.00	IRWD Check	Reconciled
418939	10-Jun-21	ROSEMOUNT INC.	2,665.47	IRWD Check	Reconciled
418940	10-Jun-21	SAN MARCO APARTMENTS	43.82	IRWD Check	Reconciled
418941	10-Jun-21	SANTA ANA BLUE PRINT	85.70	IRWD Check	Reconciled
418942	10-Jun-21	SANTA MARGARITA FORD	187.39	IRWD Check	Reconciled
418943	10-Jun-21	SCRIPTCLAIM SYSTEMS LLC	32.00	IRWD Check	Reconciled
418944	10-Jun-21	SCRIPTCLAIM SYSTEMS LLC	160.00	IRWD Check	Reconciled
418945	10-Jun-21	SCRIPTCLAIM SYSTEMS LLC	480.00	IRWD Check	Reconciled
418946	10-Jun-21	SHAMROCK SUPPLY CO INC	1,073.97	IRWD Check	Reconciled
418947	10-Jun-21	SHOETERIA	181.07	IRWD Check	Reconciled
418948	10-Jun-21	SI TESTING	2,198.00	IRWD Check	Negotiable
418949	10-Jun-21	SIEMENS INDUSTRY INC	2,062.34	IRWD Check	Reconciled
418950	10-Jun-21	SIGNATURE FLOORING, INC	1,997.00	IRWD Check	Reconciled
418951	10-Jun-21	SITEONE LANDSCAPE SUPPLY, LLC	254.24	IRWD Check	Reconciled
418952	10-Jun-21	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	2,077.59	IRWD Check	Reconciled
418953	10-Jun-21	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	1,491.08	IRWD Check	Reconciled
418954	10-Jun-21	SOUTHERN CALIFORNIA EDISON COMPANY	119,862.64	IRWD Check	Reconciled
418955	10-Jun-21	SOUTHERN CALIFORNIA SECURITY CENTERS, INC.	13.47	IRWD Check	Negotiable
418956	10-Jun-21	SOUTHERN COUNTIES LUBRICANTS LLC	4,681.01	IRWD Check	Reconciled
418957	10-Jun-21	SOUTHSIDE TOWING	475.00	IRWD Check	Reconciled
418958	10-Jun-21	STANTEC CONSULTING SERVICES INC.	2,325.00	IRWD Check	Reconciled
418959	10-Jun-21	STICE COMPANY, INC.	917.33	IRWD Check	Reconciled
418960	10-Jun-21	SURAPANENI, PHANI	888.60	IRWD Check	Reconciled
418961	10-Jun-21	TANKVISIONS, INC	30.00	IRWD Check	Reconciled
418962	10-Jun-21	TASSIN SCIENTIFIC SERVICES, LLC.	1,221.69	IRWD Check	Reconciled
418963	10-Jun-21	TETRA TECH, INC	58,851.25	IRWD Check	Reconciled
418964	10-Jun-21	THE PAPE' GROUP INC.	12,502.71	IRWD Check	Reconciled
418965	10-Jun-21	THOMPSON & PHIPPS INC	6,606.62	IRWD Check	Reconciled
418966	10-Jun-21	TONY DEMARIA ELECTRIC, INC (DBA TDE)	3,930.00	IRWD Check	Reconciled
418967	10-Jun-21	TRI POINTE HOMES, INC.	1,105.88	IRWD Check	Reconciled
418968	10-Jun-21	TRUCK CRANE RENTAL	1,733.10	IRWD Check	Reconciled
418969	10-Jun-21	TURNING POINTE PROPERTIES INC	182.83	IRWD Check	Negotiable

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<b>CHECK OR ELECTRONIC #</b>	<b>PAYMENT DATE</b>	<b>SUPPLIERS</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
418970	10-Jun-21	U.S. GAIN - A DIVISION OF U.S. VENTURE, INC.	742.73	IRWD Check	Reconciled
418971	10-Jun-21	UBERLYTICS, LLC	12,125.00	IRWD Check	Negotiable
418972	10-Jun-21	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	4,875.07	IRWD Check	Reconciled
418973	10-Jun-21	UNITED HEALTHCARE INSURANCE COMPANY	324.22	IRWD Check	Reconciled
418974	10-Jun-21	UNITED PARCEL SERVICE INC	66.00	IRWD Check	Reconciled
418975	10-Jun-21	UNITED SITE SERVICES OF CALIFORNIA INC	632.91	IRWD Check	Reconciled
418976	10-Jun-21	USA BLUEBOOK	519.19	IRWD Check	Reconciled
418977	10-Jun-21	VAUGHAN'S INDUSTRIAL REPAIR CO INC	25,451.11	IRWD Check	Reconciled
418978	10-Jun-21	VEOLIA WATER TECHNOLOGIES, INC.	4,397.14	IRWD Check	Reconciled
418979	10-Jun-21	VERIZON WIRELESS SERVICES LLC	7,804.59	IRWD Check	Reconciled
418980	10-Jun-21	VERTECH INDUSTRIAL SYSTEMS, LLC	1,177.50	IRWD Check	Reconciled
418981	10-Jun-21	VULCAN MATERIALS COMPANY	3,030.67	IRWD Check	Reconciled
418982	10-Jun-21	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	5,363.54	IRWD Check	Reconciled
418983	10-Jun-21	WATERSMART SOFTWARE INC	13,547.22	IRWD Check	Reconciled
418984	10-Jun-21	WAXIE'S ENTERPRISES, INC	295.27	IRWD Check	Reconciled
418985	10-Jun-21	WECK LABORATORIES INC	1,900.00	IRWD Check	Reconciled
418986	10-Jun-21	WEST YOST & ASSOCIATES, INC.	10,002.50	IRWD Check	Reconciled
418987	10-Jun-21	WILLIAM LYON HOMES, INC.	44.90	IRWD Check	Reconciled
418988	10-Jun-21	WILLIAMS, STERLING	117.81	IRWD Check	Reconciled
418989	10-Jun-21	WISCONSIN STATE LABORATORY OF HYGIENE	660.00	IRWD Check	Reconciled
418990	10-Jun-21	WOODARD & CURRAN INC	5,842.00	IRWD Check	Reconciled
418991	10-Jun-21	McElroy, Dorien	106.00	IRWD Check	Reconciled
418992	10-Jun-21	JCI JONES CHEMICALS INC	3,302.68	IRWD Check	Reconciled
418993	17-Jun-21	Jordan, Dawn M (Dawn)	39.76	IRWD Check	Negotiable
418994	17-Jun-21	ABSOLUTE STANDARDS, INC.	1,298.00	IRWD Check	Reconciled
418995	17-Jun-21	ADS CORP.	2,250.00	IRWD Check	Reconciled
418996	17-Jun-21	AMAZON CAPITAL SERVICES, INC.	10,419.40	IRWD Check	Reconciled
418997	17-Jun-21	AMERICAN WATER CHEMICALS, INC.	7,391.66	IRWD Check	Reconciled
418998	17-Jun-21	AMETEK BROOKFIELD	1,339.01	IRWD Check	Reconciled
418999	17-Jun-21	ANTHEM BLUE CROSS	283.41	IRWD Check	Reconciled
419000	17-Jun-21	ANTHEM BLUE CROSS	486.46	IRWD Check	Reconciled
419001	17-Jun-21	ANTHEM BLUE CROSS	486.46	IRWD Check	Reconciled
419002	17-Jun-21	APPLIED ENGINEERING CONCEPTS	12,100.00	IRWD Check	Reconciled
419003	17-Jun-21	AQUA-AEROBIC SYSTEMS INC	10,914.34	IRWD Check	Reconciled
419004	17-Jun-21	AT&T	175.14	IRWD Check	Reconciled
419005	17-Jun-21	AT&T	103.86	IRWD Check	Reconciled
419006	17-Jun-21	AT&T	3,076.63	IRWD Check	Reconciled
419007	17-Jun-21	ATLAS INTEGRATED SYSTEMS INC.	6,007.94	IRWD Check	Reconciled
419008	17-Jun-21	AUTOZONE PARTS, INC.	679.27	IRWD Check	Reconciled
419009	17-Jun-21	AVIAT U.S., INC	8,206.00	IRWD Check	Reconciled
419010	17-Jun-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	1,425.00	IRWD Check	Reconciled
419011	17-Jun-21	BIGWIG MONSTER, LLC	14,400.00	IRWD Check	Negotiable
419012	17-Jun-21	BILL'S SWEEPING SERVICE INC	796.00	IRWD Check	Reconciled
419013	17-Jun-21	BOOT WORLD, INC.	207.75	IRWD Check	Reconciled
419014	17-Jun-21	BSI SERVICES AND SOLUTIONS (WEST) INC.	23,100.00	IRWD Check	Reconciled
419015	17-Jun-21	BUILDING SAFETY SOLUTIONS, INC.	11,000.00	IRWD Check	Reconciled
419016	17-Jun-21	C WELLS PIPELINE MATERIALS INC	1,251.52	IRWD Check	Reconciled
419017	17-Jun-21	CALIFORNIA BARRICADE RENTAL, INC.	12,345.00	IRWD Check	Reconciled
419018	17-Jun-21	CANON FINANCIAL SERVICES, INC	1,082.89	IRWD Check	Reconciled
419019	17-Jun-21	CANON SOLUTIONS AMERICA, INC.	2,657.34	IRWD Check	Reconciled
419020	17-Jun-21	CDW GOVERNMENT LLC	2,179.80	IRWD Check	Reconciled
419021	17-Jun-21	CIMARRON ENERGY, INC	2,380.77	IRWD Check	Reconciled
419022	17-Jun-21	CITY OF SANTA ANA	523.85	IRWD Check	Reconciled
419023	17-Jun-21	COAST PLUMBING HEATING AND AIR, INC	945.00	IRWD Check	Reconciled
419024	17-Jun-21	COASTAL OCCUPATIONAL MEDICAL GROUP, INC.	295.00	IRWD Check	Negotiable
419025	17-Jun-21	COMMERCIAL DOOR OF ORANGE COUNTY, INC.	1,079.90	IRWD Check	Reconciled
419026	17-Jun-21	CONSTELLATION NEWENERGY, INC.	20,109.76	IRWD Check	Reconciled
419027	17-Jun-21	COUNTY OF ORANGE	5,539.00	IRWD Check	Reconciled
419028	17-Jun-21	CPI-INTERNATIONAL, INC	108.91	IRWD Check	Reconciled
419029	17-Jun-21	CR & R INCORPORATED	33.94	IRWD Check	Reconciled
419030	17-Jun-21	CULLIGAN OF SANTA ANA	21,000.00	IRWD Check	Reconciled
419031	17-Jun-21	DATA CLEAN CORPORATION	559.00	IRWD Check	Reconciled
419032	17-Jun-21	DCS MANAGEMENT LLC	72.24	IRWD Check	Reconciled
419033	17-Jun-21	DELL MARKETING LP	12,786.12	IRWD Check	Reconciled
419034	17-Jun-21	DWYER INSTRUMENTS INC	1,792.87	IRWD Check	Reconciled
419035	17-Jun-21	EMBREY, CHELSEA	400.00	IRWD Check	Negotiable
419036	17-Jun-21	ENTERPRISE INFORMATION SYSTEMS, INC.	1,680.00	IRWD Check	Negotiable
419037	17-Jun-21	ENVIRONMENTAL RESOURCE ASSOCIATES	1,655.04	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT  
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
419038	17-Jun-21	EUROFINS CALSCIENCE, LLC	2,866.50	IRWD Check	Reconciled
419039	17-Jun-21	EVERETT DOREY LLP	6,134.30	IRWD Check	Reconciled
419040	17-Jun-21	EXECUTIVE LIGHTING & ELECTRIC	2,384.75	IRWD Check	Reconciled
419041	17-Jun-21	FEDEX	321.95	IRWD Check	Reconciled
419042	17-Jun-21	FERGUSON ENTERPRISES, LLC	18,619.20	IRWD Check	Reconciled
419043	17-Jun-21	FIDELITY SECURITY LIFE INSURANCE COMPANY	209.14	IRWD Check	Reconciled
419044	17-Jun-21	FIDELITY SECURITY LIFE INSURANCE COMPANY	865.55	IRWD Check	Reconciled
419045	17-Jun-21	FIDELITY SECURITY LIFE INSURANCE COMPANY	6,848.01	IRWD Check	Reconciled
419046	17-Jun-21	FIDELITY SECURITY LIFE INSURANCE COMPANY	85.82	IRWD Check	Reconciled
419047	17-Jun-21	FIERRO, SERGIO D	3,960.00	IRWD Check	Reconciled
419048	17-Jun-21	FISHER SCIENTIFIC COMPANY LLC	2,263.46	IRWD Check	Reconciled
419049	17-Jun-21	FOUGHT, CYNTHIA J.	48.49	IRWD Check	Reconciled
419050	17-Jun-21	FRANCHISE TAX BOARD	986.00	IRWD Check	Negotiable
419051	17-Jun-21	FRONTIER CALIFORNIA INC.	58.66	IRWD Check	Reconciled
419052	17-Jun-21	FULLER TRUCK ACCESSORIES	926.65	IRWD Check	Reconciled
419053	17-Jun-21	GALLADE CHEMICAL INC	2,749.78	IRWD Check	Reconciled
419054	17-Jun-21	GEI CONSULTANTS INC	1,425.00	IRWD Check	Reconciled
419055	17-Jun-21	GEIGER BROS	1,184.04	IRWD Check	Reconciled
419056	17-Jun-21	GEOPENTECH, INC.	1,800.00	IRWD Check	Reconciled
419057	17-Jun-21	GI ENDURANT LLC	32,083.00	IRWD Check	Reconciled
419058	17-Jun-21	GM SAGER CONSTRUCTION CO,INC.	73,800.00	IRWD Check	Reconciled
419059	17-Jun-21	GOFORTH & MARTI	2,800.00	IRWD Check	Reconciled
419060	17-Jun-21	GOODWIN, THOMAS	55.95	IRWD Check	Reconciled
419061	17-Jun-21	GRAINGER	3,953.16	IRWD Check	Reconciled
419062	17-Jun-21	GWON, DEBORAH	85.84	IRWD Check	Reconciled
419063	17-Jun-21	HARRINGTON INDUSTRIAL PLASTICS LLC	10,348.19	IRWD Check	Reconciled
419064	17-Jun-21	HDR ENGINEERING INC	6,177.74	IRWD Check	Reconciled
419065	17-Jun-21	HELPMATES STAFFING SERVICES	2,650.40	IRWD Check	Reconciled
419066	17-Jun-21	HI-LINE INC	301.09	IRWD Check	Reconciled
419067	17-Jun-21	HILL BROTHERS CHEMICAL COMPANY	10,650.01	IRWD Check	Negotiable
419068	17-Jun-21	HOME DEPOT USA INC	379.60	IRWD Check	Reconciled
419069	17-Jun-21	HORIZON ENGINEERING SYSTEMS LLC	1,760.00	IRWD Check	Reconciled
419070	17-Jun-21	HYDRANAUTICS	12,722.49	IRWD Check	Reconciled
419071	17-Jun-21	IMPERIAL SPRINKLER SUPPLY, INC.	376.16	IRWD Check	Reconciled
419072	17-Jun-21	INDUSTRIAL METAL SUPPLY CO	15.60	IRWD Check	Reconciled
419073	17-Jun-21	INDUSTRIAL NETWORKING SOLUTIONS	4,767.96	IRWD Check	Reconciled
419074	17-Jun-21	INFOSYS LIMITED	26,880.00	IRWD Check	Reconciled
419075	17-Jun-21	INTEGRITY MUNICIPAL SERVICES LLC	2,500.00	IRWD Check	Reconciled
419076	17-Jun-21	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	3,059.45	IRWD Check	Reconciled
419077	17-Jun-21	IRVINE PIPE & SUPPLY INC	971.67	IRWD Check	Reconciled
419078	17-Jun-21	IRWD-PETTY CASH CUSTODIAN	804.08	IRWD Check	Reconciled
419079	17-Jun-21	J M ELECTRICAL SERVICES	4,700.00	IRWD Check	Reconciled
419080	17-Jun-21	JACOBS ENGINEERING GROUP INC.	15,114.90	IRWD Check	Reconciled
419081	17-Jun-21	JENIFER L. KIENLE	10,413.00	IRWD Check	Reconciled
419082	17-Jun-21	JIG CONSULTANTS	15,087.27	IRWD Check	Negotiable
419083	17-Jun-21	JOHN MICHAEL COVAS	198.60	IRWD Check	Reconciled
419084	17-Jun-21	KENT DAHLBERG	21,660.16	IRWD Check	Reconciled
419085	17-Jun-21	KILL-N-BUGS TERMITES AND PEST CONTROL SERVICES	5,575.00	IRWD Check	Reconciled
419086	17-Jun-21	KONECRANES INC	6,943.90	IRWD Check	Reconciled
419087	17-Jun-21	KRONICK MOSKOVITZ TIEDEMANN & GIRARD	66,114.71	IRWD Check	Reconciled
419088	17-Jun-21	LANDCARE HOLDINGS, INC.	136,627.38	IRWD Check	Reconciled
419089	17-Jun-21	LAWRENCE, JANET L	15.90	IRWD Check	Reconciled
419090	17-Jun-21	LCS TECHNOLOGIES, INC.	3,240.00	IRWD Check	Reconciled
419091	17-Jun-21	LEE & RO, INC.	12,778.00	IRWD Check	Reconciled
419092	17-Jun-21	LEE, SHENG	762.79	IRWD Check	Reconciled
419093	17-Jun-21	LSA ASSOCIATES INC	1,338.75	IRWD Check	Reconciled
419094	17-Jun-21	MAP COMMUNICATIONS, INC.	2,742.89	IRWD Check	Reconciled
419095	17-Jun-21	MATHESON TRI GAS, INC	25.72	IRWD Check	Reconciled
419096	17-Jun-21	MC FADDEN-DALE INDUSTRIAL	78.33	IRWD Check	Reconciled
419097	17-Jun-21	MC MASTER CARR SUPPLY CO	826.68	IRWD Check	Reconciled
419098	17-Jun-21	MCNUTT-PENG RHAPSODY, LLC	64.39	IRWD Check	Reconciled
419099	17-Jun-21	MERRIMAC PETROLEUM, INC.	29,309.28	IRWD Check	Reconciled
419100	17-Jun-21	MIREJOVSKY, SAMUEL	31.67	IRWD Check	Negotiable
419101	17-Jun-21	MORRISROE, EDWARD	406.23	IRWD Check	Reconciled
419102	17-Jun-21	MUTUAL PROPANE	27.00	IRWD Check	Reconciled
419103	17-Jun-21	NATIONAL READY MIXED CONCRETE SALES, LLC	468.73	IRWD Check	Reconciled
419104	17-Jun-21	NATURALWELL, LLC	2,035.00	IRWD Check	Reconciled
419105	17-Jun-21	NEWPORT MESA CHURCH	712.63	IRWD Check	Reconciled

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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
419106	17-Jun-21	NOVACOAST INC	22,909.60	IRWD Check	Reconciled
419107	17-Jun-21	NSI LAB SOLUTIONS, INC.	320.00	IRWD Check	Reconciled
419108	17-Jun-21	O'REILLY AUTO ENTERPRISES, LLC	39.18	IRWD Check	Reconciled
419109	17-Jun-21	OCTA	3,528.00	IRWD Check	Reconciled
419110	17-Jun-21	OLIN CORPORATION	29,621.50	IRWD Check	Reconciled
419111	17-Jun-21	ONESOURCE DISTRIBUTORS LLC	1,763.95	IRWD Check	Reconciled
419112	17-Jun-21	ORACLE AMERICA, INC.	29,821.36	IRWD Check	Reconciled
419113	17-Jun-21	ORANGE COUNTY AUTO PARTS CO	196.42	IRWD Check	Reconciled
419114	17-Jun-21	ORIGIN CONSULTING LLC	188,013.84	IRWD Check	Negotiable
419115	17-Jun-21	ORRICK, HERRINGTON & SUTCLIFFE LLP	5,000.00	IRWD Check	Reconciled
419116	17-Jun-21	OSTS, INC	1,150.00	IRWD Check	Reconciled
419117	17-Jun-21	PACIFIC COAST BOLT CORP	6,763.91	IRWD Check	Reconciled
419118	17-Jun-21	PACIFIC HYDROTECH CORPORATION	9,689.35	IRWD Check	Reconciled
419119	17-Jun-21	PACIFIC HYDROTECH CORPORATION	10,977.45	IRWD Check	Reconciled
419120	17-Jun-21	PACIFIC HYDROTECH CORPORATION	392,669.06	IRWD Check	Reconciled
419121	17-Jun-21	PACIFIC PARTS & CONTROLS INC	485.98	IRWD Check	Reconciled
419122	17-Jun-21	PAYNE & FEARS LLP	7,986.00	IRWD Check	Reconciled
419123	17-Jun-21	PELLETIER & ASSOCIATES, INC.	390.00	IRWD Check	Reconciled
419124	17-Jun-21	PERS LONG TERM CARE	447.62	IRWD Check	Reconciled
419125	17-Jun-21	PHENIX ENTERPRISES, INC	2,275.13	IRWD Check	Reconciled
419126	17-Jun-21	PILAR ONATE	15,000.00	IRWD Check	Negotiable
419127	17-Jun-21	PILLSBURY WINTHROP SHAW PITTMAN LLP	22,208.00	IRWD Check	Reconciled
419128	17-Jun-21	PIX4D INC.	4,990.00	IRWD Check	Reconciled
419129	17-Jun-21	PLUMBERS DEPOT INC.	728.39	IRWD Check	Reconciled
419130	17-Jun-21	POLYDYNE INC	851.23	IRWD Check	Reconciled
419131	17-Jun-21	PRIDEMARK CONTRACTORS, INC.	1,795.92	IRWD Check	Reconciled
419132	17-Jun-21	PYRO-COMM SYSTEMS INC	4,736.78	IRWD Check	Reconciled
419133	17-Jun-21	QUINTANA, WATTS & HARTMANN, LLC	5,150.00	IRWD Check	Reconciled
419134	17-Jun-21	RAM AIR ENGINEERING INC	17,296.66	IRWD Check	Reconciled
419135	17-Jun-21	RED WING SHOE STORE	200.00	IRWD Check	Reconciled
419136	17-Jun-21	RENTOKIL NORTH AMERICA, INC	17,042.00	IRWD Check	Reconciled
419137	17-Jun-21	RESTEK CORPORATION	99.87	IRWD Check	Reconciled
419138	17-Jun-21	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	36,145.62	IRWD Check	Reconciled
419139	17-Jun-21	RTM ENGINEERING CONSULTANTS, LLC	1,405.50	IRWD Check	Reconciled
419140	17-Jun-21	SAFETY CENTER INCORPORATED	3,696.00	IRWD Check	Reconciled
419141	17-Jun-21	SAN CARLO APARTMENTS	67.78	IRWD Check	Reconciled
419142	17-Jun-21	SANTA ANA BLUE PRINT	370.02	IRWD Check	Reconciled
419143	17-Jun-21	SERRANO WATER DISTRICT	6,602.58	IRWD Check	Reconciled
419144	17-Jun-21	SITEONE LANDSCAPE SUPPLY, LLC	3,850.00	IRWD Check	Reconciled
419145	17-Jun-21	SMT AUTOMOTIVE LLC	406.01	IRWD Check	Reconciled
419146	17-Jun-21	SNYDER LANGSTON L.P.	668.30	IRWD Check	Reconciled
419147	17-Jun-21	SOUTH BAY FOUNDRY, INC	7,170.76	IRWD Check	Reconciled
419148	17-Jun-21	SOUTH COAST WATER CO.	95.00	IRWD Check	Reconciled
419149	17-Jun-21	SOUTH COAST WATER DISTRICT	22,844.55	IRWD Check	Reconciled
419150	17-Jun-21	SOUTHERN CALIFORNIA EDISON COMPANY	291,012.50	IRWD Check	Reconciled
419151	17-Jun-21	SOUTHERN CALIFORNIA EDISON COMPANY	1,416.92	IRWD Check	Reconciled
419152	17-Jun-21	SOUTHERN CALIFORNIA GAS COMPANY	12,212.26	IRWD Check	Reconciled
419153	17-Jun-21	SOUTHERN CONTRACTING COMPANY	112,200.17	IRWD Check	Negotiable
419154	17-Jun-21	SPATIAL WAVE, INC.	4,220.00	IRWD Check	Reconciled
419155	17-Jun-21	STANDARD & POOR'S FINANCIAL SERVICES LLC	3,500.00	IRWD Check	Reconciled
419156	17-Jun-21	STRADLING YOCCA CARLSON & RAUTH	364.00	IRWD Check	Reconciled
419157	17-Jun-21	STREAKWAVE WIRELESS, INC.	290.93	IRWD Check	Reconciled
419158	17-Jun-21	SYNAGRO-WWT, INC.	41,983.39	IRWD Check	Reconciled
419159	17-Jun-21	TAYLOR MORRISON OF CALIFORNIA, LLC	38.14	IRWD Check	Voided
419160	17-Jun-21	THE PAPE' GROUP INC.	220.30	IRWD Check	Reconciled
419161	17-Jun-21	TIMOTHY W. HOGAN	1,430.00	IRWD Check	Reconciled
419162	17-Jun-21	TIU, MICHELLE	32.82	IRWD Check	Negotiable
419163	17-Jun-21	TROPICAL PLAZA NURSERY INC	64,242.00	IRWD Check	Reconciled
419164	17-Jun-21	TRUKSPECT, INC	903.96	IRWD Check	Reconciled
419165	17-Jun-21	TSUYUKI, THEODORE	44.59	IRWD Check	Reconciled
419166	17-Jun-21	UNITED PARCEL SERVICE INC	288.26	IRWD Check	Reconciled
419167	17-Jun-21	UNITED SITE SERVICES OF CALIFORNIA INC	2,135.10	IRWD Check	Reconciled
419168	17-Jun-21	UNIVAR SOLUTIONS USA INC.	5,736.35	IRWD Check	Reconciled
419169	17-Jun-21	VAUGHAN'S INDUSTRIAL REPAIR CO INC	20,106.34	IRWD Check	Reconciled
419170	17-Jun-21	VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV	31,824.74	IRWD Check	Reconciled
419171	17-Jun-21	VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV	604,670.01	IRWD Check	Reconciled
419172	17-Jun-21	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	342.56	IRWD Check	Reconciled
419173	17-Jun-21	WATEREUSE ASSOCIATION	5,500.00	IRWD Check	Negotiable

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419174	17-Jun-21	WATERLINE TECHNOLOGIES INC	5,440.00	IRWD Check	Reconciled
419175	17-Jun-21	WAXIE'S ENTERPRISES, INC	1,428.34	IRWD Check	Reconciled
419176	17-Jun-21	WECK LABORATORIES INC	355.00	IRWD Check	Reconciled
419177	17-Jun-21	WIRELESS WATCHDOGS, LLC	5,552.00	IRWD Check	Reconciled
419178	17-Jun-21	WOODARD & CURRAN INC	4,309.32	IRWD Check	Reconciled
419179	17-Jun-21	Parra, Dennis	283.00	IRWD Check	Reconciled
419180	17-Jun-21	Berry, Wyatt	190.00	IRWD Check	Reconciled
419181	24-Jun-21	Cho, Harry K (Harry)	180.00	IRWD Check	Negotiable
419182	24-Jun-21	Donnelly, Stephen P (Stephen)	110.00	IRWD Check	Negotiable
419183	24-Jun-21	Garza, Gaspar	150.00	IRWD Check	Negotiable
419184	24-Jun-21	Legault, Dan (Dan)	219.75	IRWD Check	Reconciled
419185	24-Jun-21	Silva, Jose A (Jose)	288.00	IRWD Check	Negotiable
419186	24-Jun-21	8X8 INC	9,594.04	IRWD Check	Reconciled
419187	24-Jun-21	A&Y ASPHALT CONTRACTORS, INC.	23,801.60	IRWD Check	Reconciled
419188	24-Jun-21	ABRAHAM, SHAMISTRA	17.04	IRWD Check	Reconciled
419189	24-Jun-21	ACC CONSTRUCTION, INC.	331.48	IRWD Check	Negotiable
419190	24-Jun-21	AIRGAS, INC.	934.49	IRWD Check	Reconciled
419191	24-Jun-21	ALAN SMITH POOLS	1,034.02	IRWD Check	Negotiable
419192	24-Jun-21	ALLIANT INSURANCE SERVICES,INC	10,691.00	IRWD Check	Reconciled
419193	24-Jun-21	AMAZON CAPITAL SERVICES, INC.	1,812.71	IRWD Check	Reconciled
419194	24-Jun-21	AMETEK BROOKFIELD	242.26	IRWD Check	Reconciled
419195	24-Jun-21	AQUA WAVE SWIM SCHOOL	1,630.17	IRWD Check	Reconciled
419196	24-Jun-21	AT&T	7,059.61	IRWD Check	Reconciled
419197	24-Jun-21	ATLAS COPCO USA HOLDINGS INC	437.08	IRWD Check	Negotiable
419198	24-Jun-21	AUTOZONE PARTS, INC.	1,087.95	IRWD Check	Reconciled
419199	24-Jun-21	B & K ELECTRIC WHOLESale	233.23	IRWD Check	Reconciled
419200	24-Jun-21	BATTERY SYSTEMS INC	123.12	IRWD Check	Reconciled
419201	24-Jun-21	BC WIRE ROPE & RIGGING	362.44	IRWD Check	Reconciled
419202	24-Jun-21	BEN ERZI, NATI	1,782.00	IRWD Check	Negotiable
419203	24-Jun-21	BERMINGHAM CONTROLS, INC.	11,010.20	IRWD Check	Reconciled
419204	24-Jun-21	BOBERG ENGINEERING INC.	1,813.87	IRWD Check	Reconciled
419205	24-Jun-21	BORCHARD SURVEYING & MAPPING, INC.	1,822.50	IRWD Check	Negotiable
419206	24-Jun-21	BRENNTAG PACIFIC INC	5,675.20	IRWD Check	Reconciled
419207	24-Jun-21	BROWN AND CALDWELL	1,910.81	IRWD Check	Reconciled
419208	24-Jun-21	CALIFORNIA BARRICADE RENTAL, INC.	22,357.68	IRWD Check	Reconciled
419209	24-Jun-21	CANNON CORPORATION	21,786.00	IRWD Check	Reconciled
419210	24-Jun-21	CANON FINANCIAL SERVICES, INC	7,260.63	IRWD Check	Reconciled
419211	24-Jun-21	CAROLLO ENGINEERS, INC	27,618.00	IRWD Check	Negotiable
419212	24-Jun-21	CHAIREL CUSTOM HAY, INC.	14,150.64	IRWD Check	Reconciled
419213	24-Jun-21	CHANG, PETER	50.75	IRWD Check	Reconciled
419214	24-Jun-21	CITY OF IRVINE	79,882.40	IRWD Check	Reconciled
419215	24-Jun-21	CLA-VAL COMPANY	19,051.90	IRWD Check	Reconciled
419216	24-Jun-21	COASTAL OCCUPATIONAL MEDICAL GROUP, INC.	148.15	IRWD Check	Negotiable
419217	24-Jun-21	COASTLINE EQUIPMENT COMPANY	506.86	IRWD Check	Reconciled
419218	24-Jun-21	CONSTELLATION NEWENERGY, INC.	574.30	IRWD Check	Negotiable
419219	24-Jun-21	CONTROLLED KEY SYSTEMS INC	20,768.06	IRWD Check	Reconciled
419220	24-Jun-21	CORA CONSTRUCTORS, INC	1,672.65	IRWD Check	Negotiable
419221	24-Jun-21	CROWN CASTLE INTERNATIONAL CORP.	810.35	IRWD Check	Reconciled
419222	24-Jun-21	D & G SIGNS	3,042.98	IRWD Check	Reconciled
419223	24-Jun-21	DE LA MORA, DAVID	98.50	IRWD Check	Negotiable
419224	24-Jun-21	DENALI WATER SOLUTIONS LLC	7,692.74	IRWD Check	Reconciled
419225	24-Jun-21	DIRECTV INC	146.99	IRWD Check	Reconciled
419226	24-Jun-21	DPR CONSTRUCTION	198.77	IRWD Check	Negotiable
419227	24-Jun-21	DRIVELINES INC	321.63	IRWD Check	Negotiable
419228	24-Jun-21	DUDEK	17,784.31	IRWD Check	Reconciled
419229	24-Jun-21	DUDLEY RIDGE WATER DISTRICT	91,353.34	IRWD Check	Negotiable
419230	24-Jun-21	DUKE'S ROOT CONTROL INC	38,487.55	IRWD Check	Negotiable
419231	24-Jun-21	ECO SERVICES OPERATIONS CORP.	5,531.86	IRWD Check	Reconciled
419232	24-Jun-21	EHS INTERNATIONAL,INC	760.00	IRWD Check	Reconciled
419233	24-Jun-21	ENVIRONMENTAL RESOURCE ASSOCIATES	3,865.76	IRWD Check	Reconciled
419234	24-Jun-21	ERIC H. CHYO	240.00	IRWD Check	Reconciled
419235	24-Jun-21	EUROFINS CALSCIENCE, LLC	1,827.00	IRWD Check	Negotiable
419236	24-Jun-21	EUROFINS EATON ANALYTICAL, INC.	300.00	IRWD Check	Negotiable
419237	24-Jun-21	FARSAI, MELEA	121.77	IRWD Check	Negotiable
419238	24-Jun-21	FEDEX	224.39	IRWD Check	Reconciled
419239	24-Jun-21	FERGUSON ENTERPRISES, LLC	646.28	IRWD Check	Reconciled
419240	24-Jun-21	FERREIRA CONSTRUCTION COMPANY, INC.	48,612.45	IRWD Check	Reconciled
419241	24-Jun-21	FIONA HUTTON & ASSOCIATES, INC.	6,603.75	IRWD Check	Negotiable

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419242	24-Jun-21	FIREHOSEDIRECT.COM	109.92	IRWD Check	Reconciled
419243	24-Jun-21	FISHER SCIENTIFIC COMPANY LLC	5,663.13	IRWD Check	Reconciled
419244	24-Jun-21	FOOTHILL/EASTERN TRANSPORTATION	4,650.00	IRWD Check	Reconciled
419245	24-Jun-21	FRONTIER CALIFORNIA INC.	623.60	IRWD Check	Reconciled
419246	24-Jun-21	GANAHL LUMBER CO.	2,790.73	IRWD Check	Negotiable
419247	24-Jun-21	GIRAS, JENNIFER	18.35	IRWD Check	Negotiable
419248	24-Jun-21	GRAINGER	5,747.44	IRWD Check	Reconciled
419249	24-Jun-21	GRAYBAR ELECTRIC COMPANY	423.02	IRWD Check	Reconciled
419250	24-Jun-21	GSRP ST SOLAR I LLC	14,272.38	IRWD Check	Reconciled
419251	24-Jun-21	HAAKER EQUIPMENT COMPANY	133.61	IRWD Check	Reconciled
419252	24-Jun-21	HACH COMPANY	6,118.30	IRWD Check	Reconciled
419253	24-Jun-21	HARPER & ASSOCIATES ENGINEERING INC	2,860.00	IRWD Check	Reconciled
419254	24-Jun-21	HAWKINS DELAFIELD & WOOD LLP	11,390.00	IRWD Check	Negotiable
419255	24-Jun-21	HDR ENGINEERING INC	17,353.75	IRWD Check	Reconciled
419256	24-Jun-21	HELPMATES STAFFING SERVICES	2,650.40	IRWD Check	Reconciled
419257	24-Jun-21	HENKELS & MCCOY, INC.	438.88	IRWD Check	Negotiable
419258	24-Jun-21	HERITAGE FIELDS EL TORO, LLC	102,930.79	IRWD Check	Negotiable
419259	24-Jun-21	HERITAGE FIELDS EL TORO, LLC	166.86	IRWD Check	Negotiable
419260	24-Jun-21	HI-LINE INC	243.28	IRWD Check	Reconciled
419261	24-Jun-21	HILL BROTHERS CHEMICAL COMPANY	17,024.68	IRWD Check	Negotiable
419262	24-Jun-21	HOME DEPOT USA INC	266.97	IRWD Check	Reconciled
419263	24-Jun-21	HORIZON ENGINEERING SYSTEMS LLC	4,240.00	IRWD Check	Negotiable
419264	24-Jun-21	HSG INC	1,951.00	IRWD Check	Reconciled
419265	24-Jun-21	IDEA HALL	20,994.66	IRWD Check	Negotiable
419266	24-Jun-21	IDEXX DISTRIBUTION, INC	7,139.18	IRWD Check	Reconciled
419267	24-Jun-21	IMPERIAL SPRINKLER SUPPLY, INC.	123.74	IRWD Check	Negotiable
419268	24-Jun-21	INTERNATIONAL ACCREDITATION SERVICE, INC	3,750.00	IRWD Check	Reconciled
419269	24-Jun-21	IRELAND INC.	6,798.94	IRWD Check	Reconciled
419270	24-Jun-21	IRVINE PIPE & SUPPLY INC	2,124.50	IRWD Check	Reconciled
419271	24-Jun-21	ISLE INC	18,000.00	IRWD Check	Reconciled
419272	24-Jun-21	J M ELECTRICAL SERVICES	4,600.00	IRWD Check	Negotiable
419273	24-Jun-21	JCI JONES CHEMICALS INC	3,500.46	IRWD Check	Reconciled
419274	24-Jun-21	JUST ENERGY SOLUTIONS INC.	2,662.91	IRWD Check	Reconciled
419275	24-Jun-21	KENT DAHLBERG	4,287.24	IRWD Check	Negotiable
419276	24-Jun-21	KONECRANES INC	1,711.40	IRWD Check	Reconciled
419277	24-Jun-21	KYLER JR., RICHARD K	142.74	IRWD Check	Negotiable
419278	24-Jun-21	LA HABRA FENCE COMPANY INC	1,456.00	IRWD Check	Negotiable
419279	24-Jun-21	LAGUNA BEACH COUNTY WATER DISTRICT	28,752.01	IRWD Check	Reconciled
419280	24-Jun-21	LANDCARE HOLDINGS, INC.	61,756.82	IRWD Check	Reconciled
419281	24-Jun-21	LINE-X OF SOUTH COAST	687.00	IRWD Check	Reconciled
419282	24-Jun-21	LU'S LIGHTHOUSE, INC.	3,490.63	IRWD Check	Reconciled
419283	24-Jun-21	LUBRICATION ENGINEERS, INC.	2,084.39	IRWD Check	Reconciled
419284	24-Jun-21	MARK ENTERPRISES TECHNOLOGIES LLC	30,377.06	IRWD Check	Reconciled
419285	24-Jun-21	MARTIN, WILLIAM R	53.33	IRWD Check	Negotiable
419286	24-Jun-21	MC FADDEN-DALE INDUSTRIAL	94.61	IRWD Check	Reconciled
419287	24-Jun-21	MC MASTER CARR SUPPLY CO	418.04	IRWD Check	Reconciled
419288	24-Jun-21	MICHAEL G. BISCHOF	120.00	IRWD Check	Reconciled
419289	24-Jun-21	MICROSOFT CORPORATION	1,355.99	IRWD Check	Reconciled
419290	24-Jun-21	MILES CHEMICAL COMPANY, INC.	5,406.62	IRWD Check	Reconciled
419291	24-Jun-21	MISCOWATER	4,905.90	IRWD Check	Negotiable
419292	24-Jun-21	MISSION COMMUNICATIONS, LLC	6,234.00	IRWD Check	Reconciled
419293	24-Jun-21	MRO ELECTRIC & SUPPLY CO.	9,842.00	IRWD Check	Reconciled
419294	24-Jun-21	MUNICIPAL UNDERGROUND SERVICES INC	16,250.00	IRWD Check	Reconciled
419295	24-Jun-21	MYERS & SONS HI-WAY SAFETY, INC.	2,894.17	IRWD Check	Reconciled
419296	24-Jun-21	NATIONAL READY MIXED CONCRETE SALES, LLC	2,120.58	IRWD Check	Reconciled
419297	24-Jun-21	NATURES IMAGE INC	4,050.00	IRWD Check	Reconciled
419298	24-Jun-21	NEGOV	425.00	IRWD Check	Reconciled
419299	24-Jun-21	NMG GEOTECHNICAL INC	2,414.60	IRWD Check	Negotiable
419300	24-Jun-21	O'REILLY AUTO ENTERPRISES, LLC	1,435.19	IRWD Check	Reconciled
419301	24-Jun-21	OLIN CORPORATION	36,186.08	IRWD Check	Reconciled
419302	24-Jun-21	ORACLE AMERICA, INC.	3,028.30	IRWD Check	Reconciled
419303	24-Jun-21	ORANGE COUNTY AUTO PARTS CO	1,538.45	IRWD Check	Reconciled
419304	24-Jun-21	PACIFIC HYDROTECH CORPORATION	16,369.90	IRWD Check	Negotiable
419305	24-Jun-21	PACIFIC HYDROTECH CORPORATION	311,028.13	IRWD Check	Reconciled
419306	24-Jun-21	PACIFIC STAR CHEMICAL, LLC	1,383.51	IRWD Check	Reconciled
419307	24-Jun-21	PACRIM ENGINEERING INC.	2,250.00	IRWD Check	Reconciled
419308	24-Jun-21	PARK, BRANDEN	25.00	IRWD Check	Negotiable
419309	24-Jun-21	PARKHOUSE TIRE INC	1,108.06	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT  
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<b>CHECK OR ELECTRONIC #</b>	<b>PAYMENT DATE</b>	<b>SUPPLIERS</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
419310	24-Jun-21	PARKWAY LAWNMOWER SHOP	808.65	IRWD Check	Negotiable
419311	24-Jun-21	PATRICIA R SANDERS	102.04	IRWD Check	Negotiable
419312	24-Jun-21	PAULUS ENGINEERING INC	193,293.73	IRWD Check	Negotiable
419313	24-Jun-21	PETRUSSE-NORRIS PAINTING, INC.	4,466.84	IRWD Check	Reconciled
419314	24-Jun-21	PFM FINANCIAL ADVISORS, LLC	912.50	IRWD Check	Negotiable
419315	24-Jun-21	PRAXAIR DISTRIBUTION INC	1,040.55	IRWD Check	Reconciled
419316	24-Jun-21	PREMIER PAVING INC.	1,731.22	IRWD Check	Reconciled
419317	24-Jun-21	PSOMAS	988.75	IRWD Check	Reconciled
419318	24-Jun-21	PTI SAND & GRAVEL INC	647.67	IRWD Check	Reconciled
419319	24-Jun-21	QI ZHENG	147.92	IRWD Check	Reconciled
419320	24-Jun-21	RAM AIR ENGINEERING INC	1,875.00	IRWD Check	Negotiable
419321	24-Jun-21	RED WING SHOE STORE	400.00	IRWD Check	Reconciled
419322	24-Jun-21	RENTOKIL NORTH AMERICA, INC	2,850.00	IRWD Check	Negotiable
419323	24-Jun-21	RINCON TRUCK CENTER INC.	525.93	IRWD Check	Reconciled
419324	24-Jun-21	RLG ENTERPRISES, INC	519.17	IRWD Check	Reconciled
419325	24-Jun-21	ROSE PAVING LLC	24,458.77	IRWD Check	Negotiable
419326	24-Jun-21	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	263.46	IRWD Check	Reconciled
419327	24-Jun-21	RYAN, EILEEN	24.33	IRWD Check	Negotiable
419328	24-Jun-21	SANTA ROSA APARTMENTS	98.89	IRWD Check	Negotiable
419329	24-Jun-21	SECURITAS SECURITY SERVICES USA, INC.	55,639.75	IRWD Check	Reconciled
419330	24-Jun-21	SERRANO WATER DISTRICT	12,500.00	IRWD Check	Reconciled
419331	24-Jun-21	SHAMROCK SUPPLY CO INC	87.14	IRWD Check	Reconciled
419332	24-Jun-21	SIGMA-ALDRICH INC	95.57	IRWD Check	Reconciled
419333	24-Jun-21	SIGNATURE FLOORING, INC	5,443.00	IRWD Check	Negotiable
419334	24-Jun-21	SOUTHERN CALIFORNIA EDISON COMPANY	268,939.84	IRWD Check	Reconciled
419335	24-Jun-21	SOUTHERN CALIFORNIA GAS COMPANY	3,455.83	IRWD Check	Negotiable
419336	24-Jun-21	SOUTHSIDE TOWING	1,000.00	IRWD Check	Negotiable
419337	24-Jun-21	STANTEC CONSULTING SERVICES INC.	47,988.66	IRWD Check	Reconciled
419338	24-Jun-21	STETSON ENGINEERS INC.	2,085.50	IRWD Check	Reconciled
419339	24-Jun-21	SUKLE ADVERTISING INC.	27,612.43	IRWD Check	Reconciled
419340	24-Jun-21	TAIT ENVIRONMENTAL SERVICES, INC.	420.00	IRWD Check	Reconciled
419341	24-Jun-21	THE CONVERSE PROFESSIONAL GROUP	4,142.50	IRWD Check	Reconciled
419342	24-Jun-21	THE FISHEL COMPANY	225.31	IRWD Check	Negotiable
419343	24-Jun-21	TICIC SUB LLC	861.87	IRWD Check	Negotiable
419344	24-Jun-21	TOTAL RESOURCE MANAGEMENT, INC	4,037.50	IRWD Check	Negotiable
419345	24-Jun-21	TRUCPARCO	61.90	IRWD Check	Negotiable
419346	24-Jun-21	UNIVAR SOLUTIONS USA INC.	1,012.85	IRWD Check	Reconciled
419347	24-Jun-21	US BANK NAT'L ASSOCIATION NORTH DAKOTA	49,766.14	IRWD Check	Reconciled
419348	24-Jun-21	VAUGHAN'S INDUSTRIAL REPAIR CO INC	48,041.80	IRWD Check	Reconciled
419349	24-Jun-21	VILORIA CONSTRUCTION	1,710.50	IRWD Check	Negotiable
419350	24-Jun-21	WATER MANAGEMENT GROUP	404.00	IRWD Check	Reconciled
419351	24-Jun-21	WAXIE'S ENTERPRISES, INC	1,440.34	IRWD Check	Reconciled
419352	24-Jun-21	WECK LABORATORIES INC	1,275.00	IRWD Check	Reconciled
419353	24-Jun-21	WEST COAST SAFETY SUPPLY INC	398.68	IRWD Check	Reconciled
419354	24-Jun-21	WEST YOST & ASSOCIATES, INC.	9,366.50	IRWD Check	Reconciled
419355	24-Jun-21	WIENHOFF & ASSOCIATES, INC	125.00	IRWD Check	Negotiable
419356	24-Jun-21	YANG, STANLEY	15.59	IRWD Check	Negotiable
419357	24-Jun-21	ZAMAN, ALI	266.61	IRWD Check	Reconciled
419358	24-Jun-21	ZEBRON CONTRACTING INC	39,575.00	IRWD Check	Reconciled
419359	24-Jun-21	ZHAI, XIUXIU	747.67	IRWD Check	Negotiable
419360	29-Jun-21	Bennett, Ray R (Ray)	61.41	IRWD Check	Negotiable
419361	29-Jun-21	Cortez, Malcolm A (Malcolm)	60.48	IRWD Check	Negotiable
419362	29-Jun-21	Donnelly, Stephen P (Stephen)	107.73	IRWD Check	Negotiable
419363	29-Jun-21	Oldewage, Lars D (Lars)	78.28	IRWD Check	Negotiable
419364	29-Jun-21	A&Y ASPHALT CONTRACTORS, INC.	12,701.00	IRWD Check	Negotiable
419365	29-Jun-21	AFLAC	2,227.70	IRWD Check	Negotiable
419366	29-Jun-21	AGILENT TECHNOLOGIES, INC.	180.32	IRWD Check	Negotiable
419367	29-Jun-21	AIRGAS, INC.	3,555.84	IRWD Check	Negotiable
419368	29-Jun-21	ALL STAR GLASS	575.39	IRWD Check	Negotiable
419369	29-Jun-21	ALLIANCE RESOURCE CONSULTING LLC	12,000.00	IRWD Check	Negotiable
419370	29-Jun-21	ALLIANT INSURANCE SERVICES, INC	9,687.00	IRWD Check	Negotiable
419371	29-Jun-21	ALSTON & BIRD LLP	38,849.99	IRWD Check	Negotiable
419372	29-Jun-21	AM CONSERVATION GROUP, INC.	145.40	IRWD Check	Negotiable
419373	29-Jun-21	AMAZON CAPITAL SERVICES, INC.	635.43	IRWD Check	Negotiable
419374	29-Jun-21	AMETEK BROOKFIELD	1,859.60	IRWD Check	Negotiable
419375	29-Jun-21	AMWINS GROUP BENEFITS INC.	3,924.84	IRWD Check	Negotiable
419376	29-Jun-21	ANTHEM BLUE CROSS	486.46	IRWD Check	Negotiable
419377	29-Jun-21	ANTHEM BLUE CROSS	486.46	IRWD Check	Negotiable

**IRVINE RANCH WATER DISTRICT  
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
419378	29-Jun-21	ANTHONY N. LARSEN	450.00	IRWD Check	Negotiable
419379	29-Jun-21	AQUA BEN CORPORATION	32,760.00	IRWD Check	Negotiable
419380	29-Jun-21	AT&T	201.98	IRWD Check	Negotiable
419381	29-Jun-21	AT&T	454.61	IRWD Check	Negotiable
419382	29-Jun-21	AT&T	60.31	IRWD Check	Negotiable
419383	29-Jun-21	ATLAS COPCO USA HOLDINGS, INC	925.43	IRWD Check	Negotiable
419384	29-Jun-21	AUTOZONE PARTS, INC.	205.66	IRWD Check	Negotiable
419385	29-Jun-21	BATTERY SYSTEMS INC	2.00	IRWD Check	Negotiable
419386	29-Jun-21	BEST BUY BUSINESS ADVANTAGE ACCOUNT	405.12	IRWD Check	Negotiable
419387	29-Jun-21	BEST DRILLING AND PUMP, INC.	26,695.00	IRWD Check	Negotiable
419388	29-Jun-21	BIGWIG MONSTER, LLC	600.00	IRWD Check	Negotiable
419389	29-Jun-21	BIOMAGIC INC	6,051.23	IRWD Check	Negotiable
419390	29-Jun-21	BORCHARD SURVEYING & MAPPING, INC.	800.00	IRWD Check	Negotiable
419391	29-Jun-21	BRENNTAG PACIFIC INC	23,336.50	IRWD Check	Negotiable
419392	29-Jun-21	BROWN AND CALDWELL	15,541.36	IRWD Check	Negotiable
419393	29-Jun-21	BRUCE HADLEY NEWELL	2,500.00	IRWD Check	Negotiable
419394	29-Jun-21	CALIFORNIA BANK & TRUST	22,487.92	IRWD Check	Negotiable
419395	29-Jun-21	CALIFORNIA BARRICADE RENTAL, INC.	30,857.64	IRWD Check	Negotiable
419396	29-Jun-21	CALIFORNIA WATER EFFICIENCY PARTNERSHIP	5,000.00	IRWD Check	Negotiable
419397	29-Jun-21	CANON SOLUTIONS AMERICA, INC.	12.38	IRWD Check	Negotiable
419398	29-Jun-21	CHARLES P CROWLEY COMPANY INC	651.68	IRWD Check	Negotiable
419399	29-Jun-21	CHEM TECH INTERNATIONAL INC	12,710.88	IRWD Check	Negotiable
419400	29-Jun-21	CITY OF NEWPORT BEACH	2,008.92	IRWD Check	Negotiable
419401	29-Jun-21	CITY OF ORANGE	250.68	IRWD Check	Negotiable
419402	29-Jun-21	CLA-VAL COMPANY	1,643.65	IRWD Check	Negotiable
419403	29-Jun-21	COASTAL IGNITION & CONTROLS, INC	3,397.30	IRWD Check	Negotiable
419404	29-Jun-21	COLONIAL LIFE & ACCIDENT INSURANCE CO.	1,103.26	IRWD Check	Negotiable
419405	29-Jun-21	CONSTELLATION NEWENERGY, INC.	5,000.85	IRWD Check	Negotiable
419406	29-Jun-21	COUNTY OF ORANGE	396.35	IRWD Check	Negotiable
419407	29-Jun-21	COX COMMUNICATIONS, INC.	3,425.46	IRWD Check	Negotiable
419408	29-Jun-21	D & G SIGNS	490.51	IRWD Check	Negotiable
419409	29-Jun-21	DEMARIA ELECTRIC MOTOR SERVICES, INC.	21,713.13	IRWD Check	Negotiable
419410	29-Jun-21	DG INVESTMENT INTERMEDIATE HOLDINGS 2, INC.	27,120.41	IRWD Check	Negotiable
419411	29-Jun-21	DILYTICS INC	2,250.00	IRWD Check	Negotiable
419412	29-Jun-21	DIRECTV INC	153.24	IRWD Check	Negotiable
419413	29-Jun-21	DISCOVERY SCIENCE CENTER OF ORANGE COUNTY	67,735.84	IRWD Check	Negotiable
419414	29-Jun-21	DUDLEY RIDGE WATER DISTRICT	16,187.13	IRWD Check	Negotiable
419415	29-Jun-21	EAST ORANGE COUNTY WATER DISTRICT	15,793.88	IRWD Check	Negotiable
419416	29-Jun-21	ELITE AUTOMOTIVE SERVICE, LLC	221.58	IRWD Check	Negotiable
419417	29-Jun-21	EMD MILLIPORE CORP.	773.21	IRWD Check	Negotiable
419418	29-Jun-21	ENVIRO-CHEM, INC.	840.00	IRWD Check	Negotiable
419419	29-Jun-21	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	19,883.75	IRWD Check	Negotiable
419420	29-Jun-21	ENVIRONMENTAL SCIENCE ASSOCIATES	25,126.15	IRWD Check	Negotiable
419421	29-Jun-21	EUROFINS CALSCIENCE, LLC	1,895.25	IRWD Check	Negotiable
419422	29-Jun-21	EVOQUA WATER TECHNOLOGIES LLC	128.05	IRWD Check	Negotiable
419423	29-Jun-21	EXECUTIVE LIGHTING & ELECTRIC	3,434.82	IRWD Check	Negotiable
419424	29-Jun-21	FARRELL & ASSOCIATES	193.75	IRWD Check	Negotiable
419425	29-Jun-21	FEDEX	169.26	IRWD Check	Negotiable
419426	29-Jun-21	FIRST CHOICE SERVICES	407.32	IRWD Check	Negotiable
419427	29-Jun-21	FISHER SCIENTIFIC COMPANY LLC	1,242.26	IRWD Check	Negotiable
419428	29-Jun-21	FULLER TRUCK ACCESSORIES	1,135.69	IRWD Check	Negotiable
419429	29-Jun-21	GALPIN MOTORS INC	34,743.00	IRWD Check	Negotiable
419430	29-Jun-21	GRAINGER	1,739.27	IRWD Check	Negotiable
419431	29-Jun-21	HACH COMPANY	2,502.46	IRWD Check	Negotiable
419432	29-Jun-21	HANSON BRIDGETT LLP	61,360.50	IRWD Check	Negotiable
419433	29-Jun-21	HARRINGTON INDUSTRIAL PLASTICS LLC	6,334.87	IRWD Check	Negotiable
419434	29-Jun-21	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	72.30	IRWD Check	Negotiable
419435	29-Jun-21	HELPMATES STAFFING SERVICES	3,714.40	IRWD Check	Negotiable
419436	29-Jun-21	HELPMATES STAFFING SERVICES LLC	1,176.12	IRWD Check	Negotiable
419437	29-Jun-21	HERITAGE FIELDS EL TORO, LLC	108,289.55	IRWD Check	Negotiable
419438	29-Jun-21	HI-LINE INC	369.83	IRWD Check	Negotiable
419439	29-Jun-21	HILL BROTHERS CHEMICAL COMPANY	791.98	IRWD Check	Negotiable
419440	29-Jun-21	HINSILBLON LTD	25,625.00	IRWD Check	Negotiable
419441	29-Jun-21	HOME DEPOT USA INC	500.30	IRWD Check	Negotiable
419442	29-Jun-21	HOMISCO, INC. AND SUBSIDIARY	988.75	IRWD Check	Negotiable
419443	29-Jun-21	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS	155.23	IRWD Check	Negotiable
419444	29-Jun-21	IRVINE PIPE & SUPPLY INC	1,793.02	IRWD Check	Negotiable
419445	29-Jun-21	JACK DOHENY COMPANIES INC	642.02	IRWD Check	Negotiable

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<b>CHECK OR ELECTRONIC #</b>	<b>PAYMENT DATE</b>	<b>SUPPLIERS</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
419446	29-Jun-21	JCI JONES CHEMICALS INC	6,487.76	IRWD Check	Negotiable
419447	29-Jun-21	KML ENTERPRISES CAREER DEVELOPMENT, LLC	20,000.00	IRWD Check	Negotiable
419448	29-Jun-21	KRONICK MOSKOVITZ TIEDEMANN & GIRARD	19,899.49	IRWD Check	Negotiable
419449	29-Jun-21	KUTAK ROCK LLP	355.50	IRWD Check	Negotiable
419450	29-Jun-21	LA HABRA FENCE COMPANY INC	18,890.00	IRWD Check	Negotiable
419451	29-Jun-21	LAGUNA BEACH COUNTY WATER DISTRICT	6,803.30	IRWD Check	Negotiable
419452	29-Jun-21	LANDCARE HOLDINGS, INC.	169,819.11	IRWD Check	Negotiable
419453	29-Jun-21	LIEBERT CASSIDY WHITMORE	1,224.00	IRWD Check	Negotiable
419454	29-Jun-21	LILLESTRAND LEADERSHIP CONSULTING, INC.	1,760.00	IRWD Check	Negotiable
419455	29-Jun-21	LINDSAY POLIC CONSULTING, INC.	7,900.00	IRWD Check	Negotiable
419456	29-Jun-21	LU'S LIGHTHOUSE, INC.	148.28	IRWD Check	Negotiable
419457	29-Jun-21	MC MASTER CARR SUPPLY CO	441.92	IRWD Check	Negotiable
419458	29-Jun-21	MERRIMAC PETROLEUM, INC.	16,098.41	IRWD Check	Negotiable
419459	29-Jun-21	MICHAEL BAKER INTERNATIONAL, INC.	32,312.00	IRWD Check	Negotiable
419460	29-Jun-21	MSDSOONLINE, INC.	4,700.00	IRWD Check	Negotiable
419461	29-Jun-21	NEPTUNE TECHNOLOGY GROUP, INC.	40,341.60	IRWD Check	Negotiable
419462	29-Jun-21	O'REILLY AUTO ENTERPRISES, LLC	13.37	IRWD Check	Negotiable
419463	29-Jun-21	OLIN CORPORATION	36,201.45	IRWD Check	Negotiable
419464	29-Jun-21	ORANGE COUNTY AUTO PARTS CO	944.88	IRWD Check	Negotiable
419465	29-Jun-21	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	1,703.26	IRWD Check	Negotiable
419466	29-Jun-21	ORANGE LINE OIL COMPANY	2,094.89	IRWD Check	Negotiable
419467	29-Jun-21	PACIFIC HYDROTECH CORPORATION	9,752.38	IRWD Check	Negotiable
419468	29-Jun-21	PACIFIC HYDROTECH CORPORATION	185,295.22	IRWD Check	Negotiable
419469	29-Jun-21	PACIFIC PARTS & CONTROLS INC	447.67	IRWD Check	Negotiable
419470	29-Jun-21	PACIFIC STAR CHEMICAL, LLC	2,897.81	IRWD Check	Negotiable
419471	29-Jun-21	PARKHOUSE TIRE INC	2,911.30	IRWD Check	Negotiable
419472	29-Jun-21	PASCAL & LUDWIG CONSTRUCTORS	144,267.31	IRWD Check	Negotiable
419473	29-Jun-21	PASCAL & LUDWIG CONSTRUCTORS	7,593.02	IRWD Check	Negotiable
419474	29-Jun-21	PELLETIER & ASSOCIATES, INC.	315.00	IRWD Check	Negotiable
419475	29-Jun-21	POLLARDWATER.COM	561.98	IRWD Check	Negotiable
419476	29-Jun-21	PRAXAIR DISTRIBUTION INC	154.32	IRWD Check	Negotiable
419477	29-Jun-21	PRE-PAID LEGAL SERVICES, INC.	970.03	IRWD Check	Negotiable
419478	29-Jun-21	PRUDENTIAL OVERALL SUPPLY	7,769.91	IRWD Check	Negotiable
419479	29-Jun-21	PTI SAND & GRAVEL INC	613.47	IRWD Check	Negotiable
419480	29-Jun-21	PURE PROCESS FILTRATION INC	7,444.01	IRWD Check	Negotiable
419481	29-Jun-21	QUINN COMPANY	9,547.26	IRWD Check	Negotiable
419482	29-Jun-21	REACH EMPLOYEE ASSISTANCE INC	1,078.00	IRWD Check	Negotiable
419483	29-Jun-21	REAL WATER CONSULTANTS INC.	29,388.00	IRWD Check	Negotiable
419484	29-Jun-21	RED WING SHOE STORE	183.16	IRWD Check	Negotiable
419485	29-Jun-21	RELIANCE SAFETY CONSULTANTS, INC.	1,600.00	IRWD Check	Negotiable
419486	29-Jun-21	RELIANCE STANDARD LIFE INSURANCE COMPANY	30,332.67	IRWD Check	Negotiable
419487	29-Jun-21	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	18,793.72	IRWD Check	Negotiable
419488	29-Jun-21	S&S SEEDS INC	8,982.57	IRWD Check	Negotiable
419489	29-Jun-21	SHAMROCK SUPPLY CO INC	716.06	IRWD Check	Negotiable
419490	29-Jun-21	SOFTWAREONE INC	2,062.50	IRWD Check	Negotiable
419491	29-Jun-21	SOUTH COAST WATER DISTRICT	21,050.06	IRWD Check	Negotiable
419492	29-Jun-21	SOUTHERN CALIFORNIA EDISON COMPANY	491,152.47	IRWD Check	Negotiable
419493	29-Jun-21	SOUTHLAND WATER TECHNOLOGIES LLC	1,626.25	IRWD Check	Negotiable
419494	29-Jun-21	SOUTHWEST VALVE & EQUIPMENT INC	1,889.29	IRWD Check	Negotiable
419495	29-Jun-21	SPARKLETT'S	148.54	IRWD Check	Negotiable
419496	29-Jun-21	STANTEC CONSULTING SERVICES INC.	2,700.00	IRWD Check	Negotiable
419497	29-Jun-21	STETSON ENGINEERS INC.	4,425.66	IRWD Check	Negotiable
419498	29-Jun-21	SUKLE ADVERTISING INC.	112.50	IRWD Check	Negotiable
419499	29-Jun-21	SUPPORT PRODUCT SERVICES, INC	446.86	IRWD Check	Negotiable
419500	29-Jun-21	T.E. ROBERTS, INC.	66,539.90	IRWD Check	Negotiable
419501	29-Jun-21	TAIT ENVIRONMENTAL SERVICES, INC.	6,211.58	IRWD Check	Negotiable
419502	29-Jun-21	THE PAPE' GROUP INC.	953.95	IRWD Check	Negotiable
419503	29-Jun-21	TK ELEVATOR CORPORATION	211.44	IRWD Check	Negotiable
419504	29-Jun-21	TRI COUNTY PUMP COMPANY	7,649.55	IRWD Check	Negotiable
419505	29-Jun-21	TRIPAC MARKETING INC	3,212.76	IRWD Check	Negotiable
419506	29-Jun-21	TRUKSPECT, INC	1,807.92	IRWD Check	Negotiable
419507	29-Jun-21	UNITED PARCEL SERVICE INC	318.14	IRWD Check	Negotiable
419508	29-Jun-21	UNIVAR SOLUTIONS USA INC.	5,696.40	IRWD Check	Negotiable
419509	29-Jun-21	USA WASTE OF CALIFORNIA, INC.	542.50	IRWD Check	Negotiable
419510	29-Jun-21	VAUGHAN'S INDUSTRIAL REPAIR CO INC	43,351.17	IRWD Check	Negotiable
419511	29-Jun-21	VERIZON WIRELESS SERVICES LLC	1,630.25	IRWD Check	Negotiable
419512	29-Jun-21	VHG LABS, INC	425.62	IRWD Check	Negotiable
419513	29-Jun-21	VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV	241,015.00	IRWD Check	Negotiable

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR JUN 2021**

<b>CHECK OR ELECTRONIC #</b>	<b>PAYMENT DATE</b>	<b>SUPPLIERS</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
419514	29-Jun-21	VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV	12,685.00	IRWD Check	Negotiable
419515	29-Jun-21	VWR INTERNATIONAL, LLC	5,729.80	IRWD Check	Negotiable
419516	29-Jun-21	WATER TREATMENT CHEMICALS INC	12,016.96	IRWD Check	Negotiable
419517	29-Jun-21	WATERLINE TECHNOLOGIES INC	3,400.00	IRWD Check	Negotiable
419518	29-Jun-21	WECK LABORATORIES INC	1,550.00	IRWD Check	Negotiable
419519	29-Jun-21	WEST YOST & ASSOCIATES, INC.	61,660.75	IRWD Check	Negotiable
419520	29-Jun-21	YORKE ENGINEERING, LLC	2,747.50	IRWD Check	Negotiable
419521	30-Jun-21	Aguilar, Alex L (Alex)	-	IRWD Check	Negotiable
419522	30-Jun-21	Armstrong, Ashley	-	IRWD Check	Negotiable
419523	30-Jun-21	Beltran, Scott A (Scott)	-	IRWD Check	Negotiable
419524	30-Jun-21	Bendzick-Sin, Julie M (Julie)	-	IRWD Check	Negotiable
419525	30-Jun-21	Bonkowski, Leslie A (Leslie)	-	IRWD Check	Negotiable
419526	30-Jun-21	Bowers, Marie	-	IRWD Check	Negotiable
419527	30-Jun-21	Brown, Richard E (Richard)	-	IRWD Check	Negotiable
419528	30-Jun-21	Burton, Kevin L (Kevin)	-	IRWD Check	Negotiable
419529	30-Jun-21	Cervantes, Isela J	-	IRWD Check	Negotiable
419530	30-Jun-21	Chambers, Wendy	-	IRWD Check	Negotiable
419531	30-Jun-21	Chaney, Michael A (Michael)	-	IRWD Check	Negotiable
419532	30-Jun-21	Chauv, Denise	486.00	IRWD Check	Negotiable
419533	30-Jun-21	Clary, Cheryl L	-	IRWD Check	Negotiable
419534	30-Jun-21	Colston, James	-	IRWD Check	Negotiable
419535	30-Jun-21	Compton, Christine A	-	IRWD Check	Negotiable
419536	30-Jun-21	Cook, Paul A (Paul)	-	IRWD Check	Negotiable
419537	30-Jun-21	Crowe, David M (David)	-	IRWD Check	Negotiable
419538	30-Jun-21	Dayer, John G (John)	-	IRWD Check	Negotiable
419539	30-Jun-21	Denhaan, Robert E	-	IRWD Check	Negotiable
419540	30-Jun-21	Drzymkowski, Michele A (Michele)	192.00	IRWD Check	Negotiable
419541	30-Jun-21	Duarte, Elizabeth (Elizabeth)	-	IRWD Check	Negotiable
419542	30-Jun-21	Escobar, Omar (Omar)	-	IRWD Check	Negotiable
419543	30-Jun-21	Fabris, John	-	IRWD Check	Negotiable
419544	30-Jun-21	Faulds, Jonathan	-	IRWD Check	Negotiable
419545	30-Jun-21	Flotho, Eric (Eric)	-	IRWD Check	Negotiable
419546	30-Jun-21	Garcia, Dorys Elizabeth	-	IRWD Check	Negotiable
419547	30-Jun-21	Garza, Gaspar	-	IRWD Check	Negotiable
419548	30-Jun-21	Haney, Lisa	-	IRWD Check	Negotiable
419549	30-Jun-21	Hastings, Nola	-	IRWD Check	Negotiable
419550	30-Jun-21	Henton-Hall, Andrea T	-	IRWD Check	Negotiable
419551	30-Jun-21	Ho, Connie	-	IRWD Check	Negotiable
419552	30-Jun-21	Jacobson, Robert C (Rob)	-	IRWD Check	Negotiable
419553	30-Jun-21	Jordan, Dawn M (Dawn)	-	IRWD Check	Negotiable
419554	30-Jun-21	Martin, Colton S (Colton)	-	IRWD Check	Negotiable
419555	30-Jun-21	McElroy, Dorien	-	IRWD Check	Negotiable
419556	30-Jun-21	Mendoza, Evelyn	-	IRWD Check	Negotiable
419557	30-Jun-21	Mitcham, Tiffany A	-	IRWD Check	Negotiable
419558	30-Jun-21	Montejano, Graciela (Grace)	-	IRWD Check	Negotiable
419559	30-Jun-21	Mourant, Barbara J (Barbara)	-	IRWD Check	Negotiable
419560	30-Jun-21	Muncy, Jessie A	-	IRWD Check	Negotiable
419561	30-Jun-21	Mykitta, Richard	-	IRWD Check	Negotiable
419562	30-Jun-21	Nguyen, Chau	-	IRWD Check	Negotiable
419563	30-Jun-21	Norman, Tammy	-	IRWD Check	Negotiable
419564	30-Jun-21	O'Neill, Owen H	-	IRWD Check	Negotiable
419565	30-Jun-21	Pio, Christine R (Chris)	-	IRWD Check	Negotiable
419566	30-Jun-21	Prewoznik, Frank	-	IRWD Check	Negotiable
419567	30-Jun-21	Pulles, Margaret M (Margaret)	-	IRWD Check	Negotiable
419568	30-Jun-21	Rivenburg, Deniene H	-	IRWD Check	Negotiable
419569	30-Jun-21	Roney, Jenny Lauren	-	IRWD Check	Negotiable
419570	30-Jun-21	Ruiz, Ricky (Ricky)	-	IRWD Check	Negotiable
419571	30-Jun-21	Sanchez, Fiona M (Fiona)	-	IRWD Check	Negotiable
419572	30-Jun-21	Sciabica, Joseph	-	IRWD Check	Negotiable
419573	30-Jun-21	Shinbashi, Allen	-	IRWD Check	Negotiable
419574	30-Jun-21	Sqyres, Diane M (Diane)	-	IRWD Check	Negotiable
419575	30-Jun-21	Srader, Lisa	-	IRWD Check	Negotiable
419576	30-Jun-21	Swan, Kristine	-	IRWD Check	Negotiable
419577	30-Jun-21	Swift, Ian P (Ian)	-	IRWD Check	Negotiable
419578	30-Jun-21	Teran, Mariaelena	-	IRWD Check	Negotiable
419579	30-Jun-21	Vanderploeg, Gina V	-	IRWD Check	Negotiable
419580	30-Jun-21	Weghorst, Paul A (Paul)	-	IRWD Check	Negotiable
419581	30-Jun-21	Zuniga, Emilyn Buenafe	-	IRWD Check	Negotiable

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR JUN 2021**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
419582	30-Jun-21	ABSOLUTE STANDARDS, INC.	115.00	IRWD Check	Negotiable
419583	30-Jun-21	ACCUSTANDARD INC	151.67	IRWD Check	Negotiable
419584	30-Jun-21	ALL STAR GLASS	609.01	IRWD Check	Negotiable
419585	30-Jun-21	ALSO ENERGY, INC.	1,435.07	IRWD Check	Negotiable
419586	30-Jun-21	AMAZON CAPITAL SERVICES, INC.	455.58	IRWD Check	Negotiable
419587	30-Jun-21	AT&T	4,673.91	IRWD Check	Negotiable
419588	30-Jun-21	BARTEL ASSOCIATES, LLC	4,431.00	IRWD Check	Negotiable
419589	30-Jun-21	BATTERIES PLUS AND BATTERIES PLUS BULBS	86.18	IRWD Check	Negotiable
419590	30-Jun-21	BIGWIG MONSTER, LLC	6,000.00	IRWD Check	Negotiable
419591	30-Jun-21	BLACK & VEATCH CORPORATION	36,497.86	IRWD Check	Negotiable
419592	30-Jun-21	BLYTHE CANCER RESOURCE CENTER	100.00	IRWD Check	Negotiable
419593	30-Jun-21	CALIFORNIA TRUCK EQUIPMENT COMPANY	9,010.08	IRWD Check	Negotiable
419594	30-Jun-21	CAPTIVE AUDIENCE MARKETING INC.	79.00	IRWD Check	Negotiable
419595	30-Jun-21	CITY OF IRVINE	7,530.40	IRWD Check	Negotiable
419596	30-Jun-21	CLARIS STRATEGY INC.	2,287.50	IRWD Check	Negotiable
419597	30-Jun-21	CONSTELLATION NEWENERGY, INC.	9,866.05	IRWD Check	Negotiable
419598	30-Jun-21	COOMBS SERVICE GROUP	71,600.00	IRWD Check	Negotiable
419599	30-Jun-21	COX COMMUNICATIONS, INC.	129.48	IRWD Check	Negotiable
419600	30-Jun-21	DEX MEDIA, INC.	91.00	IRWD Check	Negotiable
419601	30-Jun-21	DWYER INSTRUMENTS INC	2,093.68	IRWD Check	Negotiable
419602	30-Jun-21	ENVIRONMENTAL EXPRESS INC	1,492.61	IRWD Check	Negotiable
419603	30-Jun-21	ENVIRONMENTAL RESOURCE ASSOCIATES	131.80	IRWD Check	Negotiable
419604	30-Jun-21	EPPENDORF NORTH AMERICA INC	63.00	IRWD Check	Negotiable
419605	30-Jun-21	EUROFINS CALSCIENCE, LLC	1,722.00	IRWD Check	Negotiable
419606	30-Jun-21	FERGUSON ENTERPRISES, LLC	16,196.15	IRWD Check	Negotiable
419607	30-Jun-21	FISERV SOLUTIONS, LLC	27,290.55	IRWD Check	Negotiable
419608	30-Jun-21	FISHER SCIENTIFIC COMPANY LLC	487.98	IRWD Check	Negotiable
419609	30-Jun-21	GM SAGER CONSTRUCTION CO,INC.	46,600.00	IRWD Check	Negotiable
419610	30-Jun-21	GRAINGER	3,756.91	IRWD Check	Negotiable
419611	30-Jun-21	HACH COMPANY	3,416.48	IRWD Check	Negotiable
419612	30-Jun-21	HANNA INSTRUMENTS UNITED STATES, INC	1,713.23	IRWD Check	Negotiable
419613	30-Jun-21	HARBINGER HOMES, INC	61.37	IRWD Check	Voided
419614	30-Jun-21	HELPMATES STAFFING SERVICES	1,325.20	IRWD Check	Negotiable
419615	30-Jun-21	HOME DEPOT USA INC	570.38	IRWD Check	Negotiable
419616	30-Jun-21	iLAND INTERNET SOLUTION CORPORATION	11,892.00	IRWD Check	Negotiable
419617	30-Jun-21	IRVINE PIPE & SUPPLY INC	481.34	IRWD Check	Negotiable
419618	30-Jun-21	KENT DAHLBERG	8,421.68	IRWD Check	Negotiable
419619	30-Jun-21	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES	2,250.00	IRWD Check	Negotiable
419620	30-Jun-21	KONECRANES INC	4,588.00	IRWD Check	Negotiable
419621	30-Jun-21	LA HABRA FENCE COMPANY INC	13,272.00	IRWD Check	Negotiable
419622	30-Jun-21	LANCER SALES USA, INC.	538.79	IRWD Check	Negotiable
419623	30-Jun-21	LAYTON CONSTRUCTION COMPANY, LLC	44,640.00	IRWD Check	Negotiable
419624	30-Jun-21	LUBRICATION ENGINEERS, INC.	2,088.24	IRWD Check	Negotiable
419625	30-Jun-21	MATHESON TRI GAS, INC	25.72	IRWD Check	Negotiable
419626	30-Jun-21	MBC AQUATIC SCIENCES, INC.	1,350.00	IRWD Check	Negotiable
419627	30-Jun-21	MC FADDEN-DALE INDUSTRIAL	92.96	IRWD Check	Negotiable
419628	30-Jun-21	MC MASTER CARR SUPPLY CO	178.85	IRWD Check	Negotiable
419629	30-Jun-21	MERRIMAC PETROLEUM, INC.	37,424.18	IRWD Check	Negotiable
419630	30-Jun-21	OLIN CORPORATION	3,142.62	IRWD Check	Negotiable
419631	30-Jun-21	ORACLE AMERICA, INC.	4,210.47	IRWD Check	Negotiable
419632	30-Jun-21	ORANGE COUNTY AUTO PARTS CO	107.45	IRWD Check	Negotiable
419633	30-Jun-21	ORANGE COUNTY FIRE AUTHORITY	225.00	IRWD Check	Negotiable
419634	30-Jun-21	PARKHOUSE TIRE INC	513.86	IRWD Check	Negotiable
419635	30-Jun-21	PAYMENTUS GROUP INC.	64,661.47	IRWD Check	Negotiable
419636	30-Jun-21	PEWTERBAUGH, JOEL	37.11	IRWD Check	Negotiable
419637	30-Jun-21	PRAXAIR DISTRIBUTION INC	1,906.48	IRWD Check	Negotiable
419638	30-Jun-21	QUINN RENTAL SERVICES	6,865.85	IRWD Check	Negotiable
419639	30-Jun-21	RICHARD C. SLADE & ASSOCIATES LLC	3,976.36	IRWD Check	Negotiable
419640	30-Jun-21	SANTA ANA BLUE PRINT	180.03	IRWD Check	Negotiable
419641	30-Jun-21	SOUTH ORANGE COUNTY REGIONAL CHAMBERS OF COMMERCE	500.00	IRWD Check	Negotiable
419642	30-Jun-21	SOUTHERN CALIFORNIA EDISON COMPANY	219.54	IRWD Check	Negotiable
419643	30-Jun-21	SPATIAL WAVE, INC.	2,990.00	IRWD Check	Negotiable
419644	30-Jun-21	STETSON ENGINEERS INC.	2,518.50	IRWD Check	Negotiable
419645	30-Jun-21	TANKVISIONS, INC	30.00	IRWD Check	Negotiable
419646	30-Jun-21	THOMPSON & PHIPPS INC	3,008.01	IRWD Check	Negotiable
419647	30-Jun-21	TIMOTHY W. HOGAN	4,039.77	IRWD Check	Negotiable
419648	30-Jun-21	TODAY REAL ESTATE	14.30	IRWD Check	Negotiable
419649	30-Jun-21	VERIZON WIRELESS SERVICES LLC	14,892.03	IRWD Check	Negotiable

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR JUN 2021**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
419650	30-Jun-21	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	490.18	IRWD Check	Negotiable
419651	30-Jun-21	WATERSMART SOFTWARE INC	13,547.23	IRWD Check	Negotiable
419652	30-Jun-21	WEST YOST & ASSOCIATES, INC.	11,925.25	IRWD Check	Negotiable
419653	30-Jun-21	WOODARD & CURRAN INC	10,586.50	IRWD Check	Negotiable
<b>SUB-TOTAL CHECK DISBURSEMENTS</b>			<b>13,652,924.03</b>		
14378	1-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	19,495.68	IRWD Wire	Negotiable
14379	1-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	3,735.68	IRWD Wire	Negotiable
14380	3-Jun-21	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	180,882.61	IRWD Wire	Negotiable
14381	3-Jun-21	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	2,311.47	IRWD Wire	Negotiable
14382	3-Jun-21	INTERNAL REVENUE SERVICE	220,694.60	IRWD Wire	Negotiable
14383	3-Jun-21	EMPLOYMENT DEVELOPMENT DEPARTMENT	1,854.81	IRWD Wire	Negotiable
14384	3-Jun-21	FRANCHISE TAX BOARD	67,274.72	IRWD Wire	Negotiable
14385	3-Jun-21	EMPLOYMENT DEVELOPMENT DEPARTMENT	19,602.22	IRWD Wire	Negotiable
14386	3-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	1,513.45	IRWD Wire	Negotiable
14387	3-Jun-21	CALPERS	3,140.28	IRWD Wire	Negotiable
14388	3-Jun-21	CALPERS	565,176.62	IRWD Wire	Negotiable
14389	3-Jun-21	CALPERS	253,178.30	IRWD Wire	Negotiable
14390	7-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	936.49	IRWD Wire	Negotiable
14391	7-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	2,321.55	IRWD Wire	Negotiable
14392	8-Jun-21	YORK INSURANCE SERVICES GROUP INC - CA	8,290.69	IRWD Wire	Negotiable
14393	8-Jun-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	5,368.10	IRWD Wire	Negotiable
14394	8-Jun-21	BANK OF AMERICA	560.90	IRWD Wire	Negotiable
14395	8-Jun-21	U.S. BANK NATIONAL ASSOCIATION	862.95	IRWD Wire	Negotiable
14396	9-Jun-21	CALPERS	1,529.52	IRWD Wire	Negotiable
14397	10-Jun-21	SUMITOMO MITSUI BANKING CORPORATION	2,872.60	IRWD Wire	Negotiable
14398	10-Jun-21	U.S. BANK NATIONAL ASSOCIATION	353.25	IRWD Wire	Negotiable
14399	14-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	2,470.50	IRWD Wire	Negotiable
14400	14-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	6,518.93	IRWD Wire	Negotiable
14401	14-Jun-21	WELLS FARGO BANK, N.A.	6,011.12	IRWD Wire	Negotiable
14402	14-Jun-21	WAGENER LAW, A PROFESSIONAL CORPORATION	10,000.00	IRWD Wire	Negotiable
14403	15-Jun-21	YORK INSURANCE SERVICES GROUP INC - CA	4,996.07	IRWD Wire	Negotiable
14404	16-Jun-21	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	1,069,856.32	IRWD Wire	Negotiable
14405	16-Jun-21	CALPERS	253,043.93	IRWD Wire	Negotiable
14406	17-Jun-21	INTERNAL REVENUE SERVICE	241,768.72	IRWD Wire	Negotiable
14407	17-Jun-21	FRANCHISE TAX BOARD	74,745.44	IRWD Wire	Negotiable
14408	17-Jun-21	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	181,315.70	IRWD Wire	Negotiable
14409	17-Jun-21	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	2,311.47	IRWD Wire	Negotiable
14410	17-Jun-21	EMPLOYMENT DEVELOPMENT DEPARTMENT	19,706.12	IRWD Wire	Negotiable
14411	21-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	7,116.17	IRWD Wire	Negotiable
14412	21-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	915.15	IRWD Wire	Negotiable
14413	22-Jun-21	YORK INSURANCE SERVICES GROUP INC - CA	5,700.00	IRWD Wire	Negotiable
14414	22-Jun-21	BANK OF AMERICA MERRILL LYNCH	92,666.73	IRWD Wire	Negotiable
14415	22-Jun-21	EMPLOYMENT DEVELOPMENT DEPARTMENT	1,752.00	IRWD Wire	Negotiable
14416	22-Jun-21	INTERNAL REVENUE SERVICE	16,314.11	IRWD Wire	Negotiable
14417	22-Jun-21	FRANCHISE TAX BOARD	2,555.28	IRWD Wire	Negotiable
14418	23-Jun-21	WILLIAMS, TERRI	42.25	IRWD Wire	Negotiable
14419	24-Jun-21	EMPLOYMENT DEVELOPMENT DEPARTMENT	3.00	IRWD Wire	Negotiable
14420	24-Jun-21	INTERNAL REVENUE SERVICE	17.05	IRWD Wire	Negotiable
14421	28-Jun-21	REGENTS OF THE UNIVERSITY OF CALIFORNIA	10,000.00	IRWD Wire	Negotiable
14422	28-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	4,412.05	IRWD Wire	Negotiable
14423	28-Jun-21	CHARD SNYDER & ASSOCIATES, INC.	5,050.75	IRWD Wire	Negotiable
14424	29-Jun-21	YORK INSURANCE SERVICES GROUP INC - CA	4,049.54	IRWD Wire	Negotiable
14425	29-Jun-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	15,438.18	IRWD Wire	Negotiable
14426	29-Jun-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	89,813.54	IRWD Wire	Negotiable
<b>SUB-TOTAL ELECTRONIC DISBURSEMENTS</b>			<b>3,490,546.61</b>		
<b>SUB-TOTAL AP CHECK AND ELECTRONIC DISBURSEMENTS</b>			<b>17,143,470.64</b>		
<b>SUB-TOTAL CHECK AND ELECTRONIC ISSUED AND VOIDED IN JUN 2021</b>			<b>38.14</b>	IRWD Check	Voided
<b>SUB-TOTAL CHECK AND ELECTRONIC ISSUED AND VOIDED IN JUN 2021</b>			<b>38.14</b>		
<b>TOTAL AP DISBURSEMENTS AND VOIDS FOR JUN 2021</b>			<b>17,143,432.50</b>		

Exhibit "E"

**MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS**

**June  
2021**

	AMOUNT	VENDOR	PURPOSE
6/4/2021	1,064,208.32	BANK OF AMERICA	ACH Payments for Payroll
6/18/2021	1,114,490.61	BANK OF AMERICA	ACH Payments for Payroll
	<u><b>\$2,178,698.93</b></u>		

Note: This page is intentionally left blank.

## 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-JUN-21 to 30-JUN-21

NAME	CHECK NO.	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Berry, Wyatt	419180	17-Jun-21	190.00	Certification Renewal	CWEA Mechanical Technologist Grade II
Chauv, Denise	419532	30-Jun-21	294.00	Membership Renewal	AWWA membership
Chauv, Denise	419532	30-Jun-21	192.00	Membership Renewal	CWEA membership
Cho, Harry	419181	24-Jun-21	180.00	Certification Renewal	Professional Engineers license renewal
Donnelly, Stephen	419182	24-Jun-21	110.00	Certification Renewal	SWRCB Water Treatment Grade II
Donnelly, Stephen	419362	29-Jun-21	107.73	Other(Misc)	Safety Shoe Allowance
Drzymkowski, Michele	419540	30-Jun-21	192.00	Membership Renewal	CWEA membership
Garza, Gaspar	419183	24-Jun-21	150.00	Certification Renewal	SWRCB Wastewater Plant Operator Grade V
Hoffman, Michael	418777	10-Jun-21	192.00	Membership Renewal	CWEA membership
Legault, Dan	419184	24-Jun-21	200.00	Other(Misc)	Safety Shoe Allowance
McElroy, Dorian	418991	10-Jun-21	106.00	Certification Renewal	CWEA Collection System Maintenance Grade IV
Parra, Dennis	419179	17-Jun-21	192.00	Membership Renewal	CWEA membership
Silva, Jose A	419185	24-Jun-21	192.00	Membership Renewal	CWEA membership
Strunk, Robert	418630	3-Jun-21	184.69	Other(Misc)	Safety Shoe Allowance
<b>Total Amount:</b>			<b>\$2,482.42</b>		

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July 26, 2021

Prepared by: D. Pardee / C. Smithson

Submitted by: C. Clary

Approved by: Paul A. Cook 

CONSENT CALENDAR

IRWD STRATEGIC MEASURES

SUMMARY:

Provided as Exhibit “A” are the IRWD Strategic Measures and informational items for the Board’s review. These measures are intended to reflect the critical performance measures that gauge the District’s key business objectives.

BACKGROUND:

The proposed strategic measures document summarizes several operating performance, financial, customer and other key measures important to the ongoing operation of the District. These measures were selected and designed to provide a “snapshot” view of the measures that would be of interest to the Board.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

Exhibit “A” – Q4 2021 Strategic Measures

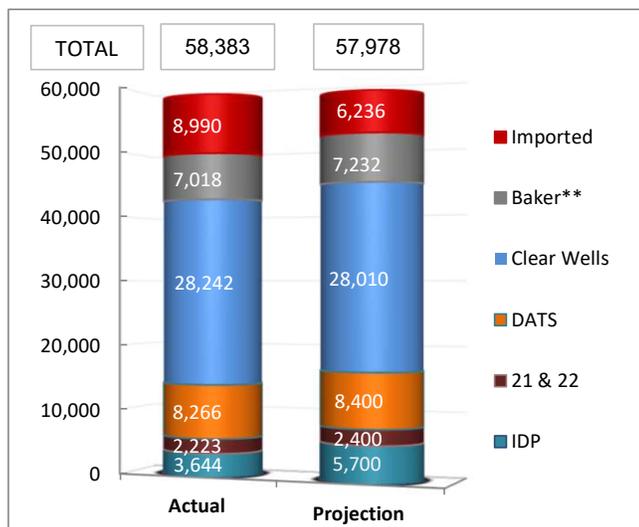
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# IRVINE RANCH WATER DISTRICT

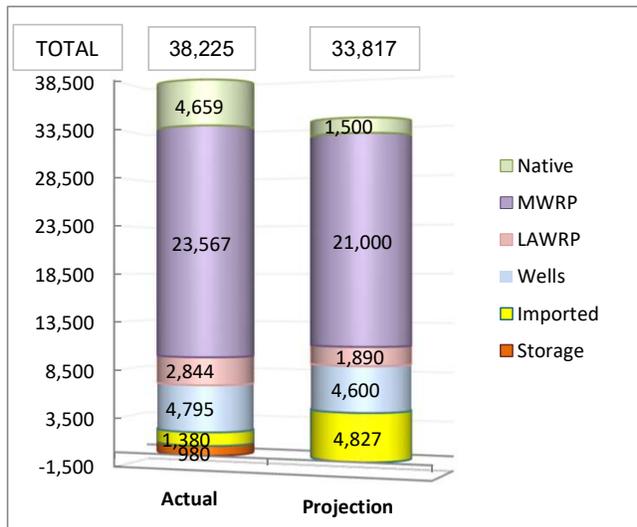
## Operational Performance Measures

Data as of June 30, 2021

Potable Water Production FYTD  
(AF)



Non-Potable Water Production FYTD  
(AF)

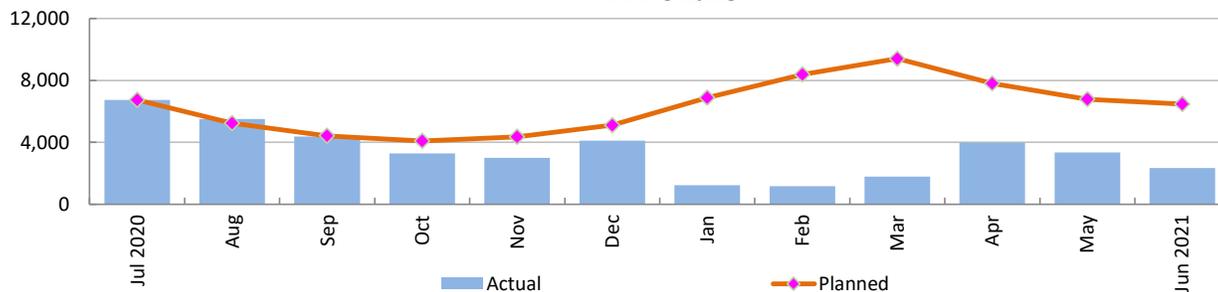


\*\* Baker was supplied with 1,675 AF of native water. IRWD received 404 AF (24.1%) This is included in both potable and non potable production.

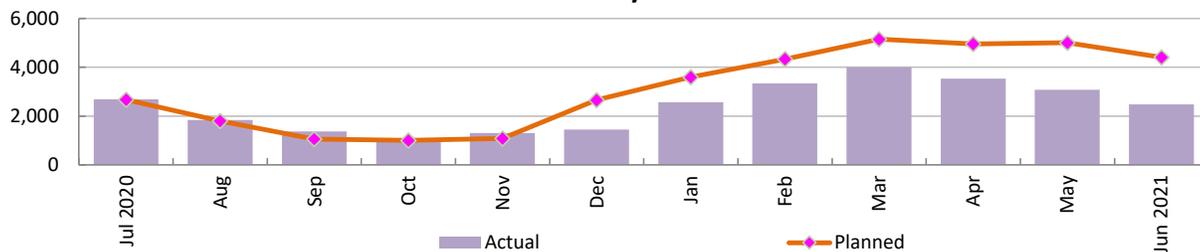
## Non-Potable Reservoir Storage

(AF)

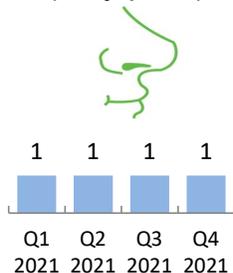
### Irvine Lake



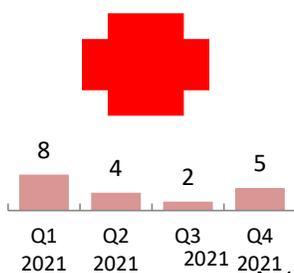
### Recycled



### Odor Complaints (FY by quarter)



### OSHA Recordables Incidents



### Regulatory Compliance Incidents

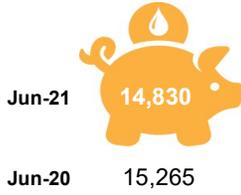
Category	Q1 2021	Q2 2021	Q3 2021	Q4 2021
AQMD	6	3	1	3
Plants	1	0	0	1
Sewer Spills	1	1	3	1

# IRVINE RANCH WATER DISTRICT

## Other Statistical Information

Data as of June 30, 2021

### State Project (AF)



### Banked Water

#### Non-State Project (AF)



#### Net YTD Water In/(Out) (AF)



\*Calendar Year including extraordinary supply received.

### Certificates of Occupancies FYTD

Apartment Condominium Single Family



	Apartment	Condominium	Single Family
FY 2020-21	432	1396	520
FY 2019-20	1504	1383	667

### Total Potable Water



	FYTD AF	Q4 GPCD
FY 2020-21	58,383	73
Three Yr Avg	56,403	66
Change	3.5%	10%

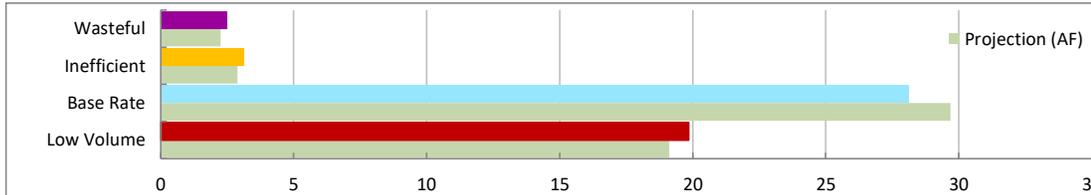
### Acre-Feet Per Acre Irrigation



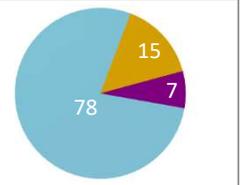
	Actual	Water Budget
FY 2020-21	2.82	3.84
Three Yr Avg	2.53	3.60

### Potable Sales by Tier FYTD

(in thousands)

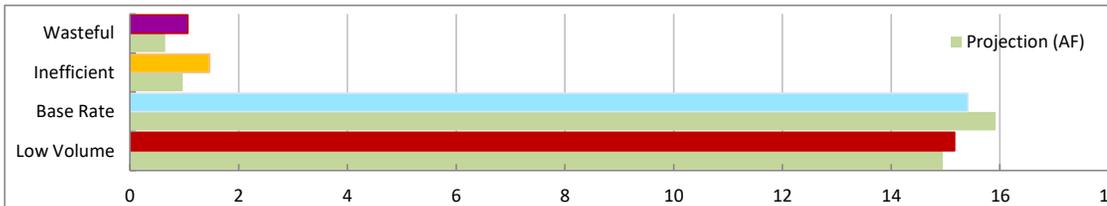


### % of Customers by Tier

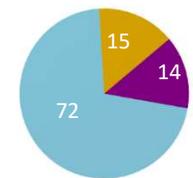


### Non-Potable Sales by Tier FYTD

(in thousands)

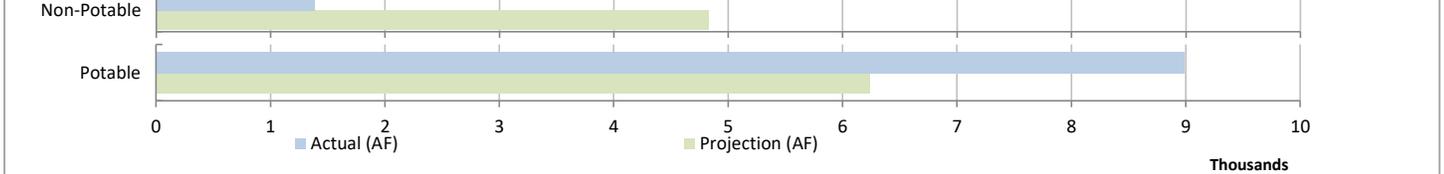


### % of Customers by Tier



### Imported Water Purchases FYTD

(in thousands)



### Website Hits

(in thousands)



### Customer Satisfaction Index\*\*



\*\* 12 month rolling average

July 26, 2021

Prepared by: C. Spangenberg / M. Cortez

Submitted by: K. Burton

Approved by: Paul A. Cook 

## CONSENT CALENDAR

### REHABILITATION OF DYER ROAD WELLFIELD WELLS 5, 14, AND 16 FINAL ACCEPTANCE

#### SUMMARY:

The Rehabilitation of Dyer Road Wellfield (DRWF) Wells 5, 14, and 16 is complete. IRWD's contractor for this project, Best Drilling and Pump, Inc., has completed the required work and all punch list items. The project has received final inspection and acceptance of construction is recommended.

#### BACKGROUND:

IRWD retained Richard C. Slade & Associates to provide design services for the rehabilitation of DRWF Wells 5, 14 and 16 and the design was completed in March 2019, with the project awarded to Best Drilling and Pump, Inc. in May 2019.

DRWF Well 5 was constructed in 1998 with copper bearing steel and was previously rehabilitated in 2015 due to extensive biological fouling. In 2018, after the well had sat dormant for a period of time, an inspection video of the well casing revealed that the louvers were completely plugged by what appeared to be crystalline calcite – a result of microbially induced corrosion. At time of shutdown, the well was unable to produce water and required thorough mechanical and chemical rehabilitation. Best Drilling and Pump successfully restored the well to its original production capacity of 2,400 gallons per minute (gpm) and the well is now operational.

DRWF Well 14 was constructed in 1986 with mild steel as the casing material and steel Johnson screens. The specific capacity and production levels have not dropped dramatically, though a downhole video of the well indicated heavy encrustation of iron-related and Slym bacteria at various depths within the screened intervals in the well. This well was one of the higher producers in the wellfield. Well 14 was successfully rehabilitated and restored to its full operational capacity of 3,200 gpm. Both the pump and motor were replaced along with a new pump pedestal and base plate.

DRWF Well 16 was constructed in 1996 with copper bearing steel as the casing material. The specific capacity of this well had decreased over time from its original specific capacity of 49 gpm per foot of drawdown to 12 gpm per foot of drawdown in 2017. The decrease in specific capacity was attributed to heavy biological fouling and encrustation buildup within the gravel pack as verified by a downhole video of the well. The original pumping rate was 2,400 gpm; the average flow rate for Well 16 dropped to 1,700 gpm over the past year. The well was successfully rehabilitated, restoring the well to its original pumping capacity. A stainless steel liner was installed due to severe corrosion of the casing as well as a new pump and discharge header.

The project was significantly delayed due to COVID-19-related issues at the pump and motor manufacturing facilities, resulting in manufacturing and test delays of over 450 days for the Well 16 pump and motor. Best Drilling and Pump successfully rehabilitated Wells 5, 14, and 16 with all three wells back in operation. Staff recommends the Board accept the construction of the Rehabilitation of DRWF Wells 5, 14, and 16.

Project Title:	Rehabilitation of DRWF Wells 5, 14, and 16
Project Nos.:	10914, 07089, and 07091
Design Engineer:	Richard C. Slade & Associates, LLC
Construction Management by:	IRWD Staff
Contractor:	Best Drilling and Pump, Inc.
Original Contract Cost:	\$2,334,370
Final Contract Cost:	\$2,373,569
Original Contract Days:	345
Final Contract Days:	801
Final Change Order Approved:	July 1, 2021

FISCAL IMPACTS:

Projects 10914, 07089, and 07091 are included in the FY 2020-21 Capital Budget. The existing budgets and Expenditure Authorizations are sufficient to complete the project.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15301 which provides exemption for minor alterations of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. A Notice of Exemption for Well 5 was filed with the Orange County Clerk Recorder on September 25, 2018, for Well 16 on July 10, 2018, and for Well 14 on April 16, 2019, respectively.

RECOMMENDATION:

THAT THE BOARD ACCEPT CONSTRUCTION OF REHABILITATION OF DYER ROAD WELLFIELD WELLS 5, 14, AND 16, 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 PROJECTS 10914, 07089, AND 07091.

EXHIBITS:

Exhibit "A" – Construction Change Order Summary

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**EXHIBIT "A"**

**Rehabilitation of DRWF Well Nos. 5, 14, and 16  
PR Nos. 10914, 07089, and 07091  
Construction Change Order Summary**

Contractor: Best Drilling and Pump, Inc.  
Design Engineer: Richard C. Slade Associates, LLC

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$2,334,370.00						Original Days:				4/23/2020
Change Order	Description	Category	Initiated by (IRWD or Paulus Engineering)	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
1	Approved by Exe. Director of Technical Services Approved on March 17, 2020 Additional costs associated with the demolition and replacement of the sole plate and pump pedestal at Well 14, and upgrade of line shaft bearings to vesconite at Well Nos. 5, 14, and 16.	A	IRWD	\$ 39,199.00	\$39,199.00	\$0.00	\$39,199.00	1.68%	\$2,373,569.00	10	0	10	10	5/3/2020
2	Approved by Exe. Director of Technical Services Approved on July 1, 2021 No cost time extension due to delays in pump and motor manufacturing, testing, delivery, and installation due to Covid virus.	A	IRWD	\$ -	\$0.00	\$39,199.00	\$39,199.00	1.68%	\$2,373,569.00	446		446	446	7/23/2021
	Total Change Orders						\$39,199.00	1.68%	\$2,373,569.00	0		0	-	7/23/2021

Category	Total Amount	% of Original Contract
A - District Convenience/Initiation - Project Related	\$ 39,199.00	1.68%
B - Differing Site Conditions	\$ -	0.00%
C - Design Oversight	\$ -	0.00%
D - Contractor Convenience/Initiation	\$ -	0.00%
<b>TOTAL (A + B + C + D)</b>	<b>\$ 39,199.00</b>	<b>1.68%</b>

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July 26, 2021  
Prepared by: T. Bonkowski / M. Cortez  
Submitted by: K. Burton  
Approved by: Paul A. Cook *P.A.C.*

CONSENT CALENDAR

TURTLE RIDGE PIPELINES CATHODIC PROTECTION  
FINAL ACCEPTANCE

SUMMARY:

The Turtle Ridge Pipelines Cathodic Protection project is complete. IRWD’s contractor Paulus Engineering, Inc. has completed the required work and all punch list items. The project has received final inspection and acceptance of construction is recommended.

BACKGROUND:

Over the past several years, corrosion-related leaks have been repaired on the 10-inch ductile iron recycled water main and the 16-inch ductile iron domestic water main in the Turtle Ridge development area. This project installed an impressed current cathodic protection system consisting of a deep well anode and rectifier to protect the recycled and domestic water pipelines in Turtle Ridge Drive, Federation Way, and Summit Park Drive.

V&A Consulting Engineers completed the design in May 2020, and Paulus Engineering, Inc. was awarded the construction contract on July 13, 2020. Paulus mobilized near the end of August 2020 and completed construction of all improvements on July 9, 2021. The project’s completion was delayed due to the need for additional work to ensure domestic and recycled pipeline continuity and the proper operation of the completed cathodic protection systems. Also, work was scheduled to minimize disruptions to the nearby schools. A summary of construction change orders is provided as Exhibit “A”.

Project Title:	Turtle Ridge Pipelines Cathodic Protection
Project Nos.:	07888 and 07889
Design Engineer:	V&A Consulting Engineers
Construction Management by:	IRWD Staff
Contractor:	Paulus Engineering, Inc.
Original Contract Cost:	\$579,777.00
Final Contract Cost:	\$666,985.90
Original Contract Days:	180
Final Contract Days:	319

FISCAL IMPACTS:

Projects 07888 and 07889 are included in the FY 2020-21 Capital Budget. The existing budgets are sufficient to fund the final payment for the project.

ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations Title 14, Chapter 3, Section 15301, which provides categorical exemption for the operation, repair, maintenance, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. A Notice of Exemption was filed with the Orange County Clerk's office on May 18, 2017.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD ACCEPT CONSTRUCTION OF THE TURTLE RIDGE PIPELINES CATHODIC PROTECTION, 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 PROJECTS 07888 AND 07889.

LIST OF EXHIBITS:

Exhibit "A" – Construction Change Order Summary

EXHIBIT "A"

Turtle Ridge Pipelines Cathodic Protection  
PR Nos. 07888 & 07889  
Construction Change Order Summary

Contractor: Paulus Engineering, Inc.  
Design Engineer: V & A Consulting Engineers

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$579,777.00						Original Days:				1/10/2021
Change Order	Description	Category	Initiated by (IRWD or Paulus Engineering)	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
1	Approved by Exe. Director of Technical Services Approved on March 18, 2021 Additional costs associated with the installation of 1-inch insulating unions of the air vac on Federation Way to resolve voltage drop issues	A	IRWD	\$ 11,687.30	\$11,687.30	\$0.00	\$11,687.30	2.02%	\$591,464.30	3	0	3	3	1/13/2021
2	Approved by Exe. Director of Technical Services Approved on June 20, 2021 Additional costs associated with excavation, inspection, bond reappear of domestic & recycled water pipelines as specified locations and continuity testing to determine voltage drop on the domestic & recycled pipelines.	A	IRWD	\$ 75,521.60	\$75,521.60	\$11,687.30	\$87,208.90	15.04%	\$666,985.90	136		136	136	5/29/2021
	Total Change Orders						\$87,208.90	15.04%	\$666,985.90	0		0	-	5/29/2021

Category	Total Amount	% of Original Contract
A - District Convenience/Initiation - Project Related	\$ 87,208.90	15.04%
B - Differing Site Conditions	\$ -	0.00%
C - Design Oversight	\$ -	0.00%
D - Contractor Convenience/Initiation	\$ -	0.00%
TOTAL (A + B + C + D)	\$ 87,208.90	15.04%

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July 26, 2021

Prepared by: L. Srader

Submitted by: T. Mitcham

Approved by: Paul A. Cook



## CONSENT CALENDAR

### ADOPTION OF CORRECTED DISTRICT SCHEDULES OF POSITIONS AND SALARY RATE RANGES EFFECTIVE JUNE 14, 2021 THROUGH JUNE 30, 2021

#### SUMMARY:

Staff discovered that a job reclassification effective on June 14, 2021 was not listed on the Board-adopted Salary Schedules in accordance with CalPERS regulations. Staff recommends the Board correct the issue by adopting a resolution approving an accurate version of the Schedules of Positions and Salary Rate Ranges (Salary Schedules) to be effective on June 14, 2021 through June 30, 2021.

#### BACKGROUND:

The Director of Public Affairs classification (salary grade U27.E) was reclassified to Director of Strategic Communications & Advocacy/Deputy General Counsel (salary grade U27.E) by the General Manager effective June 14, 2021.

On June 14, 2021, the Board of Directors adopted Resolution No. 2021-9 Schedule of Positions and Salary Rate Ranges for General Unit and Non-exempt Supervisor Unit, Managers, Exempt Supervisors and Confidential Employees effective July 1, 2021 (“July 1, 2021 Salary Schedule”). The July 1, 2021 Salary Schedule reflected the revised classification of the Director of Strategic Communications & Advocacy/Deputy General Counsel, but did not accurately reflect that this reclassification was effective June 14, 2021 rather than July 1, 2021.

CalPERS requires that each employment position and pay rate be identified in a publicly available pay schedule (CalPERS Regulations, 2 CCR 570.5). Inaccuracies in IRWD’s current Salary Schedules can result in CalPERS being unable to approve a pay rate amount for purposes of final retirement calculation and can potentially impact employees’ pension benefits. To remedy this issue, staff recommends the Board adopt a resolution with a salary schedule that is effective only from June 14, 2021 through June 30, 2021 and that simply adds the Director of Strategic Communications & Advocacy/Deputy General Counsel to the salary schedule which was otherwise in effect at that time. Adopting this recommended salary schedule will better comply with CalPERS regulations and will not impact or supersede the salary schedule which has been currently in effect at IRWD since July 1, 2021.

#### FISCAL IMPACTS:

Not applicable.

Consent Calendar: Adoption of Corrected District Schedules of Positions and Salary Rate Ranges for June 14, 2021 Through June 30, 2021

July 26, 2021

Page 2

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD APPROVE CORRECTED DISTRICT SCHEDULES OF POSITIONS AND SALARY RATE RANGES RETROACTIVELY EFFECTIVE JUNE 14, 2021 THROUGH JUNE 30, 2021, AND ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2021 –

RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
IRVINE RANCH WATER DISTRICT ADOPTING  
CORRECTED SCHEDULES OF POSITIONS AND SALARY  
RATE RANGES EFFECTIVE JUNE 14, 2021 THROUGH  
JUNE 30, 2021.

LIST OF EXHIBITS:

Exhibit “A” – Resolution of the Board of Directors of the Irvine Ranch Water District adopting corrected Schedules of Positions and Salary Rate Ranges effective June 14, 2021 through June 30, 2021.

Exhibit “B” – Salary Grade Schedule

Exhibit "A"

RESOLUTION NO. 2021-

RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
IRVINE RANCH WATER DISTRICT ADOPTING  
CORRECTED SCHEDULES OF POSITIONS AND SALARY  
RATE RANGES EFFECTIVE AS OF JUNE 14, 2021.

The Board of Directors of Irvine Ranch Water District, by adoption of Resolution No. 2020-22 on November 23, 2020, established a Schedule of Positions and Salary Rate Ranges of the Irvine Ranch Water District; and

The Board of Directors of Irvine Ranch Water District, by adoption of Resolution No. 2021-9 on June 14, 2021, revised the Schedule of Positions and Salary Rate Ranges effective July 1, 2021.

The Board of Directors of Irvine Ranch Water District finds that the above Schedule of Positions and Salary Rate Ranges are in need of certain revisions to accurately reflect job positions and pay rates as required by the California Public Employees' Retirement System, and that these revisions are corrective in nature and will not result in any changes to payroll.

Irvine Ranch Water District now desires to make such administrative corrections to the above Schedule of Positions and Salary Rate Ranges.

The Board of Directors of Irvine Ranch Water District therefore resolves as follows:

Section 1. That a corrected Schedule of Positions and Salary Rate Ranges effective June 14, 2021 through June 30, 2021, and as set forth in Schedule A to this Resolution, is hereby approved and adopted.

ADOPTED, SIGNED and APPROVED on July 26, 2021.

\_\_\_\_\_  
President, IRVINE RANCH WATER DISTRICT

\_\_\_\_\_  
Secretary, IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

By: \_\_\_\_\_  
Claire Hervey Collins, General Counsel  
Hansen Bridgett LLP

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Exhibit "B"

Schedule "A"

**IRVINE RANCH WATER DISTRICT**  
**MONTHLY SALARY GRADE SCHEDULE**

**Managers, Exempt Supervisors, Confidential & Exempt Employees**

Effective June 14, 2021 through June 30, 2021

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
<b><u>NON-EXEMPT</u></b>			
Salary Grade U1.N	\$3,055	\$3,788	\$3,977
Salary Grade U2.N	\$3,122	\$3,892	\$4,087
Salary Grade U3.N	\$3,187	\$3,999	\$4,199
Salary Grade U4.N	\$3,246	\$4,116	\$4,321
Salary Grade U5.N	\$3,320	\$4,229	\$4,441
Salary Grade U6.N	\$3,385	\$4,352	\$4,570
Salary Grade U7.N	\$3,453	\$4,473	\$4,698
Salary Grade U8.N	\$3,528	\$4,601	\$4,831
Salary Grade U9.N	\$3,595	\$4,728	\$4,967
Salary Grade U10.N	\$3,670	\$4,858	\$5,099
Salary Grade U11.N	\$3,741	\$4,982	\$5,228
Salary Grade U12.N	\$3,815	\$5,128	\$5,385
Salary Grade U13.N	\$3,886	\$5,274	\$5,541
Salary Grade U14.N	\$3,974	\$5,424	\$5,696
Salary Grade U15.N	\$4,059	\$5,568	\$5,846
Salary Grade U16.N	\$4,155	\$5,724	\$6,009
Salary Grade U17.N	\$4,243	\$5,867	\$6,160
Salary Grade U18.N	\$4,336	\$6,024	\$6,327
Salary Grade U19.N	\$4,435	\$6,176	\$6,487
Safety Assistant			
Salary Grade U20.N	\$4,553	\$6,376	\$6,696

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade U21.N	\$4,683	\$6,569	\$6,900
Salary Grade U22.N	\$4,811	\$6,776	\$7,115
Executive Secretary Human Resources Assistant			
Salary Grade U23.N	\$4,938	\$6,981	\$7,328
Salary Grade U24.N	\$5,078	\$7,198	\$7,559
Salary Grade U25.N	\$5,211	\$7,419	\$7,792
Human Resources Technician			
Salary Grade U26.N	\$5,373	\$7,641	\$8,024
Executive Assistant			
Salary Grade U27.N	\$5,527	\$7,866	\$8,258
Salary Grade U28.N	\$5,689	\$8,098	\$8,505
Salary Grade U29.N	\$5,859	\$8,334	\$8,752
Administrative Assistant Safety Specialist			
Salary Grade U30.N	\$6,036	\$8,581	\$9,011
Salary Grade U31.N	\$6,215	\$8,839	\$9,281
Human Resources Analyst			
Salary Grade U32.N	\$6,393	\$9,100	\$9,555
Salary Grade U33.N	\$6,580	\$9,365	\$9,834
Network Administrator User Support Administrator			
Salary Grade U34.N	\$6,776	\$9,624	\$10,107
Salary Grade U35.N	\$6,980	\$9,913	\$10,409

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
<b>EXEMPT</b>			
Salary Grade U1.E	\$4,913	\$6,312	\$6,627
Salary Grade U2.E	\$5,077	\$6,557	\$6,885
Salary Grade U3.E	\$5,239	\$6,801	\$7,144
Salary Grade U4.E	\$5,403	\$7,063	\$7,415
Salary Grade U5.E	\$5,568	\$7,324	\$7,691
Salary Grade U6.E	\$5,760	\$7,608	\$7,989
Salary Grade U7.E	\$5,944	\$7,890	\$8,283
Salary Grade U8.E	\$6,138	\$8,198	\$8,608
Salary Grade U9.E	\$6,325	\$8,499	\$8,922
Salary Grade U10.E	\$6,535	\$8,820	\$9,261
Asset Systems Analyst Assistant Engineer Customer Service Supervisor Development Services Supervisor Management Analyst Public Affairs Analyst Senior Public Affairs Specialist			
Salary Grade U11.E	\$6,745	\$9,146	\$9,605
Purchasing Supervisor			
Salary Grade U12.E	\$6,963	\$9,498	\$9,970
Environmental Compliance Analyst Financial Analyst Regulatory Compliance Administrator Senior Accountant Senior Water Efficiency Analyst Source Control Program Administrator Water Efficiency Supervisor			
Salary Grade U13.E	\$7,189	\$9,842	\$10,333
GIS Supervisor Legislative Analyst Right of Way Agent Senior Human Resources Analyst Treasury Analyst Water Resources Planner			

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade U14.E Accounting Supervisor Associate Engineer District Secretary QA/QC Compliance Administrator	\$7,422	\$10,221	\$10,732
Salary Grade U15.E Applications Analyst Automation Programmer Laboratory Supervisor Senior Regulatory Compliance Administrator Senior SCADA Network Administrator Senior Network Administrator	\$7,658	\$10,604	\$11,132
Salary Grade U16.E	\$7,914	\$11,004	\$11,556
Salary Grade U17.E Construction Inspection Manager Customer Service Manager Engineer Facilities/Fleet Manager Purchasing Manager Safety Manager	\$8,166	\$11,409	\$11,978
Salary Grade U18.E Collection Systems Manager Construction Services Manager Cybersecurity Analyst Electrical and Instrumentation Manager Field Services Manager Natural Resources Manager Public Affairs Manager Regulatory Compliance Manager Senior Applications Analyst Senior Applications Developer Senior Database Administrator Water Efficiency Manager Water Quality Manager	\$8,431	\$11,844	\$12,434
Salary Grade U19.E Manager of Risk & Contracts Administration Mechanical Services Manager Recycled Water Development Manager Treasury Manager Water Resources Manager	\$8,698	\$12,281	\$12,897

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade U20.E Automation Manager Operations Manager Reliability Engineer Senior Engineer User Support Manager	\$8,969	\$12,737	\$13,373
Salary Grade U21.E Controller Manager of Strategic Planning and Analysis	\$9,242	\$13,197	\$13,857
Salary Grade U22.E Applications Manager Network and Cybersecurity Manager	\$9,539	\$13,687	\$14,373
Salary Grade U23.E Principal Engineer	\$9,841	\$14,183	\$14,893
Salary Grade U24.E Engineering Manager	\$10,108	\$14,755	\$15,490
Salary Grade U25.E Government Relations Officer/Deputy General Counsel	\$10,420	\$15,312	\$16,077
Salary Grade U26.E	\$10,896	\$16,122	\$16,928
Salary Grade U27.E Director of Field Operations Director of Human Resources Director of Information Services Director of Maintenance Director of Public Affairs Director of Recycling Operations Director of Strategic Communications & Advocacy/ Deputy General Counsel Director of Water Quality & Regulatory Compliance Director of Water Resources Treasurer/Director of Risk Management	\$11,394	\$16,977	\$17,824
Salary Grade U28.E	\$11,918	\$17,870	\$18,763
Salary Grade U29.E	\$12,462	\$18,816	\$19,756
Salary Grade U30.E Executive Director of Finance Executive Director of Technical Services Executive Director of Operations Executive Director of Water Policy	\$13,038	\$19,816	\$20,805

	<b>MINIMUM</b>	<b>MAXIMUM</b>	<b>EXCEPTIONAL PERFORMANCE TOP OF RANGE</b>
Salary Grade U31.E	\$13,686	\$20,939	\$21,985
Salary Grade U32.E	\$14,372	\$22,131	\$23,238
Salary Grade U33.E	\$15,087	\$23,388	\$24,557
Salary Grade U34.E	\$15,844	\$24,715	\$27,338
General Manager			

SCHEDULE A

**IRVINE RANCH WATER DISTRICT**  
**MONTHLY SALARY GRADE SCHEDULE**  
**Non-Exempt Supervisors Unit**

Effective June 14, 2021 (unless otherwise noted) through June 30, 2021

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
<b><u>NON-EXEMPT</u></b>			
Salary Grade S26.N	\$5,373	\$7,641	\$8,024
Salary Grade S27.N	\$5,527	\$7,866	\$8,258
Salary Grade S28.N	\$5,689	\$8,098	\$8,505
Salary Grade S29.N	\$5,859	\$8,334	\$8,752
Salary Grade S30.N	\$6,036	\$8,581	\$9,011
Salary Grade S31.N Facilities Services Supervisor Fleet Supervisor	\$6,215	\$8,839	\$9,281
Salary Grade S32.N Collection Systems Supervisor Mechanical Services Supervisor	\$6,393	\$9,100	\$9,555
Salary Grade S33.N Cross Connection Supervisor Water Maintenance Supervisor	\$6,580	\$9,365	\$9,834
Salary Grade S34.N Construction Inspection Supervisor Automation Supervisor Electrical Supervisor Instrumentation Supervisor Water Monitoring Supervisor	\$6,776	\$9,624	\$10,107
Salary Grade S35.N Operations Supervisor	\$6,980	\$9,913	\$10,409

**IRVINE RANCH WATER DISTRICT**  
**MONTHLY SALARY GRADE SCHEDULE**  
**General Employees Unit**  
**Effective June 14, 2021 through June 30, 2021**

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
<b><u>NON-EXEMPT</u></b>			
Salary Grade 1.N	\$3,049	\$3,781	\$3,970
Salary Grade 2.N	\$3,115	\$3,884	\$4,078
Salary Grade 3.N	\$3,182	\$3,992	\$4,191
Salary Grade 4.N	\$3,240	\$4,107	\$4,312
Salary Grade 5.N	\$3,312	\$4,221	\$4,433
Salary Grade 6.N	\$3,378	\$4,344	\$4,561
	Office Assistant Mail Coordinator		
Salary Grade 7.N	\$3,444	\$4,464	\$4,688
Salary Grade 8.N	\$3,521	\$4,593	\$4,822
Salary Grade 9.N	\$3,590	\$4,719	\$4,954
Salary Grade 10.N	\$3,661	\$4,847	\$5,087
Salary Grade 11.N	\$3,733	\$4,973	\$5,219
	Maintenance Apprentice Material Control Clerk I Utility Worker		
Salary Grade 12.N	\$3,807	\$5,117	\$5,375
Salary Grade 13.N	\$3,878	\$5,265	\$5,526
	Customer Service Specialist I Support Specialist		
Salary Grade 14.N	\$3,966	\$5,412	\$5,683
Salary Grade 15.N	\$4,051	\$5,557	\$5,836
	Collection Systems Technician I Office Specialist		
Salary Grade 16.N	\$4,146	\$5,713	\$5,997
	Accounting Clerk Customer Service Field Technician		

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Metering Systems Technician I Water Maintenance Technician I			
Salary Grade 17.N	\$4,234	\$5,854	\$6,146
Customer Service Specialist II			
Salary Grade 18.N	\$4,326	\$6,013	\$6,312
Material Control Clerk II Senior Support Specialist Water Efficiency Field Technician			
Salary Grade 19.N	\$4,426	\$6,165	\$6,473
Development Services Specialist Purchasing Coordinator Senior Office Specialist			
Salary Grade 20.N	\$4,544	\$6,362	\$6,681
Collection Systems Technician II Engineering Technician I GIS Technician I Operator I Senior Accounting Clerk			
Salary Grade 21.N	\$4,672	\$6,555	\$6,885
Collection Systems CCTV Technician Customer Service Specialist III Senior Customer Service Field Technician			
Salary Grade 22.N	\$4,801	\$6,762	\$7,101
Facilities Services Technician Maintenance Mechanic Metering Systems Technician II Risk Assistant Senior Purchasing Coordinator Vehicle/Equipment Mechanic Water Maintenance Technician II			
Salary Grade 23.N	\$4,927	\$6,966	\$7,314
Senior Water Efficiency Field Technician			
Salary Grade 24.N	\$5,067	\$7,185	\$7,543
Buyer Public Affairs Assistant Recycled Water Specialist Water Loss Prevention Specialist Wetlands Specialist			

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade 25.N Engineering Technician II GIS Technician II Senior Collection Systems CCTV Technician Senior Collection Systems Technician	\$5,200	\$7,405	\$7,777
Salary Grade 26.N Cross Connection Specialist Metering Systems Technician III Water Efficiency Specialist Water Maintenance Technician III Water Resources Specialist	\$5,360	\$7,626	\$8,006
Salary Grade 27.N Accountant Operator II Senior Facilities Services Technician Senior Maintenance Mechanic Senior Water Loss Prevention Specialist Senior Vehicle/Equipment Maintenance Mechanic	\$5,516	\$7,849	\$8,241
Salary Grade 28.N Automation Technician Construction Inspector Electrical Technician Instrumentation Technician Landscape Contracts Administrator Scientist	\$5,678	\$8,083	\$8,488
Salary Grade 29.N Engineering Technician III GIS Technician III Lead Maintenance Mechanic Operator III Public Affairs Specialist Senior Buyer Senior Recycled Water Specialist Senior Wetlands Specialist	\$5,847	\$8,319	\$8,733
Salary Grade 30.N Graphic Design Specialist Risk Analyst Senior Electrical Technician Senior Instrumentation Technician	\$6,024	\$8,564	\$8,994

	<b>MINIMUM</b>	<b>MAXIMUM</b>	<b>EXCEPTIONAL PERFORMANCE TOP OF RANGE</b>
Salary Grade 31.N Information Services Coordinator Payroll Administrator Recycled Water Project Specialist Senior Construction Inspector Senior Water Efficiency Specialist	\$6,201	\$8,822	\$9,261
Salary Grade 32.N Asset Maintenance Coordinator Automation Specialist Environmental Compliance Specialist Process Specialist Senior Scientist Wetlands Scientist	\$6,380	\$9,082	\$9,537
Salary Grade 33.N Operations Coordinator Water Efficiency Analyst	\$6,567	\$9,347	\$9,813
Salary Grade 34.N	\$6,762	\$9,605	\$10,086
Salary Grade 35.N	\$6,965	\$9,893	\$10,388

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July 26, 2021

Prepared by: H. Cho / M. Cortez

Submitted by: K. Burton

Approved by: Paul A. Cook 

## CONSENT CALENDAR

### DISTRICT-WIDE EMERGENCY GENERATOR DIESEL FUEL STORAGE CONSULTANT SELECTION

#### SUMMARY:

The District-wide Emergency Generator Diesel Fuel Storage project will increase the capacity of diesel fuel storage for emergency generators serving 11 domestic water pump stations and sewage lift stations to allow for 72 hours of operation in emergency situations. The project will also replace the emergency generators at three domestic water pump stations with new generators and diesel fuel storage tanks sized to provide an operational supply for 72-hours. Staff recommends the Board authorize the General Manager to execute a Professional Services Agreement with Psomas in the amount of \$428,713 for engineering design services for the District-wide Emergency Generator Diesel Fuel Storage project.

#### BACKGROUND:

IRWD operates many of its important water and sewer facilities with onsite emergency generators to provide electricity during power outages. Currently, these generators generally have enough fuel to power each facility for approximately 24 hours. This project will increase the amount of diesel fuel stored at 11 domestic water pump stations and sewage lift stations to provide 72 hours of operation. The 11 domestic water pump stations and sewage lift stations are:

- Foothill Zone 4-6 Pump Station
- Coastal Zone 6-7 Pump Station
- Portola Zone 8-9 Pump Station
- Portola Zone 6-8 Pump Station
- Lake Forest Zone 5-6 West (2-3 West) Pump Station
- Lake Forest Zone 5-6 East (2-3 East) Pump Station
- Michelson Lift Station
- University Lift Station
- Newport Coast Lift Station
- Coyote Canyon Lift Station
- Cañada Lift Station

This project will also replace the existing emergency generators with new generators and fuel tanks sized to provide the 72 hours of operational storage at the Santiago Zone 5-6 Pump Station, Cabinland Pump Station, and Coastal Ridge Lift Station. A replacement generator is needed at Santiago Zone 5-6 Pump Station since the generator at this pump station operates the most frequently of all the sites due to the occurrences of red-flag winds, fires and power outages in this area. In addition, the generator is the least fuel-efficient generator located at pump stations, is nearly 30 years old, and has reached the end of its service life. The generators at Cabinland Pump Station and Coastal Ridge Lift Station require replacement as the generators need frequent

maintenance and do not start when remotely called to operate requiring staff to manually start the generator when needed. A location map of these 14 project sites is provided as Exhibit “A”.

Separate capital projects are currently in design or will shortly begin design to upgrade the fuel storage at other facilities in the District not included in this project, e.g., MWRP Operations Center, Baker Water Treatment Plant, and Sand Canyon Headquarters.

Consultant Selection:

Staff issued a request for proposal for the design to four consultants: Arcadis, Dudek, GHD and Psomas. All four firms were responsive and submitted proposals. Staff evaluated the proposals based on each consultant’s project approach, project team and relevant experience. Staff recommends the selection of Psomas.

While all firms provided proposals that reflected a good understanding of the scope of work, Dudek’s and Psomas’ proposals reflected a more efficient work effort and commensurate fees required to complete the design. Staff recommends the selection of Psomas as it completed the Santiago Canyon Domestic Water Pump Station Emergency Generators engineering design several years ago on time and within budget. Additionally, Psomas’ project manager is Nancy Baker, who is well qualified and has managed engineering designs on previous IRWD projects including the San Joaquin Marsh Improvements and the Rattlesnake and Irvine Lake Pipeline Strainer Replacement. The consultant evaluation matrix and Psomas’ proposal are provided as Exhibits “B” and “C”, respectively.

FISCAL IMPACTS:

Projects 11536 and 11537 are included in the FY 2021-22 Capital Budget. The current budgets are sufficient for the engineering design work.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA). In conformance with the California Code of Regulations Title 14, Chapter 3, Section 15004, the appropriate environmental document will be prepared when meaningful information becomes available.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on July 20, 2021.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH PSOMAS IN THE AMOUNT OF \$428,713 FOR ENGINEERING DESIGN SERVICES FOR THE DISTRICT-WIDE EMERGENCY GENERATOR DIESEL FUEL STORAGE, PROJECTS 11536 AND 11537.

LIST OF EXHIBITS:

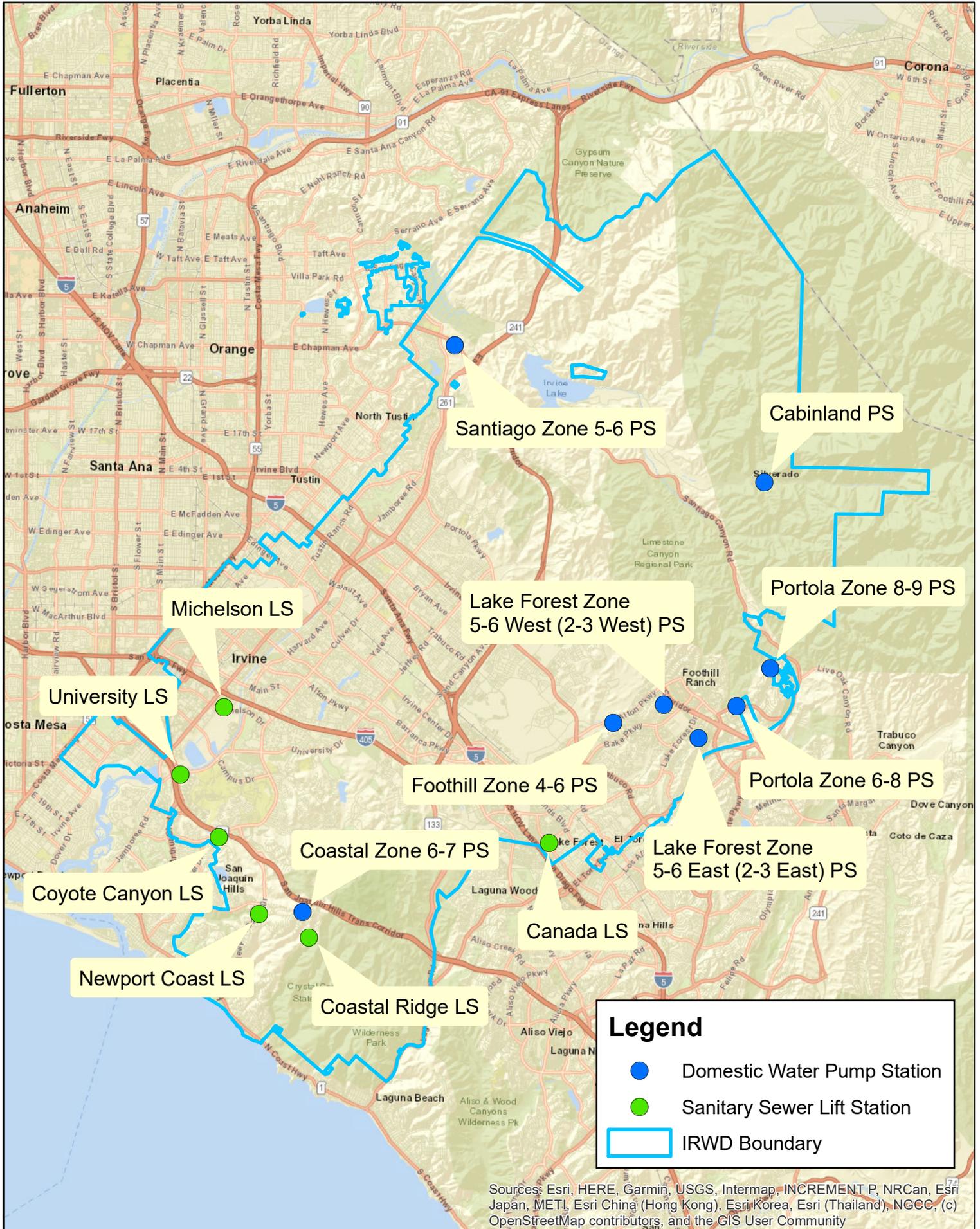
Exhibit "A" – Location Map

Exhibit "B" – Consultant Selection Evaluation Matrix

Exhibit "C" – Psomas Proposal

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# EXHIBIT "A" Location Map of 14 Pump Stations and Lift Stations



Source: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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# EXHIBIT "B"

District Wide Emergency Generators Diesel Fuel Storage - Design Engineering Services

	Weights	Arcadis	Dudek	GHD	Psomas
<b>TECHNICAL APPROACH</b>	50%				
Project Approach	50%	3	2	4	1
Scope of Work & Sheet Count	50%	4	2	3	1
<b>Weighted Score (Technical Approach)</b>		3.50	2.00	3.50	1.00
<b>EXPERIENCE</b>	50%				
Team	20%	3	2	4	1
Project Manager	40%	3	2	4	1
Mechanical Engineer	20%	1	2	4	3
Electrical Engineer	20%	3	2	4	1
<b>Weighted Score (Experience)</b>		2.60	2.00	4.00	1.40
Principal-in-Charge/Technical Advisor		Ufuk Erdal	Bob Ohlund	Greg Watanabe	Joe Boyle
Project Manager		Dan Ryan	Mike Metts	Ulysses Fandino	Nancy Baker
Project Engineer		Alex Duchon, Ludwig	Brandon Lacap, Kasey	Francisco Gutierrez	Krista Kausen
QA/QC		Perez	Harvey	Dan Reiter	Joe Boyle
		Harmik Aghanian	Bob Ohlund		
Electrical		Justin Lee, Jeff Sokol	Alan Carrie	Mehdi Mardi	Casey Cushman
I&C		Raluca Constantinescu, Youssef Al-shanti	Alan Carrie	Mehdi Mardi	Casey Cushman
Mechanical		Dan Ryan	-	Terry Wong	-
		Kevin Clinch, Stephanie			
Structural		Holst	-	Jessica Napier	Hernan Montoya
		Carolina Valliacis, Shivani			
Permitting		Shrotriya	Jennifer Reed	-	-
Civil		-	-	Pedro Alvarez	-
Constructability		-	-	Jim Winter	-
Survey					Christopher Riehle
<b>COMBINED WEIGHTED SCORE</b>		3.05	2.00	3.75	1.20
Sheet Count					
General		2	3	4	3
Civil		44	16	14	34
Mechanical		15	3	14	
Electrical		17	16	17	18
Instrumentation		14	16		
<b>Total</b>		92	54	49	55
		Man-hours	Man-hours	Man-hours	Man-hours
Task 1 Project Management		322	112	183	164
Task 2 Preliminary Design		858	406	439	584
Task 3 Final Design		2,663	1,272	961	1,860
<b>TOTAL HOURS</b>		3,843	1,790	1,583	2,608
<b>FEE</b>					
Task 1 Project Management		\$79,354	\$27,320	\$44,725	\$33,170
Task 2 PDR		\$169,050	\$83,290	\$92,974	\$100,120
Task Final Design		\$475,256	\$248,560	\$197,232	\$295,423
<b>Total</b>		<b>\$723,660</b>	<b>\$359,170</b>	<b>\$334,931</b>	<b>\$428,713</b>
Average \$/manhrs		188	201	212	164
<b>FORCED RANKINGS:</b>		3	2	4	1
1 - First					
2 - Second					
3 - Third					
4 - Fourth					
Professional Liability Insurance		Yes	Yes	Yes	Yes
Comm. General Liability Insurance		Yes	Yes	Yes	Yes

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# ENGINEERING DESIGN SERVICES FOR THE DISTRICT-WIDE GENERATOR FUEL STORAGE PROJECT

Irvine Ranch Water District



Proposal | 06.18.21

Submitted To:  
Harry Cho, Project Manager  
Engineering Department, 3512 Michelson Drive, Irvine, CA, 92618



June 18, 2021

Harry Cho, PE, Project Manager  
Irvine Ranch Water District  
Engineering Department  
3512 Michelson Drive  
Irvine, CA 92618

**Subject: Proposal for Engineering Design Services for the District-Wide Generator Fuel Storage Project**

Dear Mr. Cho:

We sincerely appreciate the opportunity to submit a proposal to the Irvine Ranch Water District (IRWD) to provide engineering design services for the District-Wide Generator Fuel Storage Project. The project includes preliminary and final design, preparation of construction documents, and bidding assistance to increase diesel fuel storage for emergency generators at 14 District facilities.

Psomas has thoroughly reviewed your RFP and related reports, drawings, and photos, and offers a highly qualified team to provide engineering design services for this important project. Our proposed Project Manager, Nancy Baker, PE, ENV SP, will work closely with team members to ensure we provide precise, thorough, and detailed construction documents. For over 30 years, Nancy has managed, designed, and delivered numerous pump station/generator improvement projects throughout California. Krista Kausen, PE, ENV, SP, our Project Engineer, also has significant recent experience in the design of pump station and generator projects. Joe Boyle, PE, will provide quality assurance and control and will work closely with Nancy and the team to ensure we provide clear, concise, and accurate project information.

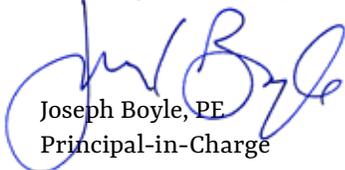
You have our commitment that, if Psomas is selected for this assignment, it will be executed by those individuals listed herein and completed on schedule and within budget. Please note that our proposal is valid for a period of 90 days.

Thank you for the opportunity to propose on this exciting project. We look forward to working with IRWD staff and the opportunity to provide engineering services once again to the Irvine Ranch Water District.

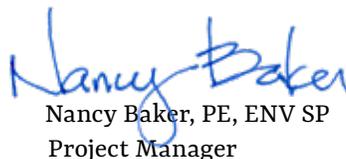
If you have any questions or require additional information, please do not hesitate to contact Joe at (714) 481-8060 or Nancy at (714) 481- 8059.

Respectfully submitted,

PSOMAS

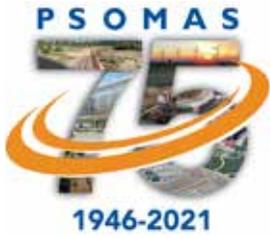


Joseph Boyle, PE  
Principal-in-Charge



Nancy Baker, PE, ENV SP  
Project Manager

5 Hutton Centre Drive  
Suite 300  
Santa Ana, CA 92707  
Tel 714.751.7373  
[www.Psomas.com](http://www.Psomas.com)



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Fee Proposal (*provided under separate cover*)

# SCOPE OF SERVICES



## Project Understanding

The Irvine Ranch Water District (IRWD) operates many of its facilities with emergency generators located onsite to provide electric power in the event of a power outage. These sites include water pump stations, sewage lift stations, and water treatment plants.

IRWD is increasing its fuel storage capacity requirement for the emergency generators to provide power for three days (72 hours) of operation at each of the facilities. Currently, the generators have existing diesel fuel storage of varying amounts, and IRWD Operations will top off the tanks when they are down to 75% full. Additionally, based on previous power outages at pump stations and sewage lift stations, the loading on those generators was 50% during operations without SCE power.

IRWD Planning compiled a list of the existing emergency generators, manufacturer and model information, fuel tank size, generator fuel use rates based on 100% and 50% loads, and the fuel storage required to provide 72 hours of operation with 100% and 50% loads. Based on the previous power outages at pump stations and sewer lift stations, fuel storage based on 50% loading was used to determine which facilities require additional fuel storage for 72 hours of operation.

The following table summarizes our understanding of the scope of the improvements at each facility as presented in the Fuel Solutions, Inc. Preliminary Design Memorandum (PDR Memo) and RFP.

Table 1 – Existing Facility Information and Proposed Improvements		
Site	Generator Existing Size	Proposed Improvements
Foothill Zone 4-6 PS	900 kW	Install new 3,000 gallon fuel tank and associated improvements.
Coastal Zone 6-7 PS	150 kW	Install new 300 gallon fuel tank and associated improvements.
Portola Zone 8-9 PS	200 kW	Install new 600 gallon fuel tank and associated improvements.
Portola Zone 6-8 PS	750 kW	Install new 900 gallon fuel tank and associated improvements.
Lake Forest Zone 5-6 West (2-3 West) PS	300 kW	Install new 1,000 gallon fuel tank and associated improvements.
Lake Forest Zone 5-6 East (2-3 East) PS	300 kW	Install new 300 gallon fuel tank and associated improvements.

Table 1 –Existing Facility Information and Proposed Improvements		
Site	Generator Existing Size	Proposed Improvements
Santiago Zone 5-6 PS	350 kW	Replace 350 kW generator with a new 350 kW generator and diesel fuel for 72 hours of facility operation at 50% loading.
Cabinland PS	29.8 kW	Replace 30 kW generator with a new 30 kW generator and diesel fuel for 72 hours of facility operation at 50% loading.
Michelson LS	125 kW	Install new 500 gallon fuel tank and associated improvements.
University LS	150 kW	Install new 300 gallon fuel tank and associated improvements.
Newport Coast LS	150 kW	Install new 500 gallon fuel tank and associated improvements.
Coyote Canyon LS	125 kW	Install new 300 gallon fuel tank and associated improvements.
Canada LS	150 kW	Install new 500 gallon fuel tank and associated improvements.
Coastal Ridge LS	160 kW	Replace 160 kW generator with a new 160 kW generator and diesel fuel for 72 hours of facility operation at 50% loading.

## Project Approach

A successful project begins with a comprehensive work plan and proven strategy. Psomas’ approach to this project is based on:

- ▶ Thorough understanding of the key design objectives of the project
- ▶ Clear communication with the District Engineering and Operations personnel
- ▶ Design and construction considerations
- ▶ Preparation of thorough and accurate construction documents incorporating best engineering practices and methods
- ▶ Preview of submittal meetings to present the submittal contents and “workshop” the proposed design solutions

## Key Design Objectives

The following summarizes our understanding of the key project objectives based on review of the RFP and our considerable experience with similar projects.

- ▶ Upgrade and increase diesel fuel storage capacity at 14 pumping facilities.
- ▶ Upgrade the diesel stored at each generator by replacing the existing fuel tank with a larger tank, installing an additional fuel tank for the required amount, or other means, to provide the additional fuel storage.
- ▶ Replace existing generators at three (3) pumping facilities.

- ▶ Demolish and remove existing fuel tank, generator and concrete pad where required.
- ▶ Provide civil, structural, and electrical improvements required for installation of new equipment.
- ▶ Provide fuel tanks with low level switch, an overfill alarm, leak sensor and alarm, manual/clock gauge.
- ▶ Install a transfer pump if a second fuel tank is installed.
- ▶ Provide instrumentation improvements as required for installation of new equipment and for integration into existing IRWD SCADA facilities.

## Communications

Clear and concise communications between the Psomas Team and IRWD's engineering and operations team is an important element of the design for the project. Psomas will work closely with IRWD to keep you informed on the progress of the project and any issues affecting the design. At the final preliminary design submittal workshop, Psomas will present the basis of design used for the selection and location of the new equipment.

## Design and Construction Considerations

There are numerous parameters that must be considered when locating the proposed equipment on an existing site. Psomas will evaluate the existing sites and use the following criteria to determine the optimum location of the new equipment:

- ▶ Comply with local code requirements, restrictions, and regulations.
- ▶ Comply with NFPA 820 requirements at the lift station sites.
- ▶ Minimize effort required to bring new equipment onsite.
- ▶ Provide space for operation and maintenance.
- ▶ Minimize required site improvements including electrical and civil.
- ▶ Locate new fuel tanks close to existing generators.
- ▶ Locate new generators so operation of existing generators can be maintained until new generator is commissioned.
- ▶ Accurate Base Maps - Psomas has reviewed the as-builts for each site provided in the RFP. Based on this review we have determined the need for survey at three (3) of the sites.

Table 2 summarizes our findings based on the above criteria, review of the PDR Memo, and RFP. Table 2 also indicates the sites recommended to be surveyed based on our assessment of the record drawings included as part of the RFP.

**Table 2 – Summary of Design and Construction Considerations**

Site	Proposed Improvements	Survey Recommended	Construction Considerations
Foothill Zone 4-6 PS	Install new 3,000 gallon fuel tank and associated improvements.	Yes	There appears to be adequate space for the new tank adjacent to the pump station building and south of the existing generator.
Coastal Zone 6-7 PS	Install new 300 gallon fuel tank and associated improvements.	No	Proposed location of new tank is located in the below grade pump station. Installation of the new tank will be challenging and require further evaluation during the preliminary design.
Portola Zone 8-9 PS	Install new 600 gallon fuel tank and associated improvements.	No	There appears to be adequate space for the new tank adjacent to the existing generator.
Portola Zone 6-8 PS	Install new 900 gallon fuel tank and associated improvements.	No	There appears to be adequate space for the new tank adjacent to the existing generator.
Lake Forest Zone 5-6 West (2-3 West) PS	Install new 1,000 gallon fuel tank and associated improvements.	Yes	There appears to be adequate space for the new tank adjacent to the pump station building.
Lake Forest Zone 5-6 East (2-3 East) PS	Install new 300 gallon fuel tank and associated improvements.	Yes	There appears to be adequate space for the new tank adjacent to the pump station building.
Santiago Zone 5-6 PS	Replace 350 kW generator with a new 350 kW generator and diesel fuel for 72 hours of facility operation at 50% loading.	No	There appears to be adequate space for the new generator in the existing generator room.
Cabinland PS	Replace 30 kW generator with a new 30 kW generator and diesel fuel for 72 hours of facility operation at 50% loading.	No	There appears to be adequate space for the new generator adjacent to the existing pump station building and generator.
Michelson LS	Install new 500 gallon fuel tank and associated improvements.	No	There appears to be adequate space for the new tank adjacent to the MCC and generator building.
University LS	Install new 300 gallon fuel tank and associated improvements.	No	There appears to be adequate space for the new tank adjacent to the existing generator.
Newport Coast LS	Install new 500 gallon fuel tank and associated improvements.	No	There appears to be adequate space for the new tank adjacent to the existing generator.
Coyote Canyon LS	Install new 300 gallon fuel tank and associated improvements.	No	There appears to be adequate space for the new tank adjacent to the existing generator.
Canada LS	Install new 500 gallon fuel tank and associated improvements.	No	There appears to be adequate space for the new tank adjacent to the existing generator.
Coastal Ridge LS	Replace 160 kW generator with a new 160 kW generator and diesel fuel for 72 hours of facility operation at 50% loading.	No	There appears to be adequate space for the new generator within the existing site. Efforts will be made to locate the new generator to allow the existing generator to remain in operation during construction.

## Permitting

Timely procurement of the South Coast Air Quality Management District (SCAQMD) permit is a priority when installing a new generator. Psomas will specify the replacement emergency generators to be pre-certified by SCAQMD which will streamline the SCAQMD permitting process. When a SCAQMD pre-certified generator is selected, the SCAQMD permit is applied for and pulled by the Contractor during construction.

Psomas will comply with OCFA permitting requirements for installation of the diesel storage tanks and will assist in procuring permits as required.

## Preview of Submittal Meetings

Preview submittal meetings are scheduled when the documents and plans are ready for review. At the meetings, the submittal contents are presented to provide explanations or clarifications for specific areas where IRWD's input is required before moving to the next phase of the project. We approach this meeting as a workshop to exchange thoughts and ideas to help achieve the ultimate design. Review meetings are recommended after your review to discuss your comments.

## QA/QC Procedures

At Psomas, our staff undergo continuous quality control training, have clearly written quality performance standards, and do not release deliverables until they are checked and corrected. This approach to quality control is applied at all staff levels and on all projects. Our project staff visits each project site and takes measurements and photographs so that our design will represent actual site conditions. We do not depend on as-builts alone to reflect field conditions. We will use our quality assurance program to conduct design and constructability reviews to provide IRWD with a quality project. This approach has led to minimal change orders on our projects. For items of major importance that may affect the direction of the project, or for major decisions involving the final appearance and presentation of the work, we often call for meetings with key project staff. Agreement is reached early on, thus minimizing the impact of such changes on schedule, budget and, most importantly, the quality of the final product. In addition to our routine progress checks and work quality, we conduct a formal quality control review prior to each submittal.



## Scope of Work

Psomas' proposed Scope of Work includes the following tasks.

### Task 1 Project Management

Psomas will conduct project management activities to ensure adherence to scope, schedule, and budget; promote efficient communication between Psomas, IRWD, and others, as required; and implement an effective QA/QC program.

- A. Preparation of Project Status Reports:** Prepare weekly and monthly status reports. Each weekly status report will be submitted on Monday and consist of a brief e-mail summarizing the activities completed the previous week, the activities planned for the upcoming week, and critical decisions that need to be made by team members. Each monthly status report will be submitted along

with the billing invoice for that month and provide more detail, summarizing the work completed and reviewing work status relative to budget and schedule. The project schedule will also be updated on a monthly basis for inclusion in the monthly status report.

- B. Meetings:** Organize, attend, and conduct meetings as required. Prepare and submit meeting agenda for IRWD review and concurrence at least five (5) days prior to the meeting. Prepare draft and final minutes for all meetings and workshops and submit them to IRWD within one (1) week of the meeting.

We have budgeted for the following meetings:

Meeting	Description
Kickoff Meeting	One (1) two-hour meeting
Site Visits to all 14 Sites	Two (2) eight-hour days (16 hours total)
Draft Technical Memorandum Submittal Meeting – Basis of Design	One (1) two-hour meeting
Final Technical Memorandum Submittal Meeting – Basis of Design	One (1) two-hour meeting
Present the 75% design and record IRWD's comments	One (1) two-hour meeting
Present the 100% design, discuss IRWD's comments, and discuss how the comments were addressed	One (1) two-hour meeting
Final design plan signing	One (1) one-hour meeting
Notes: The Civil, Mechanical, Electrical, and other key staff will plan to visit each site at least once during the design.	

- C. Quality Assurance/Quality Control:** Psomas will develop and implement proven QA/QC measures throughout the project to ensure ongoing and consistent quality control throughout all project phases.

## Task 2 Preliminary Design Memorandum

The preliminary design phase includes preparation of a Preliminary Design Memorandum (PDM) that will be used as the basis for final design. IRWD Planning retained Fuel Solutions, Inc., to complete a PDR Memo describing fuel storage upgrades for many of the sites listed in this project scope. Although the list of sites in the PDR Memo does not match this project scope, it does document the equipment that could be used for fuel storage upgrades and was, therefore, provided, as background for Task 2. Psomas will submit one searchable PDF file for the draft and final PDM

- A. Utility Research:** Perform utility research to locate utilities or other physical features including all IRWD utilities and any other utilities owned by other agencies at each site. Utility research to include completing a desktop evaluation of available record drawings.
- B. Survey:** Psomas will review the existing record drawings and determine if any survey work is required to prepare the site layout and perform any surveys as needed to prepare the design drawings. Based on our initial review, we have determined three (3) sites may require survey. For budgeting purposes, we are proposing survey for four (4) project sites, if necessary.

- C. Geotechnical:** IRWD will provide any geotechnical reports for the sites as available. We will review the documents to determine the soil conditions for use in the design. If soils information is not available for a site, we will make conservative assumptions about the soil conditions for the design. We have, therefore, not included any geotechnical work in our scope of services.
- D. Site Layout:** Prepare a site layout for each generator including location of the generator and existing fuel tanks, existing buildings, structures, equipment, underground pipes, and conduits. The layout will also include the location of the new or replacement fuel tank or replacement generator.
- E. Electrical:** Review the electric power available at the site and determine if there is sufficient power at each site to power any new equipment or if any electric power upgrades are required. Our electrical engineer will design power feed to any new equipment and any new conduits and wires/cables required to connect the new equipment to the MCC in the event the existing generator is modified or replaced.
- F. Instrumentation:** Review the existing PLC and instrumentation conduits and determine what modifications and new construction will be required for the new equipment, alarms, and signals. Our electrical engineer will design the instrumentation upgrades as part of the project, determine if the existing PLC needs to be upgraded or replaced, and provide a design for upgrade or replacement as required and design any new conduit runs. We will prepare an operational scheme including P&IDs, single line diagrams, control equipment list, control loop descriptions, I/O and method of integrating the proposed permanent facilities into IRWD's existing SCADA system. Prior to this process, our electrical engineer will meet with IRWD staff to incorporate IRWD's standard operations, programming, and tagging requirements into the design.
- G. Permitting:** We will identify all permits and their controlling agencies required during the construction phase, including but not limited to the Orange County Fire Authority (OCFA) and South Coast Air Quality Management District (SCAQMD). We will prepare applications and secure permits with appropriate agencies. IRWD will reimburse Psomas for actual permit fees without surcharge.
- H. Construction Schedule:** We will prepare a construction schedule for the project for the draft and final PDM.
- I. Engineer's Estimate:** Prepare an engineer's estimate for the project for the draft and final PDM.

All work is anticipated to occur on IRWD property or easement areas. No new easements will be required for this project. IRWD will also file the CEQA document for the project, and no work form the consultant will be required for this task.

### Task 3 Final Design

The final design will result in preparation of the Contract Documents. In the final design phase, the following items will be addressed as discussed below:

- A. Project Manual:** We will prepare a Project Manual in standard IRWD format for the Contract Documents. IRWD's front end documents will be utilized, and we will assess IRWD's documents to determine any needed supplemental special provisions that should be added to comply with IRWD's general provisions and front-end requirements. The Project Manual will describe the allowable shutdown durations and sequencing associated with construction activities. The

Project Manual will also include the IRWD General Technical Specifications, modifications thereto, and any project specific technical specifications.

**B. Construction Plans:** We will prepare detailed construction drawings in the latest version of AutoCAD and using NCS V4.0 layering standards, on 24-inch x 36-inch sheets, utilizing IRWD’s standard border template. Sheet index/location map/legend, general notes, construction notes, and details will be included. Construction notes will be used on all construction drawings.

The following sheet list is anticipated for the final design.

<b>IRWD District-Wide Generator Fuel Storage Improvement Project Anticipated Sheet Index</b>		
<b>Sheet No.</b>	<b>Dwg No.</b>	<b>Title Sheet</b>
1	G-1	Title Sheet
2	G-2	Location Map, Vicinity Map, Drawing Index, Symbols and Legends, and Abbreviations
3	G-3	General and Construction Notes
4	C-1	Foothill Zone 4-6 PS Site Plan
5	C-2	Foothill Zone 4-6 PS Civil and Mechanical Details
6	C-3	Coastal Zone 6-7 PS Pump Room Floor Plan
7	C-4	Coastal Zone 6-7 PS Mechanical Details
8	C-5	Portola Zone 8-9 PS Site Plan
9	C-6	Portola Zone 8-9 PS Civil and Mechanical Details
10	C-7	Portola Zone 6-8 PS Site Plan
11	C-8	Portola Zone 6-8 PS Civil and Mechanical Details
12	C-9	Lake Forest Zone 5-6 West (2-3 West) PS Site Plan
13	C-10	Lake Forest Zone 5-6 West (2-3 West) PS Civil and Mechanical Details
14	C-11	Lake Forest Zone 5-6 East (2-3 East) PS Site Plan
15	C-12	Lake Forest Zone 5-6 East (2-3 East) PS Civil and Mechanical Details
16	C-13	Santiago Zone 5-6 PS Generator Room Floor Plan and Section
17	C-14	Santiago Zone 5-6 PS Civil and Mechanical Details
18	C-15	Cabinland PS Site Plan
19	C-16	Cabinland PS Civil and Mechanical Details
20	C-17	Michelson Lift Station Site Plan
21	C-18	Michelson Lift Station Civil and Mechanical Details
22	C-19	University Lift Station Site Plan
23	C-20	University Lift Station Civil and Mechanical Details
24	C-21	Newport Coast Lift Station Site Plan
25	C-22	Newport Coast Lift Station Civil and Mechanical Details
26	C-23	Coyote Canyon Lift Station Site Plan
27	C-24	Coyote Canyon Lift Station Civil and Mechanical Details
28	C-25	Canada Lift Station Site Plan
29	C-26	Canada Lift Station Civil and Mechanical Details
30	C-27	Coastal Ridge Lift Station Site Plan
31	C-28	Coastal Ridge Lift Station Civil and Mechanical Details
32	S-1	Structural General Notes
33	S-2	300 Ga., 500 Gal., 600 Gal., and 900 Gal. Fuel Tank Concrete Pad Plan and Details
34	S-3	1,000 Ga., and 3,000 Gal. Fuel Tank Concrete Pad Plan and Details
35	S-4	Santiago Zone 5-6 PS Generator Structural Plan and Section
36	S-5	Cabinland PS and Coastal Ridge PS Generator Concrete Pad Plans and Sections
37	S-6	Structural Details
38	E-1	Electrical and Instrumentation Legend and Symbols

IRWD District-Wide Generator Fuel Storage Improvement Project Anticipated Sheet Index		
Sheet No.	Dwg No.	Title Sheet
39	E-2	Foothill Zone 4-6 Pump Station Electrical and Instrumentation Details
40	E-3	Coastal Zone 6-7 Pump Station Electrical and Instrumentation Details
41	E-4	Portola Zone 8-9 Pump Station Electrical and Instrumentation Details
42	E-5	Portola Zone 6-8 Pump Station Electrical and Instrumentation Details
43	E-6	Lake Forest Zone 5-6 West (2-3 West) Pump Station Electrical and Instrumentation Details
44	E-7	Lake Forest Zone 5-6 East (2-3 East) Pump Station Electrical and Instrumentation Details
45	E-8	Santiago Zone 5-6 Pump Station Electrical Plan
46	E-9	Santiago Zone 5-6 Pump Station Electrical and Instrumentation Details
47	E-10	Cabinland PS Electrical Plan
48	E-11	Cabinland PS Electrical and Instrumentation Details
49	E-12	Michelson Lift Station Electrical and Instrumentation Details
50	E-13	University Lift Station Electrical and Instrumentation Details
51	E-14	Newport Coast Lift Station Electrical and Instrumentation Details
52	E-15	Coyote Canyon Lift Station Electrical Plan
53	E-16	Canada Lift Station Electrical and Instrumentation Details
54	E-17	Coastal Ridge Lift Station Electrical Plan
55	E-18	Coastal Ridge Lift Station Electrical and Instrumentation Details

**C. Project Schedule:** Psomas will maintain and consistently update the project schedule, which will include detailed schedules for both design and construction activities. The schedule will be updated and submitted with each of the design deliverables described below. The schedule will include all critical factors impacting the project schedule, including implementation, permitting, and coordination activities to ensure the project is completed in accordance with the proposed schedule. The schedule will be prepared in Microsoft Project. A preliminary schedule outlining the preliminary and final design phase activities have been included in Section D of this proposal.

**D. Liquidated Damages Calculations:** We will assist in calculating liquidated damages value for each construction project should the contract time be exceeded. IRWD's standard liquidated damage calculation form will be provided.

**E. Opinion of Probable Construction Cost:** We will prepare a detailed and itemized opinion of probable construction cost for the proposed upgrades, which will be updated and submitted with each of the design deliverables described below.

**F. Design Deliverables.**

1. **75% Design:** Psomas will provide a single searchable PDF file of the 75 percent plan set and Project Manual. The project manual will include all sections including any project specific specifications sections or modifications to the IRWD General Technical Specifications Sections and relevant technical specifications.
2. **100% Draft:** Psomas will provide a searchable PDF file of the plan set. The plan set will include all revisions per IRWD comments. We will provide a

single searchable PDF file of the 100 percent Project Manual; all sections shall be included.

3. **Final Design Deliverable:** Psomas will provide one (1) full size, final set of plans in a single PDF with the Engineer's electronic stamp and signature, including IRWD's signatures on the design sheets. We will provide a single searchable PDF file of the Project Manual including the Engineer's electronic stamp and signature on the signature page. This submittal will be backchecked for inclusion of all previous comments prior to adding the Executive Director's electronic signature on the cover sheets of the plans and Project Manual. Once the submittal is reviewed and signed by IRWD, we will provide AutoCAD files for the entire plan set and provide Microsoft Word files used in the preparation of the Project Manual.

**G. Addenda Preparation and Pre-Bid Meeting:** During the bidding period, we will assist with providing information and clarification of bid documents to prospective bidders. This will include preparation of up to three (3) addenda including revisions to the design plans and specifications and assistance with addressing bidder questions. At a minimum, addenda preparation activities will include:

1. **Plan Revisions:** We have budgeted 16 hours of appropriate staff time for plan revisions to the construction drawings.
2. **Specification Revisions:** We have budgeted 16 hours of appropriate staff time for revisions or additions to the project specifications.
3. **Bidder Questions:** We have budgeted 16 hours of appropriate staff time to address and respond to bidder questions.
4. **Pre-Bid Meeting:** During the bidding period, we will attend a two-hour pre-bid meeting. We have also budgeted for a four (4)-hour site visit with potential bidding contractors, as needed.

## Project Team

### Nancy Baker, PE, ENV SP | Psomas | Project Manager

Nancy Baker will oversee the project design, manage the day-to-day activities, team assignments, and subconsultants, and communicate regularly with IRWD throughout the project. She will manage and bring the same detailed approach for execution of this project. Nancy has over 32 years of experience in planning, design, and construction of water and wastewater facilities, including transmission and distribution pipelines, pump stations, reservoirs, gravity sewers, force mains, and lift stations. Ms. Baker has been responsible for the successful design of several IRWD projects, including San Joaquin Marsh Improvements, Michelson Lift Station Generator Replacement, and Rattlesnake and Irvine Lake Pipeline Strainer Replacement. She has been responsible for the management of water facility design projects with annual budgets of over \$20 million.

### Joseph Boyle, PE | Psomas Principal-in-Charge and QA/QC Manager

Joe Boyle is Principal-in-Charge and will serve as QA/QC Manager for this project. He will work closely with Nancy and assist in providing constructability and quality assurance reviews for all project deliverables. His qualifications include 37 years of experience in planning and design of wastewater facilities and he has direct knowledge of IRWD's facilities, design guidelines and ordinances. Mr. Boyle has been responsible for the design of numerous IRWD projects, including the Santiago Canyon Booster Pump Station Upgrades project to add emergency generators at six (6) pump station locations.

### Krista Kausen, PE, ENV SP | Psomas | Project Engineer

Krista Kausen has 10 years of engineering experience in the water and wastewater industry involving design and construction of pump stations, wells, pipelines, and treatment plants. Her background includes environmental analysis, hydrology, hydraulics, water quality and treatment, and construction support services. She also has on-site field and inspection experience for various projects in Orange and Los Angeles counties. Krista will provide support during design and bidding.

### Chris Riehle, PLS | Psomas | Survey

Chris Riehle has 19 years of experience in a wide array of survey and mapping disciplines, including topographic mapping, boundary analysis, ALTA/NSPS Land Title Surveys, geodetic control, preparation and review of parcel maps, final maps and Records of Survey, lot line adjustments, legal description preparation and GPS post-processing, and right-of-way mapping throughout California and Nevada. Chris will lead the surveying efforts for this project.

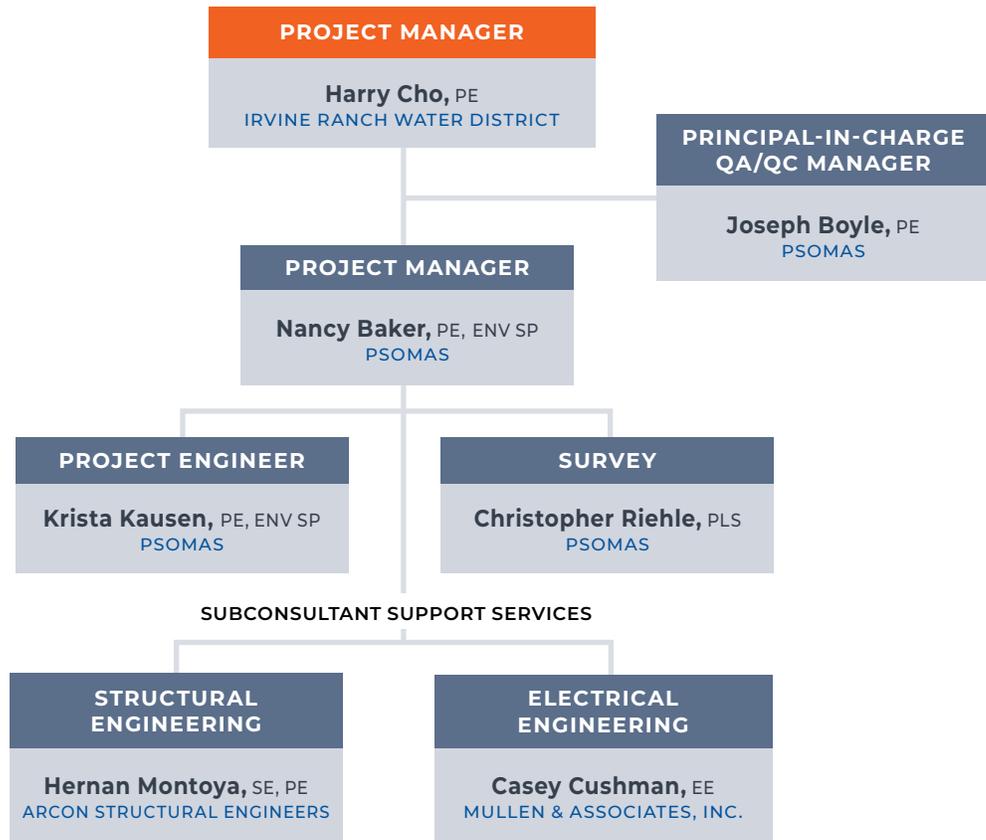
### Casey Cushman, EE | Mullen & Associates, Inc. | Electrical Engineering

Casey Cushman is an electrical engineer with over 30 years of experience in power distribution and control system design. Casey has designed over 18 lift stations, pump stations, and pressure reducing stations over the past 20 years. Additional projects include water pump stations, correctional and institutional buildings, distribution fault coordination and protection, and large site distribution. Casey will be responsible for all electrical and control design services.

### Hernan Montoya, SE, PE | Arcon Structural Engineers, Inc. Structural Engineering

Hernan Montoya has over 40 years of experience as a structural engineer designing a wide variety of projects. He has been in charge of engineering, quality assurance, and field support for various commercial, residential, industrial, civil and public works projects. Municipal, local agency, and public sector experience include the design of bridges, sewage lift and water pump stations, earth retaining structures, channels, culverts, towers for wireless communications, refuse transfer stations, and landfill gas to energy project structures.

## Organization Chart



## Psomas Team Contribution Table

The table below shows the percentage of time each team member will contribute to the project. The table also includes the home office and location of each project team member on the organization chart.

Name Home Office Location	Office Address	Role	Contribution
Nancy Baker, PE, ENV SP Psomas   Santa Ana Office	5 Hutton Centre Drive, Suite 300, Santa Ana, CA 92707	Project Manager	15%
Joseph Boyle, PE Psomas   Santa Ana Office	5 Hutton Centre Drive, Suite 300, Santa Ana, CA 92707	Principal-in-Charge QA/QC Manager	5%
Krista Kausen, PE, ENV SP Psomas   Santa Ana Office	5 Hutton Centre Drive, Suite 300, Santa Ana, CA 92707	Project Engineer	20%
Christopher Riehle, PLS Psomas   Santa Ana Office	5 Hutton Centre Drive, Suite 300, Santa Ana, CA 92707	Survey	5%
Hernan Montoya, SE, PE Arcon   Rancho Santa Margarita Office	22391 Gilberto, Rancho Santa Margarita, CA 92688	Structural Engineering	10%
Casey Cushman, EE Mullen   Anaheim Office	1200 N Jefferson Street # D Anaheim, CA 92807	Electrical Engineering	25%

## Resumes

Resumes for each team member shown on the Organization Chart are included on the following pages.

IRVINE RANCH WATER DISTRICT

Request for Proposal (RFP) to Provide Engineering Design Services  
for the District Wide Generator Fuel Storage Project

PSOMAS - FEE SCHEDULE

Scope of Work Tasks	Psomas Work Hours												Total Hours	Labor Cost	Sub		Sub		Total Hours	Direct Costs	Total Fee	
	QA/QC		PM		PE		PD		Survey		Admin				Electrical		Structural					
		\$250		\$225		\$170		\$120		\$215		\$100			Avg. Hourly Rate:	\$155	Avg. Hourly Rate:	\$165				
	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount	Wk-Hrs	Amount			Wk-Hrs	Amount	Wk-Hrs	Amount				
<b>SCOPE OF WORK TASKS</b>																						
<b>Task 1 - Project Management</b>																						
A.	Project Status Reports	0	\$ -	40	\$ 9,000	0	\$ -	0	\$ -	0	\$ -	0	\$ -	40	\$ 9,000	0	\$ -	0	\$ -	40	\$ -	\$ 9,000
B.	Meetings	0	\$ -	40	\$ 9,000	20	\$ 3,400	0	\$ -	0	\$ -	14	\$ 1,400	74	\$ 13,800	24	\$ 3,720	0	\$ -	98	\$ 500	\$ 18,020
C.	Quality Control/Quality Assurance	12	\$ 3,000	14	\$ 3,150	0	\$ -	0	\$ -	0	\$ -	0	\$ -	26	\$ 6,150	0	\$ -	0	\$ -	26	\$ -	\$ 6,150
Sub-total Task 1 - Project Management		12	\$ 3,000	94	\$ 21,150	20	\$ 3,400	0	\$ -	0	\$ -	14	\$ 1,400	140	\$ 28,950	24	\$ 3,720	0	\$ -	164	\$ 500	\$ 33,170
<b>Task 2 - Preliminary Design Memorandum</b>																						
A.	Utility Research	0	\$ -	2	\$ 450	12	\$ 2,040	0	\$ -	0	\$ -	30	\$ 3,000	44	\$ 5,490	0	\$ -	0	\$ -	44	\$ -	\$ 5,490
B.	Survey	0	\$ -	4	\$ 900	8	\$ 1,360	0	\$ -	94	\$ 20,210	0	\$ -	106	\$ 22,470	0	\$ -	0	\$ -	106	\$ -	\$ 22,470
C.	Review Geotechnical Reports	0	\$ -	12	\$ 2,700	0	\$ -	0	\$ -	0	\$ -	0	\$ -	12	\$ 2,700	0	\$ -	0	\$ -	12	\$ -	\$ 2,700
D.	Site Layout	7	\$ 1,750	30	\$ 6,750	40	\$ 6,800	120	\$ 14,400	0	\$ -	0	\$ -	197	\$ 29,700	0	\$ -	0	\$ -	197	\$ -	\$ 29,700
E.	Electrical	0	\$ -	4	\$ 900	0	\$ -	0	\$ -	0	\$ -	0	\$ -	4	\$ 900	82	\$ 12,710	0	\$ -	86	\$ -	\$ 13,610
F.	Instrumentation	0	\$ -	4	\$ 900	0	\$ -	0	\$ -	0	\$ -	0	\$ -	4	\$ 900	28	\$ 4,340	0	\$ -	32	\$ -	\$ 5,240
G.	Permitting	0	\$ -	4	\$ 900	32	\$ 5,440	0	\$ -	0	\$ -	20	\$ 2,000	56	\$ 8,340	0	\$ -	0	\$ -	56	\$ 3,000	\$ 11,340
H.	Construction Schedule	1	\$ 250	4	\$ 900	16	\$ 2,720	0	\$ -	0	\$ -	0	\$ -	21	\$ 3,870	0	\$ -	0	\$ -	21	\$ -	\$ 3,870
I.	Engineer's Estimate	2	\$ 500	8	\$ 1,800	20	\$ 3,400	0	\$ -	0	\$ -	0	\$ -	30	\$ 5,700	0	\$ -	0	\$ -	30	\$ -	\$ 5,700
Sub-total Task 2 - Preliminary Design Memorandum		10	\$ 2,500	72	\$ 16,200	128	\$ 21,760	120	\$ 14,400	94	\$ 20,210	50	\$ 5,000	474	\$ 80,070	110	\$ 17,050	0	\$ -	584	\$ 3,000	\$ 100,120
<b>Task 3 - Final Design</b>																						
A.	Project Manual	1	\$ 250	24	\$ 5,400	30	\$ 5,100	0	\$ -	0	\$ -	12	\$ 1,200	67	\$ 11,950	0	\$ -	0	\$ -	67	\$ -	\$ 11,950
B.	Construction Plans	40	\$ 10,000	96	\$ 21,600	245	\$ 41,650	360	\$ 43,200	0	\$ -	40	\$ 4,000	781	\$ 120,450	392	\$ 60,760	82	\$ 13,530	1255	\$ -	\$ 194,740
C.	Project Schedule	1	\$ 250	4	\$ 900	6	\$ 1,020	0	\$ -	0	\$ -	0	\$ -	11	\$ 2,170	0	\$ -	0	\$ -	11	\$ -	\$ 2,170
D.	Liquidated Damage Calculations	1	\$ 250	4	\$ 900	0	\$ -	0	\$ -	0	\$ -	0	\$ -	5	\$ 1,150	0	\$ -	0	\$ -	5	\$ -	\$ 1,150
E.	Opinion of Probable Costs	2	\$ 500	16	\$ 3,600	20	\$ 3,400	0	\$ -	0	\$ -	0	\$ -	38	\$ 7,500	20	\$ 3,100	10	\$ 1,650	68	\$ -	\$ 12,250
F.	Design Deliverables (75%, 100%, and Final)	20	\$ 5,000	34	\$ 7,560	86	\$ 14,578	126	\$ 15,120	0	\$ -	0	\$ -	265	\$ 42,258	85	\$ 13,175	22	\$ 3,630	372	\$ -	\$ 59,063
I.	Addenda Preparation and Pre-bid Meeting	2	\$ 500	16	\$ 3,600	26	\$ 4,420	16	\$ 1,920	0	\$ -	0	\$ -	60	\$ 10,440	22	\$ 3,410	0	\$ -	82	\$ 250	\$ 14,100
Sub-total Task 3 - Final Design		67	\$ 16,750	194	\$ 43,560	413	\$ 70,168	502	\$ 60,240	0	\$ -	52	\$ 5,200	1227	\$ 195,918	519	\$ 80,445	114	\$ 18,810	1860	\$ 250	\$ 295,423
Total Estimated Work		89	\$ 22,250	360	\$ 80,910	561	\$ 95,328	622	\$ 74,640	94	\$ 20,210	116	\$ 11,600	1841	\$ 304,938	653	\$ 101,215	114	\$ 18,810	2608	\$ 3,750	\$ 428,713

Legend	
<b>In-House Staff and Billing Rate</b>	<b>Subconsultants</b>
QA/QC - QA/QC Manager (Joe Boyle \$250/hr)	Electrical Engineering - Mullen and Associates
PM - Project Manager (Nancy Baker \$225/hr)	Structural Engineering - Arcon Structural Engineers
PE - Project Engineer (Krista Kausen \$170/hr)	
PD - Project Designer (Joseph Barrera \$120/hr)	
SUE - Professional Land Surveyor (Chris Riehle \$215/hr)	
Admin - Administrative Assistant (Daisy Cayetano \$100/hr)	



July 26, 2021

Prepared by: J. Corey / K. Welch

Submitted by: F. Sanchez / P. Weghorst

Approved by: Paul A. Cook

## ACTION CALENDAR

### APPROVAL OF FINAL ENVIRONMENTAL IMPACT REPORT FOR SYPHON RESERVOIR IMPROVEMENT PROJECT

#### SUMMARY:

The proposed Syphon Reservoir Improvement Project (the Project) would allow IRWD to increase recycled water storage at Syphon Reservoir to help IRWD reduce its dependence on costly and less reliable imported water during summer months. The project would also allow IRWD to maximize the use of recycled water in its service area. IRWD, as the Lead Agency, has prepared a Final Environmental Impact Report (EIR) for the Project. Staff recommends the Board:

- Consider the attached Final EIR, the Findings and Facts in Support of Findings, and the Mitigation Monitoring and Reporting Program (MMRP);
- Direct staff to incorporate into the findings, as presented in this meeting, such revisions as may be necessary to conform the findings to any information that may be received after preparation of said findings and prior to this action, including any changes made to the findings in adopting the Final EIR and any comments received from the Board at this meeting;
- Direct that the findings, as so revised, be attached to the resolution; and
- Adopt the attached resolution relative to certifying the Final EIR, adopting the written findings, approving the MMRP, approving the project and authorizing staff to file a Notice of Determination.

#### BACKGROUND:

IRWD, as the Lead Agency, proposes the Syphon Reservoir Improvement Project. The Project will allow IRWD to increase the storage capacity of the existing Syphon Reservoir to help IRWD reduce its dependence on costly and less reliable imported water during summer months. The Project would also allow IRWD to maximize the use of recycled water for public landscaping, agricultural, business, and industrial purposes in IRWD's service area.

The proposed Project would replace an existing engineered dam with a new engineered dam, increase the existing 59-foot dam height to 136 feet and increase the elevation of the dam crest from the existing 388 feet above mean sea level (amsl) to 466 feet amsl. A new spillway would be included with the new dam to protect the reservoir from overtopping. The replacement dam would result in the increase of the reservoir's maximum water surface elevation from the existing 376 feet amsl to 456 feet amsl and increase the reservoir's capacity from approximately 500 acre-feet (AF) to approximately 5,000 AF. As part of the new design, the engineered embankment dam would include a seepage control drainage system and a circulation / aeration system for the reservoir. The existing strainer and disinfection facilities would be demolished,

reconstructed and expanded at the toe of the new engineered dam to provide filtration, chlorination and de-chlorination. Additional project features include an inlet / outlet facilities control building, new onsite access and maintenance roads, wetland and riparian mitigation areas and a potential walking trail. A location map of the Syphon Reservoir is provided as Exhibit “A”.

#### Environmental Review of the Proposed Project:

Pursuant to the requirements of the California Environmental Quality Act (CEQA) and related guidelines, a Notice of Preparation of a Draft EIR was publicly circulated for 45 days on August 2, 2019, followed by a public scoping meeting which was held on August 21, 2019. The purpose of the scoping meeting was to provide the public and governmental agencies information on the CEQA process and to provide opportunities to identify environmental issues and alternatives for consideration in the Draft EIR.

#### *Public Review of the Draft EIR:*

On March 17, 2021, IRWD filed a Notice of Completion of a Draft EIR for the Project with the Governor’s Office of Planning and Research. Pursuant to Section 21091 of the Public Resources Code, the filing initiated a 60-day public review period. A Notice of Availability of the Draft EIR was posted on March 19, 2021, with the Orange County Clerk-Recorder and with the Governor’s Office of Planning and Research. A virtual public meeting was held on April 21, 2021. Two comments were received from the audience at the public meeting. The comments were in support of the environmental analysis included in the Draft EIR and included a request that the Final EIR include an inundation map with depth contours.

Eleven letters providing comments on the Draft EIR were received during the public review period. The agencies that provided comments are the Orange County Fire Authority, Irvine Unified School District, City of Irvine, California Department of Fish and Wildlife, Transportation Corridor Agencies, California Department of Transportation, Orange County Public Works and the City of Newport Beach. In addition to these agencies, two Irvine residents provided comment letters and one comment letter was received from IRWD Board Member Peer Swan. Staff and consultants from Environmental Science Associates (ESA) reviewed the written comments and prepared detailed responses to comments directed to any significant environmental issues. The comments, responses, and revisions to the Draft EIR text are included in a separate document comprised of additional chapters 8 through 11 which, together with the Draft EIR, comprise the Final EIR. The Final EIR is provided as Exhibit “B”. The Findings and Facts in Support of Findings for the Project are provided as Exhibit “C”. The associated MMRP is provided as Exhibit “D”.

As the lead agency, IRWD must comply with CEQA by considering the Final EIR, the environmental effects, proposed mitigation measures and all associated findings prior to reaching a decision on the Project. Staff recommends the Board consider these items and adopt the resolution, provided as Exhibit “E”, providing for the adoption of the findings and MMRP, approving the project and authorizing the filing of a Notice of Determination.

FISCAL IMPACTS:

No additional expenditures are recommended for approval at this time.

ENVIRONMENTAL COMPLIANCE:

This project is subject to CEQA and in conformance with California Code of Regulations Title 14, Chapter 3, Article 6, a Notice of Intent to adopt an Environmental Impact Report was filed with the County of Orange on March 19, 2021. Pursuant to State Guideline § 15073, the Draft EIR was made available for public review for a period of 60 days from March 19, 2021, through May 18, 2021. On July 15, 2021, response to comments were submitted to entities that commented on the Draft EIR and the Final EIR was made available consistent with the requirements of CEQA.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD DIRECT STAFF TO INCORPORATE INTO THE DRAFT FINDINGS AS PRESENTED IN THIS MEETING SUCH REVISIONS AS MAY BE NECESSARY TO CONFORM THE FINDINGS TO ANY INFORMATION THAT MAY BE RECEIVED AFTER PREPARATION OF SAID DRAFT AND PRIOR TO THIS ACTION, INCLUDING ANY CHANGES TO THE FINAL ENVIRONMENTAL IMPACT REPORT AND ANY COMMENTS FROM THE BOARD AT THIS MEETING; DIRECT THAT THE FINDINGS, AS SO REVISED, BE ATTACHED TO THE BELOW-MENTIONED RESOLUTION, THEN CONSIDER ADOPTING THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2021 –

RESOLUTION OF THE BOARD OF DIRECTORS OF  
THE IRVINE RANCH WATER DISTRICT  
CERTIFYING THE FINAL ENVIRONMENTAL IMPACT REPORT AND  
APPROVING THE SYPHON RESERVOIR IMPROVEMENT PROJECT

LIST OF EXHIBITS:

- Exhibit “A” – Location Map for Syphon Reservoir Improvement Project
- Exhibit “B” – Final Environmental Impact Report for Syphon Reservoir Improvement Project
- Exhibit “C” – Findings and Facts in Support of Findings
- Exhibit “D” – Mitigation Monitoring and Reporting Program
- Exhibit “E” – Draft Resolution Certifying the Final EIR and Approving the Project

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# EXHIBIT "A"



SOURCE: ESRI, 2016; OC LAFCO, 2018

IRWD Syphon Reservoir

**Figure 1-1**  
Project Location

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**Exhibit “B”**

**A COPY OF EXHIBIT “B” CAN BE OBTAINED FROM THE DISTRICT SECRETARY**

**AND IS AVAILABLE FOR DOWNLOAD AT THE FOLLOWING LINK:**

**<https://www.irwd.com/images/pdf/doing-business/environmental-documents/env-documents-2021/Syphon Draft and Final EIR Combined 1.pdf>**

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# Exhibit "C"

## FINDINGS AND FACTS IN SUPPORT OF FINDINGS

### IRVINE RANCH WATER DISTRICT SYPHON RESERVOIR IMPROVEMENT PROJECT (State Clearinghouse No. 2019080009)

#### I. Description of the Project

Irvine Ranch Water District (IRWD) is proposing the Syphon Reservoir Improvement Project (proposed project). The proposed project would involve increasing the capacity of Syphon Reservoir, which is an existing recycled water storage reservoir in unincorporated County of Orange, California. As part of the reservoir expansion, the existing engineered dam would be replaced with a new engineered dam that would meet or exceed the latest safety standards. The new dam would increase the recycled water reservoir capacity from approximately 500 acre-feet (AF) to 5,000 AF. The proposed project would allow IRWD to increase the storage capacity of the existing Syphon Reservoir to help IRWD become more self-sufficient by reducing its dependence on costly and less reliable imported water during summer months, and support the increased use of recycled water for public landscaping, agricultural, business and industrial uses in IRWD's service area. Increased use of recycled water for these non-drinking water purposes would make more drinking water available to the region to better withstand future water shortages. The proposed project is located on the northeast side of Portola Parkway between Bee Canyon Access Road and State Route 133 (SR-133), where the majority of the property bounded by these thoroughfares is owned by IRWD.

#### II. Compliance with the California Environmental Quality Act

IRWD is the Lead Agency for the project under the California Environmental Quality Act (CEQA). Pursuant to the requirements of the State CEQA Guidelines, a Notice of Preparation of an Environmental Impact Report (EIR) was publicly circulated for a 45-day period concluding September 16, 2019. In addition, IRWD held one public scoping meeting on August 21, 2019 at IRWD headquarters (15600 Sand Canyon Avenue, Irvine CA 92618) to provide the public and governmental agencies information on the CEQA process and to give further opportunities to identify environmental issues and alternatives for consideration in the EIR.

On March 19, 2021, IRWD posted a Notice of Availability of the Draft EIR (DEIR) with the County Clerk in Orange County. The DEIR was circulated for public review during a 60-day public review period established for the DEIR (March 19, 2021 through May 18, 2021). One virtual public meeting on the DEIR was held on April 21, 2021. There were 27 attendees at the meeting; three verbal comments were received from the audience at the meeting.

Written comments were received. IRWD reviewed all of the written comments received from interested persons, organizations and agencies and prepared detailed responses to the comments directed at significant environmental issues. The comments and responses, along with revisions to the DEIR text, are included in separate chapters, which, together with the DEIR, comprise the Final EIR (FEIR). The FEIR was provided to commenting agencies at least 10 days prior to consideration for approval.

#### III. Findings Regarding Potentially Significant Environmental Impacts

The FEIR described the baseline environmental setting and addressed the environmental resource areas in which the proposed project could result in potentially significant effects: aesthetics; air quality; biological resources; cultural resources; energy; geology and soils; greenhouse gas emissions; hazards and hazardous materials; hydrology and water quality; noise; recreation; transportation; tribal cultural resources; and wildfire. Measures to mitigate the impacts of the proposed project were presented for each resource area where potentially significant impacts were identified. Based on the results of the FEIR analysis, it was concluded that the implementation of environmental commitments incorporated into the project along with proposed mitigation would ensure that impacts to these environmental resources would be less than significant for the project.

The FEIR reviewed combined cumulative impacts associated with the project's effects in conjunction with the effects of past, present and reasonably foreseeable future projects in the same geographic area. For this purpose, the FEIR included a list of past, present and reasonably-foreseeable future capital improvement, development and other construction projects located in the vicinity of the project, as well as identified past, present and reasonably-foreseeable recreation plans and water supply projects in the project area. The cumulative impact analysis was conducted for each of the same environmental resources listed above for the project impact analysis. The FEIR analysis concluded that, with the implementation of the proposed mitigation measures, the project would not have any cumulatively significant impacts.

The FEIR was prepared in accordance with the CEQA-Plus requirements of the U.S. Environmental Protection Agency (USEPA). Environmental justice issues pertaining to the proposed project were addressed, and the proposed project was analyzed for compliance with federal laws and executive orders required to qualify for federal loan programs administered by U.S. Bureau of Reclamation (USBR) or the State Water Resources Control Board (SWRCB).

Population projections and water demands within the IRWD service area were presented and the growth-inducement potential of the project was analyzed.

CEQA provides that when an EIR identifies any significant environmental effects that would occur if the project is approved or carried out, the agency must make a finding or findings for each of the identified significant effects, accompanied by a brief explanation of the rationale for each finding. The possible types of findings are:

- Finding 1      Changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.
  
- Finding 2      Those changes or alterations are within the responsibility and jurisdiction of another public agency and have been, or can and should be, adopted by that other agency.
  
- Finding 3      Specific economic, legal, social, technological, or other considerations, including considerations for the provision of employment opportunities for highly trained workers, make infeasible the mitigation measures or alternatives identified in the environmental impact report.

CEQA provides that when making findings, a public agency must adopt a reporting monitoring program for the changes to the project that it has adopted or made conditions of approval in order to mitigate or avoid significant project-related impacts on the environment. In accordance

with CEQA, a Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the proposed project. The MMRP is designed to ensure compliance during implementation of the approved project through ongoing monitoring and reporting of adopted mitigation measures as well as environmental commitments incorporated into the project, such as project features included in the FEIR. The primary goal of the MMRP is to ensure that during final design, construction, and operation, the project will avoid or reduce potentially significant environmental impacts.

The facts listed herein in support of findings summarize the basis for the findings, as set forth more fully in the DEIR, FEIR, and appendices thereto. For convenience of reference, impacts and mitigation measures are referenced by designations given in the FEIR (e.g., “AES-1”). A complete description of each mitigation measure is contained in the MMRP. By specific topic area, the findings and facts in support of the findings are as follows:

### **A. Aesthetics**

POTENTIAL EFFECTS: Potential effects examined included: the potential to adversely affect a scenic vista or other scenic viewscapes [Impact 3.1-1]; the potential to substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway [Impact 3.1-2]; the potential to substantially degrade the existing visual character or quality of public views of the site and its surroundings [Impact 3.1-3]; the potential to create a new source of substantial light or glare which would adversely affect day or nighttime views in the area [Impact 3.1-4]; and the potential to result in cumulative short-term and long-term impacts to aesthetics [Impact 3.1-5].

FINDINGS: Adherence to the Mitigation Measure AES-1 listed in the FEIR will reduce Impact 3.1-1 and 3.1-3 to less than significant; adherence to Mitigation Measure AES-2 will reduce Impact 3.1-4 to less than significant; and adherence to Mitigation Measures AES-1 and AES-2 will reduce Impact 3.1-5 to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

Impact 3.1-2 will not occur. Because no significant environmental effects would occur related to this impact if the project is approved or carried out, no findings are required.

#### FACTS IN SUPPORT OF THE FINDINGS:

Impact 3.1-1: There are several locally designated scenic vistas/viewscapes that encompass the project site, including the Loma Ridge and Santa Ana Mountains, the San Joaquin Hills, and northeast views from the Sand Canyon Avenue and Portola Parkway intersection. Construction of the proposed project would require the use of construction equipment for a temporary period of time and would not affect the scale or quality of locally designated scenic vistas/viewscapes. Scenic vistas and viewscapes in the project vicinity would not be substantially degraded, and impacts would be less than significant.

A retaining wall would be installed north of the intersection of Sand Canyon Avenue and Portola Parkway, which would introduce permanent features into a native landscape that is identified by the City of Irvine as a “major view.” As a result, the impact would be considered a potentially significant impact to scenic viewscapes identified in the City of Irvine General Plan (General Plan). Mitigation Measure AES-1 would require design of the aboveground project structures, including retaining walls, to have color palettes that blend in with the surrounding character of

the project site. With implementation of Mitigation Measure AES-1, the impact to the “major view” at the intersection of Sand Canyon Avenue and Portola Parkway would be reduced to a less than significant level.

The enlarged dam would extend higher than the natural ridgelines seen in the existing condition from the entrance to the Crean Lutheran High School Athletic Complex. The permanent impact to the viewscape of prominent ridgelines of Loma Ridge and the Santa Ana Mountains within the City of Irvine would be a potentially significant impact. The proposed project includes revegetation of the dam face as a project design feature, which would allow the enlarged dam to blend into the surrounding hillsides. The types of vegetation used and associated maintenance would conform with Department of Safety of Dams (DSOD) requirements. With implementation of project design features, impacts would be reduced to a less than significant level. Background views of the Santiago Hills, identified as a “major ridgeline of importance,” would be maintained. Furthermore, the increase in water within the reservoir provides an aesthetic benefit to the overall viewscape. As a result, impacts would be less than significant.

Impact 3.1-3: The project site and surrounding area has moderate to high visual quality, but is not considered highly visually sensitive when affected viewers and viewer exposure conditions are taken into account. The low contrasting visual elements of construction would be temporary and would not permanently affect the existing visual character and quality of the surrounding area. All impacts from construction-related activities would be less than significant. To ensure that all aboveground project structures would not impact the visual character or quality of the project site or surrounding area, Mitigation Measure AES-1 would require design of the aboveground project structures to have color palettes that blend in with the surrounding character of the project site. As a result, the proposed project would not modify the visual quality of the surrounding area; impacts would be less than significant.

Impact 3.1-4: Once operational, aboveground project components that could require lighting in the project area include the proposed treatment facilities and new access road. The proposed treatment facilities and access road would require lighting that could affect nighttime views. Mitigation Measure AES-2 would require all new permanent exterior lighting to be shielded or directed downward to minimize light cast on neighborhood residences directly adjacent to the project site. As a result, impacts to light during operation would be less than significant with mitigation. When reservoir levels are at their peak in the winter and spring months, the reservoir could create new sources of glare from an increased water surface area. However, this potential increase would be marginal, not in effect in the summer months when daytime hours are at their highest, and only noticeable to motorists travelling on SR-133 for brief periods of time (several seconds). As a result, impacts to daytime glare would be less than significant.

Impact 3.1-5: The geographical extent of cumulative impacts related to aesthetic includes viewsheds in which the project is visible. Significant cumulative impacts related to aesthetics could occur if the project, in conjunction with Cumulative Projects 3 (Gateway Community Park), 9 (Truck Route Roadway Rehabilitation Project) and 10 (18-19 Athletic Court Resurfacing), could block significant scenic vistas, create cumulative light and glare, or substantially degrade the visual quality of an area. Projects 3, 9, and 10 are projects that either involve resurfacing of roadways or recreational facilities, or creation of recreational facilities.

While these projects would involve construction equipment similar to the proposed project, the machinery would not be visible above the existing vegetation lines within the City of Irvine and would therefore not combine together with the project to create a significant impact to nearby scenic vistas. Once constructed, these projects would not involve aboveground facilities and

therefore would not contribute to cumulative visual impacts. There are no other projects within the cumulative scenario in close proximity to the project site that would block scenic vistas, resources, or negatively impact visual character or quality. As discussed above, the proposed project would result in the introduction of project features that could contrast with designated scenic resources in the City of Irvine and the County of Orange. The project would be required to implement Mitigation Measures AES-1 and AES-2, which would require permanent facilities to blend in with the surrounding color palette. During construction, less than sufficient impacts due to equipment would occur. Implementation of mitigation measures would reduce the project's incremental contribution to cumulative impacts in the area, and impacts would be less than significant with mitigation. Therefore, the project would not combine together with the projects in the cumulative scenario to be cumulatively considerable, and impacts would be less than significant with mitigation.

MITIGATION MEASURES: AES-1 and AES-2.

## **B. Air Quality**

POTENTIAL EFFECTS: Potential effects examined included the potential to: conflict with or obstruct implementation of the applicable air quality plan [Impact 3.2-1]; result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard [Impact 3.2-2]; expose sensitive receptors to substantial pollutant concentrations [Impact 3.2-3]; result in other emissions (such as those leading to odors) adversely affecting a substantial number of people [Impact 3.2-4]; and the potential to result in cumulative short-term and long-term impacts to air quality [Impact 3.2-5].

FINDINGS: Adherence to the Mitigation Measure AIR-1 listed in the FEIR will reduce Impacts 3.2-1, 3.2-2, 3.2-3, and 3.2-5 to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

Impact 3.2-4 will be less than significant, requiring no mitigation. Because no significant environmental effects would occur related to this impact if the project is approved or carried out, no findings are required.

### FACTS IN SUPPORT OF THE FINDINGS:

Impact 3.2-1: The proposed project is located within the Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). As such, SCAQMD's 2016 Air Quality Management Plan (AQMP) is the applicable air quality plan for the proposed project. Projects that are consistent with the regional population, housing, and employment forecasts identified by Southern California Association of Governments (SCAG) are considered to be consistent with the AQMP growth projections, since the forecast assumptions by SCAG forms the basis of the land use and transportation control portions of the AQMP. The proposed project would result in an increase in short-term employment compared to existing conditions. Being relatively small in number and temporary in nature, construction jobs created by the project would not conflict with the long-term employment projections upon which the AQMP is based. The proposed project is required to comply with SCAQMD and California Air Resources Board (CARB) regulations. Compliance with these requirements is consistent with and meets or exceeds the AQMP requirements for control strategies intended to reduce emissions from construction equipment and activities.

Nonetheless, as discussed further below in the analysis for Impact 3.2-2, even though the proposed project would be consistent with applicable strategies in the AQMP, local and state regulations, and other voluntary measures designed to reduce non-attainment pollutants, regional emissions during construction of the proposed project would exceed the significance threshold for Nitrogen Oxide (NO<sub>x</sub>). Therefore, impacts related to consistency with air quality plans during construction of the proposed project would be potentially significant. Construction-related daily emissions would be reduced to below the SCAQMD threshold of significance of significance for NO<sub>x</sub> with the implementation of Mitigation Measure AIR-1. As the proposed project's maximum regional emissions from construction would not exceed the regional thresholds of significance with implementation of mitigation measures, the proposed project would be consistent with the AQMP, and impacts would be reduced to a less than significant level.

The project does not result in a change in land use, nor does it result in residential or employment growth for the region. Additionally, as detailed under Impact 3.2-2 below, the operational emissions will not exceed regulatory thresholds. Therefore, operation of the proposed project would be consistent with the AQMP, and impacts would be reduced to a less than significant level.

*Impact 3.2-2: Regional Emissions Analysis (Construction).* Construction of the proposed project has the potential to generate temporary regional criteria pollutant emissions through the use of heavy-duty construction equipment, through vehicle trips generated by workers and haul trucks traveling to and from the proposed project site, and through building activities such as the application of paint and other surface coatings. Mobile source emissions, primarily NO<sub>x</sub>, would result from the use of construction equipment such as dozers and loaders. As shown in Table 3.2-6 of the FEIR, construction-related daily emissions would be reduced to below the SCAQMD threshold of significance for NO<sub>x</sub> with the implementation of Mitigation Measure AIR-1. As the proposed project's maximum regional emissions from construction would not exceed the regional thresholds of significance with implementation of mitigation measures, the proposed project's regional construction emissions impacts would be less than significant.

*General Conformity Analysis (Construction).* Annual emissions for unmitigated and mitigated emissions were compared to the General Conformity de minimis levels for NAAQS non-attainment areas (see Table 3.2-7 of the FEIR). With implementation of Mitigation Measure AIR-1, annual construction emissions of Volatile Organic Compounds (VOC), Carbon Monoxide (CO), NO<sub>x</sub>, particulate matter in 10 micrometers or less in diameter (PM<sub>10</sub>), and particulate matter in 2.5 micrometers or less in diameter (PM<sub>2.5</sub>) would be below applicable General Conformity de minimis levels and thus would not conflict with implementation of the State Implementation Plan (SIP). Additionally, short-term direct construction emissions associated with the project would not conflict with or obstruct implementation of applicable long-term air quality management plans. Therefore, no further conformity analysis is required for any of the pollutants because their emissions would be less than the conformity de minimis levels, and no significant adverse effect from the project would occur.

*Regional Emissions Analysis (Operation).* The proposed project's operational-related daily emissions would not exceed the SCAQMD thresholds of significance for any criteria pollutants. As the proposed project's maximum regional emissions from operational activities would be below the regional thresholds of significance, regional operation-related emissions impacts would be less than significant.

*General Conformity Analysis (Operation).* Daily operational emissions are less than one pound per day for all criteria pollutants. Therefore, annual emissions would be less than 0.2 tons per year, well below any of the de minimis thresholds, thus in conformance with the SIPs. Additionally, operational emissions associated with the proposed project would not conflict with or obstruct implementation of applicable long-term air quality management plans. Therefore, no further conformity analysis is required for any of the pollutants because their emissions would be less than the conformity thresholds and no significant adverse effect from the project would occur.

*Health Impact Assessment:* As shown in Table 3.2-5 of the FEIR, unmitigated project-related construction emissions would potentially exceed regional thresholds for NO<sub>x</sub>. Accordingly, elevated levels of criteria air pollutants as a result of a project's emissions could cause adverse health effects associated with this pollutant. All other criteria pollutants would be below the thresholds of significance. Implementation of Mitigation Measure AIR-1 would reduce both localized (see Impact 3.2-3 below) and regional project generated construction emissions, and therefore would reduce the potential to result in regional health effects associated with ozone precursors (VOC and NO<sub>x</sub>). As shown in Table 3.2-6 of the FEIR, mitigated project construction emissions would not exceed the thresholds of significance. As a result, construction of the proposed project would not have the potential to result in additional quantifiable health impacts, and impacts would be reduced to a less than significant level with implementation of Mitigation Measure AIR-1.

As discussed under operational emissions above, unmitigated project-related operational emissions would not exceed regional thresholds for any criteria pollutant. Accordingly, levels of criteria air pollutants as a result of a project's emissions are not anticipated to cause adverse health effects. Impacts would be less than significant.

*Impact 3.2-3: Local Criteria Pollutant Emissions.* As shown in Table 3.2-8 of the FEIR, maximum localized construction emissions for sensitive receptors would exceed the localized threshold of significance for NO<sub>x</sub>, therefore, with respect to localized construction emissions, impacts to sensitive receptors would be potentially significant. As shown in Table 3.2-9 of the FEIR, construction-related daily emissions would be reduced to below the SCAQMD threshold of significance for NO<sub>x</sub> with the implementation of Mitigation Measure AIR-1. For all other criteria pollutants, emissions levels would remain below the applicable thresholds of significance. As the proposed project's maximum localized emissions from construction would not exceed the localized thresholds of significance, localized construction emissions impacts would be less than significant with the incorporation of Mitigation Measure AIR-1.

The proposed project's maximum localized operational emissions would not exceed the localized thresholds of significance for NO<sub>x</sub>, CO, PM<sub>10</sub>, or PM<sub>2.5</sub>. Therefore, impacts of operational emissions to sensitive receptors would be less than significant.

*Toxic Air Contaminates.* The Toxic Air Contaminant (TAC) emissions of the proposed project would be generated from mobile sources including diesel-powered heavy-duty trucks and construction equipment. Implementation of Mitigation Measure AIR-1 would reduce diesel particulate matter (DPM) emissions from the proposed project's construction activities. The estimated incremental cancer risk for the proposed project's construction activities with implementation of Mitigation Measure AIR-1 would be between 1.43 per million and 3.44 per million depending on the level at which the mitigation is implemented. Both unmitigated and mitigated non-carcinogenic health risk would be below the significance threshold of a chronic HI of 1.0 for the maximum impacted receptor. Therefore, this impact would be less than significant.

Impact 3.2-5: As described above under Impact 3.2-1, construction-related daily emissions would be reduced to below the SCAQMD threshold of significance for NO<sub>x</sub> with the implementation of Mitigation Measure AIR-1. As the proposed project's maximum regional emissions from construction would not exceed the regional thresholds of significance, the proposed project would be consistent with the AQMP and cumulative impacts would be less than significant.

Operation of the proposed project also would be consistent with the AQMP as the proposed project would not generate emissions of nonattainment pollutants or precursors (i.e., VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>) that exceed the applicable significance thresholds. Therefore, the proposed project would result in a less than significant cumulative operational impact.

As described above under Impact 3.2-2 and Impact 3.2-3, regional and localized emissions during construction of the proposed project would exceed the SCAQMD significance threshold for NO<sub>x</sub>. Thus, based on SCAQMD methodology, the proposed project construction emissions would represent a considerable contribution to a cumulative impact, resulting in a potentially significant cumulative impact. The proposed project's construction-related daily emissions would be reduced to below the SCAQMD regional and local thresholds of significance for NO<sub>x</sub> with the implementation of Mitigation Measure AIR-1. As the proposed project's maximum mitigated regional emissions from construction would not exceed the regional thresholds of significance, the proposed project would not represent a considerable contribution to a cumulative impact, resulting in a less than significant cumulative impact.

As discussed under Impact 3.2-2 and Impact 3.2-3, above, regional and localized operational emissions of VOC, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> would not exceed the SCAQMD significance thresholds. Thus, based on SCAQMD methodology, the proposed project's operational emissions would not represent a considerable contribution to a cumulative impact, resulting in a less than significant cumulative impact.

MITIGATION MEASURES: AIR-1.

### **C. Biological Resources**

POTENTIAL EFFECTS: Potential effects examined included the potential to: have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service [Impact 3.3-1]; have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service [Impact 3.3-2]; have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means [Impact 3.3-3]; interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites [Impact 3.3-4]; conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance [Impact 3.3-5]; conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan [Impact 3.3-6]; and the potential to result in cumulative impacts to biological resources [Impact 3.3-7].

FINDINGS: Adherence to Mitigation Measures BIO-1 through BIO-5 listed in the FEIR will reduce Impact 3.3-1 to less than significant; adherence to Mitigation Measures BIO-6 and BIO-7 will reduce Impact 3.3-2 to less than significant; adherence to Mitigation Measure BIO-3 will reduce Impact 3.3-4 to less than significant; adherence to Mitigation Measures BIO-1 through BIO-6 will reduce Impact 3.3-5 to less than significant; adherence to Mitigation Measures BIO-1 through BIO-3 will reduce Impact 3.3-6 to less than significant; and adherence to Mitigation Measures BIO-1 through BIO-7 will reduce Impact 3.3-7 to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

Impact 3.3-3 will be less than significant, requiring no mitigation. Because no significant environmental effects would occur related to this impact if the project is approved or carried out, no findings are required.

#### FACTS IN SUPPORT OF THE FINDINGS:

Impact 3.3-1: *Special-Status Plant Species*. Four special-status plant species, Catalina mariposa lily (CRPR 4.2, NCCP/HCP Covered), intermediate mariposa lily (CRPR 1B.2), multi-stemmed dudleya (CRPR 1B.2), and San Diego County viguiera (CRPR 4.3), were observed within the proposed project site during focused surveys in 2018 and 2019. The proposed project will avoid removal or damage to any specimens of multi-stemmed dudleya, and San Diego County viguiera. Therefore, the proposed project would not impact these special-status plant species, and no mitigation is required. The proposed project will avoid more than 90 percent of the Catalina mariposa lily specimens identified on-site, and would remove approximately 24 of the total 309 Catalina mariposa lily individuals during construction (shown in Figure 3.3-9A of the FEIR). This loss would not threaten the existence of the on-site population, and would not be significant. Therefore, impacts to Catalina mariposa lily are less than significant, and no mitigation is required.

*Special-Status Wildlife Species*. Special-status wildlife species observed, or considered to have a moderate or high potential to occur within the proposed project site, include the following NCCP/HCP Covered Species: coastal California gnatcatcher, orange-throated whiptail, southern California rufous-crowned sparrow, red-shouldered hawk, northern harrier, American peregrine falcon, sharp-shinned hawk, coastal whiptail, San Diego desert woodrat, and coyote. Two species that are Conditionally Covered under the NCCP/HCP, least Bell's vireo and prairie falcon, were also observed. Several other species that are not "covered species" under the NCCP/HCP were also identified, including yellow warbler, yellow-breasted chat, grasshopper sparrow, Vaux's swift, and the California fully protected white-tailed kite.

Potential impacts to Covered Species within the Reserve are considered adequately covered under the NCCP/HCP provided that the proposed project complies with the NCCP/HCP provisions. The proposed project would permanently impact a total of 28.37 acres (with Treatment Facility Option A)/28.49 acres (with Treatment Facility Option B) of coastal sage scrub communities. The proposed project would temporarily impact 0.85 acre of California sagebrush scrub. Implementation of Mitigation Measures BIO-1 (to spend allotted Incidental Take Credits for participating landowners), BIO-2, and BIO-3 would reduce impacts to a less than significant level.

The least Bell's vireo is a federal and state Endangered species and is a Conditionally Covered species under the NCCP/HCP. This species is found in riparian habitat, and 17 least Bell's vireo individuals and/or territories were observed on-site in 2019 (point locations and territories are shown

in Figure 3.3-9B of the FEIR). Based on provision of acceptable mitigation, the Wildlife Agencies have indicated that the NCCP/HCP conditional coverage will apply for the proposed project's impacts to least Bell's vireo. Nevertheless, there will be a temporary loss of these habitats until construction is completed and riparian habitat can be re-established that the species can use again. This temporary loss would be potentially significant in terms of the temporary reduction to the amount of habitat available in the local region. Implementation of Mitigation Measures BIO-3 and BIO-4 would reduce impacts to a less than significant level.

For yellow warbler and yellow-breasted chat, which utilize woody riparian habitat similar to the least Bell's vireo, several of each species were observed on-site in 2019. The locations of yellow warbler and yellow-breasted chat observed within the project site are shown in Figure 3.3-9B of the FEIR. Although there will ultimately be no net loss of riparian habitat for these special-status species with the creation of riparian habitat areas on-site, the temporal loss of habitat for yellow warbler and yellow-breasted chat may be considered potentially significant as it would reduce the amount of available habitat for these species in the local region until an equivalent habitat area is reestablished. Implementation of Mitigation Measures BIO-3 and BIO-4 would reduce impacts to a less than significant level.

Given the potentially suitable habitat acreage that will be avoided by the proposed project, as well as natural areas within the surrounding vicinity, the limited potential impacts to foraging and/or nesting habitats of all other wildlife species, if still present on-site, are not expected to threaten regional populations.

Direct impacts to avian species during the non-breeding season would not be potentially significant as these species are mobile and would be expected to fly away from the construction area, if present. However, if construction and maintenance work cannot be scheduled outside of nesting season, impacts to nesting special-status bird species would be potentially significant. Implementation of Mitigation Measure BIO-3 would reduce impacts to a less than significant level.

Impact 3.3-2: The proposed project would permanently impact 61.56 acres (with Treatment Facility Option A)/61.68 acres (with Treatment Facility Option B) of sensitive natural communities, including 0.09 acre of arroyo willow thicket, 4.07 acres of black willow thicket, 0.77 acre of coyote brush scrub, 0.19 acre of chaparral bushmallow scrub, 0.06 acre of chaparral bushmallow scrub/non-native herbaceous cover, 27.22 acres (with Option A)/27.34 acres (with Option B) of California sagebrush scrub, 0.98 acre of California sagebrush scrub/non-native herbaceous cover, and 28.18 acres of non-native herbaceous cover/California sagebrush scrub. The proposed project would temporarily impact 0.85 acre of California sagebrush scrub. Impacts to sensitive natural communities that would result from the proposed project would be potentially significant. Implementation of Mitigation Measure BIO-6 would reduce impacts to a less than significant level.

In addition, a large portion of the proposed project site contains riparian and freshwater marsh habitat as well as the open water associated with the existing reservoir, which are all considered to be subject to California Department of Fish and Wildlife (CDFW) jurisdiction, which includes lakes, streams, and associated vegetation. The proposed project would temporarily impact 26.35 acres of CDFW jurisdictional lakes, streams, and associated vegetation, of which 0.05 acre would be considered a beneficial impact (i.e., the areas will be impacted to create riparian woodland or freshwater marsh habitat). Table 3.3-4 of the FEIR summarizes the temporary impacts on CDFW jurisdictional riparian habitat from the proposed project (shown in Figure 3.3-12A). The proposed project would also create at least 6.58 acres of on-site riparian woodland and approximately 5.88 acres of additional on-site woody riparian and/or freshwater marsh habitat and enlarge the reservoir, which would expand the open water resources on-site. Thus,

the proposed project would result in a beneficial impact, which would increase the amount of CDFW jurisdictional riparian habitat, and impacts would be less than significant. Because the proposed project will be altering a substantial area subject to CDFW jurisdiction, the proposed project must comply with Mitigation Measure BIO-7 to obtain a Streambed Alteration Agreement from CDFW.

Maintenance of the created riparian/wetland habitat areas, which will include creation of sensitive riparian communities that include riparian habitat subject to CDFW regulatory jurisdiction, would be required for up to 5 years after construction is complete for the proposed habitat areas to meet success criteria and provide good quality wildlife habitat. Re-establishing an equivalent or greater area of such habitat would be considered to have a beneficial impact as it would result in no net loss of CDFW jurisdictional area.

Impact 3.3-4: The proposed project would temporarily drain the existing reservoir, which is used by a number of birds and other wildlife for water supply and foraging. IRWD already periodically drains the reservoir as part of its current normal operations; however, the reservoir will be drained until project completion. The proposed project would impact 121.43 acres of natural communities during construction on-site, which could disrupt local movement and displace wildlife within the proposed project's footprint, particularly within the riparian habitats on-site. The proposed project would avoid 144.31 acres of natural communities; thus, displaced wildlife utilizing upland habitats can disperse to other upland areas on-site, and the impacted areas would not inhibit local or regional movement of wildlife within these avoided areas of the proposed project site, though wildlife that is more sensitive to human disturbances and noise may be deterred by the nearby construction activities.

Once completed, the enlarged reservoir will provide greater water storage capacity and an expanded open water area for migrating birds. The proposed project will create at least 6.58 acres of on-site riparian woodland and approximately 5.88 acres of additional on-site woody riparian and/or freshwater marsh habitat that would be maintained to consistently provide habitat year-round, which would be a benefit to migratory species. In addition, approximately 10.47 acres of coastal sage scrub habitat would be created in an area northeast of the reservoir that currently exhibits predominantly low-value ruderal grassland. Therefore, with the creation of the on-site riparian and upland habitat, impacts to local movement are not expected to be significant. Thus, impacts to regional and local wildlife movement are considered less than significant, and no mitigation is required.

Regarding the proposed project's potential to "impede the use of native wildlife nursery sites," to the extent mass grading and construction activities occur during the breeding season and in close proximity to active nests or suitable nesting habitat, the proposed project may have potentially significant direct impacts. Nesting activity typically occurs from February 15 to August 31 (or January 15 to June 31 for raptors). Active nests and eggs are protected under Fish and Wildlife Code Section 3503. Impacts to any active songbird or raptor nests would violate State law and may be considered potentially significant, particularly with regard to special-status bird species. Implementation of Mitigation Measure BIO-3 would avoid violation of the Fish and Game Code and reduce potential impacts to special-status birds to a less than significant level.

When maintenance of the riparian and upland habitat areas involves vegetation removal (e.g., weeding) and cannot be scheduled outside of nesting season, such work could impact nesting bird species, which could be potentially significant. Implementation of Mitigation Measure BIO-3 would reduce impacts to a less than significant level.

Impact 3.3-5: The General Plan's Land Use Element Policy 9, Enhancement of Environment ensures that all land use activities seek to enhance the physical environment, including the air, water, sound levels, landscape, and plant and animal life, and recognizes the need to improve both the manmade and natural environments. Plant and animal life that may be disrupted by the proposed project will be offset through the creation of riparian and upland habitat areas and proposed mitigation, so while these created habitat and mitigation areas may not enhance the physical environment, they will ensure the preservation of biologically equivalent plant and wildlife resources. Thus, the proposed project would not conflict with this policy.

The General Plan's Resources Element Policy 1, Wildlife and Vegetation requires the identification and preservation of the significant wildlife and vegetation habitats of the County. As discussed above, impacts to special-status species and sensitive natural communities are analyzed and mitigation is proposed for impacts that are determined to be potentially significant. Implementation of Mitigation Measures BIO-1, BIO-2, BIO-3, BIO-4, BIO-5, and BIO-6 would reduce impacts to a less than significant level.

If maintenance of the riparian and upland habitat areas includes vegetation removal (e.g., weeding) and cannot be scheduled outside of nesting season, impacts to nesting special-status bird species, would be potentially significant. Implementation of Mitigation Measure BIO-3 would reduce impacts to a less than significant level.

Impact 3.3-6: The proposed Syphon Reservoir Improvement Project is a permitted use within the Reserve System. Compliance with specific conditions required for NCCP/HCP conditionally covered species (i.e., least Bell's vireo) are discussed above. However, the removal of coastal sage scrub communities would be considered potentially significant. Implementation of Mitigation Measures BIO-1 and BIO-2 would reduce impacts to a less than significant level.

When maintenance of the riparian and upland habitat areas involves vegetation removal (e.g., weeding) and cannot be scheduled outside of nesting season, such work could impact nesting special-status bird species, which could be potentially significant. Implementation of Mitigation Measure BIO-3 would reduce impacts to a less than significant level, and thus would not conflict with the provisions of the Central & Coastal Subregion NCCP/HCP.

Impact 3.3-7: The geographic area of analysis of cumulative impacts for biological resources includes the area bounded by those projects listed in Table 3-1 of the FEIR and generally corresponds to the portion of Orange County along the front of the Santiago Hills in the vicinity of the proposed project, as well as adjacent mountains and lowlands to the east and west, respectively. Cumulative Projects 1 (Peters Canyon Regional Park General Development Plan and Resource Management Plan) and Cumulative Project 2 (2014 Irvine Ranch Open Space Donation Interim Recreation and Resource Management Plan) are proposed within areas that support native habitat, and Peters Canyon Regional Park has known locations of California gnatcatchers and least Bell's vireo; however, both of these projects include recreational improvements (e.g., trail/trailhead improvements, and associated facilities) that will have minimal impacts on biological resources. Cumulative Projects 3, 4, 6, 7, and 17 include a park, residential developments, and a pump station, and all are located on sites that currently or formerly support agriculture; thus, impacts on biological resources are minimal. For all of these projects, significant impacts to biological resources will be mitigated to a less than significant level resulting in less than significant cumulative impacts.

Construction and operation of the proposed project, in combination with other projects in the area, has the potential to contribute to a cumulatively significant impact to biological resources

due to the potential disturbance and/or loss of natural communities, some of which are sensitive, and the wildlife species that they support, including special-status species unique to the region. The proposed project site is within the Central Subregion of the Central/Coastal NCCP/HCP. The NCCP/HCP Reserve System design has set aside approximately 37,000 acres within the NCCP/HCP Reserve for long-term management. By preserving large habitat blocks and maintaining connectivity, the NCCP/HCP Reserve System has minimized the cumulative impacts of projects in the region to allow for the protection of natural communities and species while allowing a reasonable amount of economic development in the region. The NCCP/HCP authorizes “take” of 39 “Identified Species” of plants and wildlife to the extent take authorization may be required for those species under the state or federal endangered species acts. The NCCP/HCP addresses the protection and management of coastal sage scrub habitat and coastal sage scrub-obligate species, and other covered habitats and species, and mitigates anticipated impacts to those habitats and species, on a programmatic, sub-regional level, rather than on a project-by-project, single species basis. The 37,000-acre NCCP/HCP Reserve System, adaptive management program, and other measures of the NCCP/HCP were determined to fully mitigate “take” of these species and habitats, and minimize the cumulative impacts of proposed projects within authorized take lands. Conditionally covered species are also authorized for “take” so long as the specific conditions (e.g., mitigation measures) outlined in the NCCP/HCP are implemented.

With implementation of Mitigation Measures BIO-1 through BIO-7, the proposed project would not result in significant impacts to biological resources and would be consistent with the provisions of the NCCP/HCP. Given the required mitigation for the current proposed project, the NCCP/HCP, which minimizes the cumulative impacts of proposed projects within authorized take lands, and requires adherence to federal, state, and local laws for other projects in the cumulative region, the proposed contribution to cumulative impacts to biological resources would not be cumulatively considerable and would be considered less than significant.

MITIGATION MEASURES: BIO-1, BIO-2, BIO-3, BIO-4, BIO-5, BIO-6, and BIO-7.

#### **D. Cultural Resources**

POTENTIAL EFFECTS: Potential effects examined included the potential to: cause a substantial adverse change in the significance of a historical resource pursuant to CEQA Guidelines Section 15064.5 [Impact 3.4-1]; cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5 [Impact 3.4-2]; disturb human remains, including those interred outside of formal cemeteries [Impact 3.4-3]; and the potential to result in cumulative impacts to cultural resources [Impact 3.4-4].

FINDINGS: Adherence to Mitigation Measures CR-1 through CR-4 listed in the FEIR will reduce Impacts 3.4-1, 3.4-2 and 3.4-4 to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

Impact 3.4-3 will be less than significant, requiring no mitigation. Because no significant environmental effects would occur related to this impact if the project is approved or carried out, no findings are required.

FACTS IN SUPPORT OF THE FINDINGS:

Impact 3.4-1: A total of nine resources were identified within the proposed project site as a result of the cultural resources assessment. These include four prehistoric archaeological sites (CA-ORA-601, -1237, -1246, and -1400), an isolated prehistoric mano (ISO-HC-001), a historic-period archaeological site consisting of an artifact scatter and foundation remnants (the Latrine Site), and three historic period built architectural resources (a segment of P-30-176748/Highline Canal, a small stucco building designated IRWD-Cottage, and the Syphon Dam Reservoir and Facilities). Several resources were destroyed or not considered eligible for listing in the California Register. Site CA-ORA-1237 occurs along the northern boundary of the proposed project site, in close proximity to proposed grading and contouring, which will involve ground disturbance. The Latrine site occurs in the western portion of the proposed project site, near a proposed recreational trail. With implementation of Mitigation Measure CR-1, however, which provides procedures for avoidance of the two unevaluated resources, impacts would be less than significant. Four resources (CA-ORA-1400, a segment of P-30-176748/Highline Canal, the IRWD-Cottage, and the Syphon Reservoir and Facilities) will likely be impacted by the proposed project. Since none of the four resources that will be impacted by the proposed project qualify for listing in the National or California Register, none are historical resources as defined in CEQA Guidelines Section 15064.5, and impacts to the resources would not be significant. Finally, an analysis of indirect impacts to adjacent historical resources was conducted and the proposed project would not result in an indirect impact to historical resources. Impacts would be less than significant to known resources.

The presence of both historic period and prehistoric archaeological sites within, and within the vicinity of, the proposed project area indicates that the area is sensitive for archaeological resources. If unknown archaeological resources are encountered during the proposed project's implementation, and if such resources are determined to be historical resources as defined in CEQA Guidelines Section 15064.5, impacts to the resources would be considered significant. Mitigation Measures CR-2 through CR-4, which require construction worker sensitivity training, cultural resources monitoring, and treatment of unanticipated discoveries, would ensure that impacts are reduced to a less than significant level. While potential impacts to cultural resources are most likely to occur during the proposed project's construction, operation and maintenance activities, including activities that involve ground disturbance, do have a low potential to encounter previously undocumented archaeological resources. Mitigation Measure CR-4, which requires appropriate treatment of unanticipated discoveries, would ensure that any resources encountered during maintenance are not significantly impacted. As a result, impacts during operation would be reduced to a less than significant level.

Impact 3.4-2: Six archaeological resources were identified within the proposed project site, including four previously documented archaeological sites, one prehistoric isolate and one historic-period archaeological site. As discussed above, two of the previously documented sites (CA-ORA-601 and -1246) could not be relocated and are presumed destroyed. CA-ORA-1400 was previously determined ineligible for the National Register and the California Register, and is not a significant archaeological resource pursuant to CEQA Guidelines Section 15064.5. As an isolated occurrence, ISO-HC-001 also is not a significant archaeological resource. Two resources (CA-ORA-1237 and the Latrine Site) have not been evaluated for listing in the California Register and could qualify as archaeological resources pursuant to Section 15064.5. Both occur in close proximity to proposed project activities. However, with implementation of Mitigation Measure CR-1, both resources would be protected by Environmentally Sensitive Area fencing and avoided.

The presence of both historic period and prehistoric archaeological sites within and within the vicinity of the proposed project area indicates that the area is sensitive for archaeological

resources. If unknown archaeological resources are encountered during project implementation, and if such resources are determined to be archaeological resources as defined in CEQA Guidelines Section 15064.5, impacts to the resources would be considered significant. Mitigation Measures CR-2 through CR-4 would ensure that any impacts are reduced to a less than significant level. While potential impacts to cultural resources are most likely to occur during the proposed project's construction, operation and maintenance activities, including activities that involve ground disturbance, do have a low potential to encounter previously undocumented archaeological resources. Mitigation Measure CR-4, which requires appropriate treatment of unanticipated discoveries, would ensure that any resources encountered during maintenance are not significantly impacted. As a result, impacts during operation would be reduced to a less than significant level.

Impact 3.4-4: The geographic area of analysis of cumulative impacts for cultural resources includes the area bounded by those projects listed in Table 3-1 of the FEIR and generally corresponds to the portion of Orange County along the front of the Santiago Hills in the vicinity of the proposed project, as well as adjacent mountains and lowlands to the east and west, respectively. The projects listed in Table 3-1 include a range of project types, including residential and commercial development, and park construction and improvements, that could contain cultural resources. Of particular note is the proposed Gateway Community Park, which is to the west and directly adjacent to the project. Cumulative impacts to cultural resources could occur if other related projects, in conjunction with the proposed project, had or would have impacts on cultural resources that, when considered together, would be significant.

Construction and operation of the proposed project, in combination with other projects in the area, has the potential to contribute to a cumulatively significant cultural resources impact due to the potential loss of historical and archaeological resources unique to the region. A total of nine resources were identified within the proposed project site as a result of the cultural resources assessment, including six archaeological resources and three historic period-built resources. However, these resources were either found ineligible for listing in the California Register or will be avoided by project construction and operation. While there is potential to encounter unknown resources during ground-disturbing activities, mitigation measures are included in the FEIR to reduce potentially significant project impacts to both known and unknown cultural resources during construction, which would reduce the project's incremental contribution cumulative impacts. Mitigation Measure CR-1 requires flagging and avoidance of the two unevaluated resources. Mitigation Measures CR-2 requires worker sensitivity training prior to the start of construction. Mitigation Measures CR-3 and CR-4 require archaeological and Native American monitoring and treatment of unanticipated discoveries of cultural resources, respectively. Implementation of these four mitigation measures would reduce potential impacts to historical and archaeological resources to a less than significant level. Although the proposed project's construction has the potential to disturb human remains, this potential is low, and state laws dictate appropriate treatment of any unearthened human remains. As such, there will be a less than significant impact to human remains.

With implementation of Mitigation Measures CR-1 through CR-4 as described above, the proposed project would not result in significant impacts to cultural resources. Given the required mitigation for the proposed project, and required adherence to state and local laws for other projects in the cumulative region, cumulative impacts to cultural resources would be less than significant.

MITIGATION MEASURES: CR-1, CR-2, CR-3, and CR-4.

## **E. Energy**

**POTENTIAL EFFECTS:** Potential effects examined included the potential to: result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources [Impact 3.5-1]; conflict with or obstruct a state or local plan for renewable energy or energy efficiency [Impact 3.5-2]; and the potential to result in cumulative impacts to energy [Impact 3.5-3].

**FINDINGS:** Impacts 3.5-1, 3.5-2, and 3.5-3 will be less than significant, requiring no mitigation. Because no significant environmental effects would occur related to these impacts if the project is approved or carried out, no findings are required.

## **F. Geology and Soils**

**POTENTIAL EFFECTS:** Potential effects examined included the potential to: directly or indirectly cause the risk of loss, injury, or death involving rupture of a known earthquake fault zone [Impact 3.6-1a], strong seismic ground shaking [Impact 3.6-1b], or seismic related ground failure, including liquefaction [Impact 3.6-1c]; result in substantial soil erosion or the loss of topsoil [Impact 3.6-2]; be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse [Impact 3.6-3]; be located on expansive soil creating substantial direct or indirect risks to life or property [Impact 3.6-4]; have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water [Impact 3.6-5]; directly or indirectly destroy a unique paleontological resource or site or unique geologic feature [Impact 3.6-6]; and the potential to result in cumulative impacts to geology, soils, and paleontological resources [Impact 3.6-7].

**FINDINGS:** Adherence to Mitigation Measures GEO-1 through GEO-4 listed in the FEIR will reduce Impacts 3.6-6 and 3.6-7 to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

Impacts 3.6-1a, 3.6-1b, 3.6-1c, 3.6-2, 3.6-3, and 3.6-4 will be less than significant, requiring no mitigation. Impact 3.6-5 will not occur. Because no significant environmental effects would occur related to these impacts if the project is approved or carried out, no findings are required.

### **FACTS IN SUPPORT OF THE FINDINGS:**

Impact 3.6-6: The Silverado and Sespe/Vaqueros Formations and the older Quaternary Alluvium located onsite at Syphon Reservoir have a moderate to high paleontological sensitivity. Excavation in any of these formations may expose significant vertebrate fossils, and impacts to such fossils could constitute a significant impact on the environment. Mitigation Measures GEO-1 through GEO-4 would ensure that impacts to paleontological resources are reduced to less than significant levels. Once constructed, no new materials would be disturbed, resulting in no impact during operations.

Impact 3.6-7: Significant cumulative impacts related to geology and soils could occur if the incremental impacts of the proposed project combined with the incremental impacts of one or more of the cumulative projects identified in Table 3-1 of the FEIR to substantially increase risk that people or the environment would be exposed to geologic hazards or affect paleontological

resources or unique geologic features. The only cumulative projects that could be geographically adjacent or overlap components of the proposed project would be cumulative projects Number 3, Gateway Community Park, and Number 9, Truck Route Roadway Rehabilitation, shown on Figure 3-1. Cumulative project Number 3 would involve the construction of a new community park adjacent to the north side of the proposed project. Cumulative project Number 9 would involve the rehabilitation and paving of streets including Portola Parkway just west of the proposed project.

The local project area does have geologic units that have paleontological resources. The proposed project and local cumulative projects that excavate down to the Silverado and Sespe/Vaqueros Formations and the older Quaternary Alluvium may encounter paleontological resources. To mitigate for this potential impact, the proposed project includes the implementation of Mitigation Measures GEO-1 through GEO-4. Cumulative projects that would encounter these geologic units would also be required to implement similar mitigation measures. With implementation of these mitigation measures, impacts to the proposed project's contribution to cumulative effects would not be cumulatively considerable, and this impact would be less than significant with mitigation.

MITIGATION MEASURES: GEO-1, GEO-2, GEO-3, and GEO-4.

### **G. Greenhouse Gas Emissions**

POTENTIAL EFFECTS: Potential effects examined included the potential to: generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment [Impact 3.7-1]; conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases [Impact 3.7-2]; and the potential result in cumulative impacts regarding greenhouse gas emissions [Impact 3.7-3].

FINDINGS: Impacts 3.7-1, 3.7-2, and 3.7-3 will be less than significant, requiring no mitigation. Because no significant environmental effects would occur related to these impacts if the project is approved or carried out, no findings are required.

### **H. Hazards and Hazardous Materials**

POTENTIAL EFFECTS: Potential effects examined included the potential to: create a significant hazard to the public or the environment through the routine transport, use, disposal, or the accidental release of hazardous materials [Impact 3.8-1]; emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school [Impact 3.8-2]; be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would not create a significant hazard to the public or the environment [Impact 3.8-3]; be located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, and result in a safety hazard or excessive noise for people residing or working in the project area [Impact 3.8-4]; impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan [Impact 3.8-5]; expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires [Impact 3.8-6]; and the potential to result in cumulative short-term and long-term impacts to hazards, hazardous materials, and wildfires [Impact 3.8-7].

FINDINGS: Adherence to Mitigation Measure TRA-1 listed in the FEIR will reduce Impact 3.8-5 to less than significant, adherence to Mitigation Measure WDF-1 will reduce Impact 3.8-6 to less than significant, and adherence to Mitigation Measures TRA-1 and WDF-1 will reduce Impact 3.8-7 to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

Impacts 3.8-1 and 3.8-2 will be less than significant, requiring no mitigation. Impacts 3.8-3 and 3.8-4 will not occur. Because no significant environmental effects would occur related to these impacts if the project is approved or carried out, no findings are required.

FACTS IN SUPPORT OF THE FINDINGS:

Impact 3.8-5: The Evacuation Plan for the City of Irvine indicates the proposed project site is bounded by two evacuation routes: Portola Parkway to the west and SR-133 to the southeast. Construction of the proposed project involves intersection improvements at the Portola Parkway/Sand Canyon Avenue intersection. All other project construction would be located onsite and not on public rights-of-ways. The proposed project would modify the existing intersection and associated traffic lights to allow construction access through the intersection directly into the proposed project site. Cross walks and associated pedestrian signals would also be modified to facilitate safe pedestrian crossing in all directions. All proposed modifications would be implemented in accordance with the City of Irvine requirements, including traffic control to ensure emergency access is maintained on both rights-of-ways. The intersection modification would not involve closure of any roadways; however, temporary lane closures could be required, for example to allow for restriping of lanes or creating the curb cut and entrance to the proposed access road. With implementation of a Traffic Control Plan as required by Mitigation Measure TRA-1, impacts to circulation system during the initial intersection improvement phase of the proposed project would be reduced to a less than significant level, and project construction would not impair or physically interfere with emergency response teams or an evacuation plan.

Operation and maintenance activities for the proposed project would be substantially similar to current conditions respective to emergency response and evacuation. No operation-related activities would occur within surrounding rights-of-ways or along evacuation routes. Once the proposed improvements at the Portola Parkway/Sand Canyon Avenue intersection are complete, site access for operation and maintenance vehicles would be through the intersection into IRWD property. The proposed project would not impair implementation of or physically interfere with the City of Irvine Evacuation Plan. As a result, no impact would occur.

As discussed in Section 3.8.1 of the FEIR, all dams under DSOD jurisdiction are required to have an Emergency Action Plan (EAP) to establish the response in the event of a failure of the dam. The Syphon Reservoir EAP describes the existing dam and reservoir; identifies notification, communication, and response responsibilities of IRWD and impacted jurisdictions/public safety agencies; surveillance, monitoring, and response procedures; estimated inundation depths and arrival times; and training procedures. Implementation of the proposed project would require an update to the Syphon Reservoir EAP and approval of the updated EAP by DSOD.

Impact 3.8-6: The proposed project site is located within a State Responsibility Area, Moderate Fire Hazard Severity Zone (FHSZ) and is adjacent to areas mapped as a Very High FHSZ. Brush and grassland habitats within the proposed project site are highly flammable. The primary

fire hazards from project construction would involve the use of vehicles and equipment, heat or sparks from which could ignite dry vegetation and cause a fire. Therefore, the increase in sources of potential ignition associated with project construction could exacerbate the risk of wildfire at the project site and in the surrounding area. Project construction could increase the risk of exposure of people or structures to significant loss, injury, or death involving wildland fires, which could result in a potentially significant impact. All personnel on the proposed project site would have to comply with Public Resources Code (PRC) sections 4427, 4428, 4431, and 4442, which include regulations relating to the handling of combustible fuels and equipment that can exacerbate fire risks. During construction, strict adherence to these PRC sections would ensure that contractors are responsible for all monitoring and safety measures ensuring that any risk to exacerbate wildfire would be reduced. Additionally, all construction must comply with fire protection and prevention requirements specified by the California Code of Regulations (CCR) and Cal/OSHA. This includes various measures such as easy accessibility of firefighting equipment, proper storage of combustible liquids, no smoking in service and refueling areas, and worker training for firefighter extinguisher use. Furthermore, implementation of Mitigation Measure WDF-1 would be required to ensure fire hazard reduction measures are implemented during proposed project activities to further reduce the potential for wildfire impacts on project workers. As a result, the potential impact would be reduced to a less than significant level with mitigation.

The reduction of flammable surface area within the Moderate FHSZ could prevent or reduce uncontrolled spread of wildfire. As the reservoir is drawn down in the summer months to satisfy recycled water needs in IRWD's service area, the surface area susceptible to wildfire risk would increase. However, the flammable vegetation removed during construction would continue to be absent within the limits of the highwater elevation, reducing the risk of wildfire. Operation-related activities would involve a limited number of maintenance trucks for inspections and material delivery. These trucks would be limited to established access roads and would have a low potential of producing sparks, fire, or flame that could result in uncontrolled spread of wildfire. Nevertheless, due to the site topography and wildfire risk, operators of the project site would comply with PRC sections 4427, 4428, 4431, and 4442, which include regulations relating to the handling of combustible fuels and equipment that can exacerbate fire risks, and IRWD would require implementation of Mitigation Measure WDF-1. As a result, impacts would be reduced to a less than significant level with mitigation.

Impact 3.8-7: Significant cumulative impacts related to hazards and hazardous materials could occur if the incremental impacts of the proposed project combined with the incremental impacts of one or more cumulative projects identified in Table 3-1 of the FEIR to substantially increase the risk of exposure to hazards and hazardous materials and wildfire. The only cumulative projects that could be geographically adjacent or overlap components of the proposed project would be cumulative projects Number 3, Gateway Community Park, and Number 9, Truck Route Roadway Rehabilitation, shown on Figure 3-1, Cumulative Project Locations. Cumulative project Number 3 would involve the construction of a new community park adjacent to the north side of the proposed project. Cumulative project Number 9 would involve the rehabilitation and paving of streets including Portola Parkway just west of the proposed project.

The construction of the cumulative projects could require the temporary closure of traffic lanes, which could impact emergency access. Similar to the proposed project, the cumulative projects would be required to provide appropriate traffic control and emergency access similar to Mitigation Measure TRA-1. Implementation of traffic control plans would reduce the cumulatively considerable contribution to a cumulative impact relative to emergency access to a less than significant level.

Cumulative projects in areas susceptible to wildfires would also be required to implement wildfire prevention measures to prevent wildfire, such as the proposed project's Mitigation Measure WDF-1, which would require all spark arrestors on construction equipment to be in good working order, and all vehicles and crews to have access to functional fire extinguishers at all times. With compliance with existing regulations and implementation of mitigation measures to require spark arrestors and fire extinguishers, the combined effects of the proposed project and cumulative projects would not result in a cumulatively considerable effect, and impacts would be less than significant relative to wildfires.

MITIGATION MEASURES: TRA-1 and WDF-1.

### **I. Hydrology and Water Quality**

POTENTIAL EFFECTS: Potential effects examined included the potential to: violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality [Impact 3.9-1]; substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin [Impact 3.9-2]; substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation onsite or offsite; or substantially increase the rate or amount of surface runoff in a manner which would result in flooding onsite or offsite; or create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or impede or redirect flood flows [Impact 3.9-3]; result in a flood hazard, tsunami, or seiche, and risk release of pollutants due to project inundation [Impact 3.9-4]; conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan [Impact 3.9-5]; and have the potential to result in cumulative impacts to hydrology and water quality [Impact 3.9-6].

FINDINGS: Impacts 3.9-1, 3.9-2, 3.9-3, 3.9-4, 3.9-5, and 3.9-6 will be less than significant, requiring no mitigation. Because no significant environmental effects would occur related to these impacts if the project is approved or carried out, no findings are required.

### **J. Noise**

POTENTIAL EFFECTS: Potential effects examined included the potential to: generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies [Impact 3.10-1]; generate excessive groundborne vibration or groundborne noise levels [Impact 3.10-2]; expose people residing or working in the project area to excessive noise levels within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport [Impact 3.10-3]; and the potential to result in cumulative impacts to noise and vibration [Impact 3.10-4].

FINDINGS: Impacts 3.10-1, 3.10-2, and 3.10-4 will be less than significant, requiring no mitigation. Impact 3.10-3 will not occur. Because no significant environmental effects would occur related to these impacts if the project is approved or carried out, no findings are required.

Although not required as mitigation, the FEIR included commitments for implementation of project design features during construction, at the request of the City of Irvine, to reduce noise levels at sensitive receptors.

## **K. Recreation**

POTENTIAL EFFECTS: Potential effects examined included the potential to: increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated [Impact 3.11-1]; require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment [Impact 3.11-2]; and the potential to result in cumulative impacts to recreation [Impact 3.11-3].

FINDINGS: Adherence to Mitigation Measures BIO-1 through BIO-6 and CR-1 through CR-4 listed in the FEIR will reduce Impact 3.11-2 to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

Impacts 3.11-1 and 3.11-3 will be less than significant, requiring no mitigation. Because no significant environmental effects would occur related to these impacts if the project is approved or carried out, no findings are required.

### FACTS IN SUPPORT OF THE FINDINGS:

Impact 3.11-2: Construction of the proposed project could involve implementation of a passive recreation trail in a manner that is compatible with the project site, as shown in Figure 3.11-1. Coordination and approval from regulatory agencies, including U.S. Fish and Wildlife Service (USFWS) and CDFW, would be required for onsite recreational components. A large portion of the proposed walking trail would follow the existing dirt access road along the Highline Canal in the south and southwest portions of the proposed project site. The proposed walking trail traverses through coastal sage scrub and disturbed coastal sage scrub communities. The existing Highline Canal would be backfilled for installation of the proposed walking trail. Construction of a trail would occur through grading and compacting of native material. No existing vegetation would be impacted by installation of a trail along existing roads or the Highline Canal. A potential trail extension may be installed east from the existing Highline Canal and would be located on ridges or other relatively gradual-sloped terrain. This area contains coastal sage scrub and disturbed coastal sage scrub communities. The potential impacts related to constructing and operating passive recreation facilities are evaluated throughout the FEIR, with notable impacts summarized below.

As described in Section 3.3 of the FEIR (Biological Resources), construction of the proposed project would result in impacts to special-status species and sensitive natural communities that would be potentially significant. In 2019, habitat areas immediately adjacent to the existing Highline Canal and associated dirt access road were surveyed for sensitive biological species occurrences. The surveys recorded three least Bell's vireo territories, three California gnatcatcher occurrences, and one yellow-breasted chat occurrence during 2019 surveys in the vicinity of the Highline Canal. Surveys conducted in the vicinity of the north-northwest areas of the project site, where the proposed trail would extend from the Highline Canal to an existing northern access road, observed one least Bell's vireo territory, one California gnatcatcher occurrence, and one yellow-breasted chat occurrence. Implementation of Mitigation Measure BIO-1 through BIO-5 would ensure that impacts to special-status species would be reduced to

less than significant levels; implementation of Mitigation Measure BIO-6 would reduce impacts to sensitive natural communities and riparian habitat to less than significant levels; and implementation of Mitigation Measures BIO-3 and BIO-5 would reduce impacts to wildlife movement and nursery sites to less than significant levels. The proposed project would not conflict with the provisions of the NCCP/HCP, or local policies and ordinances with implementation of Mitigation Measures BIO-1 and BIO-2. Final design would determine the appropriateness and location of the proposed walking trail on existing access roads and any other optional recreational facilities. Operation and maintenance of the proposed walking trail would be included in the Resource Management Plan required as part of Mitigation Measure BIO-5. Coordination and approval from regulatory agencies, including USFWS and CDFW, would be required for onsite recreational components. Impacts to biological resources during operation and maintenance activities related to the proposed walking trail could result in indirect impacts to special-status wildlife species and local wildlife movement. With implementation of Mitigation Measure BIO-5, impacts would be reduced to less than significant levels.

As described in Section 3.4 of the FEIR (Cultural Resources), construction of the proposed walking trail along the Highline Canal would occur in close proximity to a historic-period archaeological site. Although the archaeological site has not been evaluated for eligibility for listing in the California Register, impacts to potentially significant cultural resources as a result of construction of recreational facilities could be potentially significant. Implementation of Mitigation Measure CR-1 would result in avoidance of this resource, and Mitigation Measure CR-2 through CR-4 would ensure that construction activities are monitored and assessed for unanticipated discoveries. With implementation of Mitigation Measures CR-1 through CR-4, impacts would be reduced to less than significant levels. For operation of the proposed walking trail, implementation of Mitigation Measure CR-4 would ensure that any cultural resources encountered during maintenance of the proposed recreational facilities are not significantly impacted. Therefore, impacts would be less than significant with mitigation.

MITIGATION MEASURES: BIO-1, BIO-2, BIO-3, BIO-4, BIO-5, BIO-6, CR-1, CR-2, CR-3, and CR-4.

## **L. Transportation**

POTENTIAL EFFECTS: Potential effects examined included the potential to: conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities [Impact 3.12-1]; conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b) [Impact 3.12-2]; substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment) [Impact 3.12-3]; result in inadequate emergency access [Impact 3.12-4]; and the potential to result in cumulative impacts to transportation [Impact 3.12-5].

FINDINGS: Adherence to Mitigation Measure TRA-1 listed in the FEIR will reduce Impacts 3.12-1, 3.12-4, and 3.12-5 to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

Impacts 3.12-2 and 3.12-3 will be less than significant, requiring no mitigation. Because no significant environmental effects would occur related to these impacts if the project is approved or carried out, no findings are required.

FACTS IN SUPPORT OF THE FINDINGS:

Impact 3.12-1: Construction at the intersection of Sand Canyon Avenue/Portola Parkway would occur over approximately four to five months prior to the new proposed reservoir improvements and would require up to 42 daily vehicle trips. While the proposed intersection work would not involve closure of any roadways, temporary lane closures could create delays and/or detours for bikers and pedestrians traveling along the Portola Trail and for vehicles traveling through the intersection. To ensure that impacts related to the circulation system do not occur as a result of the proposed project, IRWD would implement Mitigation Measure TRA-1, which would require the preparation and implementation of a Traffic Control Plan. With implementation of Mitigation Measure TRA-1, impacts to the circulation system during the initial intersection improvement phase of the proposed project would be reduced to a less than significant level.

Construction of the remaining components of proposed project would increase the number of vehicles using local roadways on a daily basis and could affect performance of the circulation system. On any given work day, between 10 and 46 workers would be required onsite for construction of the proposed project. Peak construction trip generation would occur during construction of the new proposed dam, spillway and reservoir (up to 232 daily construction vehicle trips). Trip generation outside of this phase would be greatly reduced with approximately 30 daily to 104 daily trips being generated. Thus, during construction the number of daily round trips on local roadways would not be expected to exceed 232 total construction vehicle trips per day. Workers and haul/delivery trips are likely to use main arterial roadways with existing daily roadway volumes ranging from 16,000 average daily trips (ADT) to 25,000 ADT, such as Portola Parkway between Jeffrey Boulevard and Sand Canyon Avenue (19,000 ADT), Sand Canyon Avenue between Irvine Boulevard and Portola Parkway (16,000 ADT), and Irvine Boulevard between Jeffrey Road and Sand Canyon Avenue (25,000 ADT). Relative to the numbers of vehicles that travel on local roadways and freeways during weekdays, an additional 232 vehicle trips would represent a temporary increase of 1.2 percent in ADT on Portola Parkway, 1.5 percent on Sand Canyon Avenue, and 0.9 percent on Irvine Boulevard. Similarly, workers and haul/delivery trips are likely to use nearby freeways with daily freeway volumes ranging from 37,900 ADT to 46,700 ADT, such as SR-261 at Portola Parkway on- and off-ramps (37,900 ADT), SR-241 at the SR-133 junction (39,200 ADT), and SR-133 at the SR-241 junction (46,700 ADT). An additional 232 vehicle trips would represent a temporary increase of 0.6 percent in ADT on SR-261, 0.5 percent on SR-241, and 0.5 percent on SR-133. Further, the above estimates and calculated percentages assume that all construction vehicles would use each roadway/freeway. In reality, trips would be somewhat dispersed depending on which routes are actually followed by trucks and employees during construction. Therefore, impacts would be less than significant on local circulation system performance from construction-related trips.

Operation of the new proposed reservoir would involve daily safety and maintenance checks of the site, similar to existing conditions. As a result, operation of the project would not introduce new permanent trips to the project site. Maintenance of the proposed wetland/riparian area would require operational vehicle trips during the first five years of 12 to 24 round trips for 30 to 40 days per year. The increased traffic volume that would result from operating the proposed project would have a nominal impact on local circulation system performance. As a result, impacts would be considered a less than significant impact on circulation system performance.

Impact 3.12-4: Proposed project modifications within the intersection of Sand Canyon Avenue/Portola Parkway would include construction of traffic signals, lane striping, and signage to accommodate the northern access road. Cross walks and associated pedestrian signals would also be modified to facilitate safe pedestrian crossing in both directions. The proposed intersection improvements would not require closure of either Sand Canyon Avenue or Portola

Parkway; however, temporary lane closures may be required. The proposed intersection improvements and construction of the access road would be completed first, prior to other construction phases, and construction activity would occur for approximately 4 to 5 months, weather permitting. It is anticipated that up to 42 total vehicle trips per day would occur to and from the project site during peak construction activity related to the access road and intersection. While the proposed intersection work described above would not involve closure of any roadways, temporary lane closures could interfere with emergency access. To ensure that impacts related to emergency access do not occur as a result of the proposed project, IRWD would implement Mitigation Measure TRA-1, which would require IRWD to coordinate with emergency responders, including fire departments, police departments, and ambulances that have jurisdiction in the proposed project area. The mitigation measure also requires that IRWD notify emergency responders of any partial or full lane closures at least 30 days prior to impacts. With implementation of Mitigation Measure TRA-1, impacts would be reduced to a less than significant level.

As described above in Impact 3.12-1, the proposed project would not include operation and maintenance activities that would generate a substantial amount of vehicle trips that would impact the surrounding circulation system. Due to the relatively limited amount of vehicle trips associated with operation and maintenance of the proposed project facilities, it is reasonable to assume these trips would not interfere with emergency access. Additionally, at completion of the proposed modifications to the Portola Parkway/Sand Canyon Avenue intersection, the proposed project would result in an improvement to emergency access to the proposed project site compared to existing conditions. Therefore, the project would provide a benefit to onsite emergency access, and as a result, no impacts related to inadequate emergency access would occur.

Impact 3.12-5: The projects to be considered in the analysis of cumulative projects are listed in Table 3-1 of the FEIR and illustrated on Figure 3-1. Cumulative projects 4, 6, 7, 18 and 19 have the potential to temporarily affect transportation in the vicinity of the proposed project. Some of the larger developments, including Cumulative Projects 4, 6 and 7 which are ongoing residential developments, would permanently affect traffic in the area due to a greater number of people living in the area and traveling to/from the residences in their cars. Construction of the proposed project, along with the identified related projects in the geographic scope, could affect traffic and circulation in the region. These projects could be constructed simultaneously in areas proximate to or overlapping geographically with the proposed project. The proposed project has the potential to result in a cumulative impact to traffic due to the proposed intersection modification and the number of construction-related vehicle traffic on roadways in proximity to the proposed project site. As required by Mitigation Measure TRA-1, IRWD would implement a Traffic Control Plan for the proposed project as necessary to reduce construction-related effects of the project to less than significant levels. The Traffic Control Plan would take into consideration the effects of other construction activities occurring simultaneously in the same geographic area. Mitigation Measure TRA-1 would require IRWD to coordinate all construction activities with emergency service providers to ensure adequate access to emergency services is maintained during construction. As a result, the proposed project's incremental contribution to traffic and transportation would not be cumulatively considerable.

The proposed project would only contribute to local traffic during the construction phase of the project, as operation- and maintenance-related traffic would be minimal as explained above. Therefore, the proposed project's contribution to cumulative transportation and traffic impacts would not be cumulatively considerable and would be considered less than significant.

MITIGATION MEASURES: TRA-1.

### **M. Tribal Cultural Resources**

POTENTIAL EFFECTS: Potential effects examined included the potential to: cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k) [Impact 3.13-1a]; cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe [Impact 3.13-1b]; and the potential to result in cumulative impacts to tribal cultural resources [Impact 3.13-2].

FINDINGS: Adherence to Mitigation Measures CR-3 and CR-4 listed in the FEIR will reduce Impacts 3.13-1a, 3.13-1b, and 3.13-2 to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

#### FACTS IN SUPPORT OF THE FINDINGS:

Impact 3.13-1a: A records search at the South Central Coastal Information Center (SCCIC), an archaeological field survey, a Sacred Lands File (SLF) search at the Native American Heritage Commission (NAHC), and consultation with the Gabrieleño Band of Mission Indians – Kizh Nation, conducted pursuant to AB 52, did not identify any tribal cultural resources that are listed in or eligible for listing in the California Register, or in a local register of historical resources as defined in PRC Section 5020.1(k). However, through consultation, the Gabrieleño Band of Mission Indians – Kizh Nation indicated that the area is sensitive for resources important to the tribe and requested Native American monitoring of ground disturbing activities. Archaeological and Native American monitoring are included as Mitigation Measure CR-3. With implementation of Mitigation Measure CR-3, potential impacts to tribal cultural resources would be reduced to a less than significant level during project construction and operation.

Impact 3.13-1b: As indicated above, a records search at the SCCIC, an archaeological field survey, a Sacred Lands File search at the NAHC, and consultation with the Gabrieleño Band of Mission Indians – Kizh Nation, conducted pursuant to AB 52, did not identify any tribal cultural resources determined by a lead agency to be significant as outlined in PRC Section 50204.1. However, through consultation, the Gabrieleño Band of Mission Indians – Kizh Nation indicated that the area is sensitive for resources important to the tribe and requested Native American monitoring of ground disturbing activities. Archaeological and Native American monitoring are included as Mitigation Measure CR-3. With implementation of Mitigation Measure CR-3, potentially significant impacts to tribal cultural resources would be reduced to a less than significant level during project construction and operation.

Impact 3.13-2: The projects listed in Table 3-1 of the FEIR include a range of project types, including residential and commercial development, and park construction and improvements, that could contain tribal cultural resources. Of particular note is the proposed Gateway Community Park, which is to the west and directly adjacent to the project. Cumulative impacts to tribal cultural resources could occur if other related projects, in conjunction with the proposed project, had or would have impacts on cultural resources that, when considered together, could be significant. No tribal cultural resources were identified as part of IRWD's government-to-government notification and consultation efforts with interested Native American groups conducted pursuant to AB 52. Given that no tribal cultural resources have been identified within or immediately adjacent to the project site, the proposed project would not cause a substantial adverse change in the significance of a known tribal cultural resource. However, project related ground-disturbing activities have the potential to encounter previously unknown archaeological resources, some of which may have significance to Native American tribes. Mitigation measures provided in Section 3.4, *Cultural Resources*, which include Mitigation Measure CR-3 for archaeological and Native American monitoring, and Mitigation Measure CR-4 for appropriate treatment of unanticipated discoveries, will ensure that impacts to tribal cultural resources, if encountered, would be less than significant. Given the required mitigation for the current project, and required adherence to state and local laws for other projects in the cumulative region, cumulative impacts to tribal cultural resources would be less than significant.

MITIGATION MEASURES: CR-3 and CR-4.

#### **N. Wildfire**

POTENTIAL EFFECTS: Potential effects examined included the potential to: substantially impair an adopted emergency response plan or emergency evacuation plan [Impact 3.14-1]; due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire [Impact 3.14-2]; require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment [Impact 3.14-3]; expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes [Impact 3.14-4]; and result in cumulative impacts to wildfire [Impact 3.14-5].

FINDINGS: Adherence to Mitigation Measure TRA-1 listed in the FEIR will reduce Impact 3.14-1 to less than significant, and adherence to Mitigation Measure WDF-1 will reduce Impacts 3.14-2, 3.14-3, and 3.14-5 to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

Impact 3.14-4 will be less than significant, requiring no mitigation. Because no significant environmental effects would occur related to this impact if the project is approved or carried out, no findings are required.

#### FACTS IN SUPPORT OF THE FINDINGS:

Impact 3.14-1: The proposed project site is located within a State Responsibility Area, Moderate Fire Hazard Severity Zone. The Evacuation Plan for the City of Irvine indicates the proposed project site is bounded by two evacuation routes: Portola Parkway to the west and SR-133 to the southeast. Construction of the proposed project involves intersection improvements at the

Portola Parkway/Sand Canyon Avenue intersection. All other project construction would be located onsite and not on public rights-of-ways. All proposed modifications would be implemented in accordance with City of Irvine requirements, including traffic control to ensure emergency access is maintained on both rights-of-ways. The proposed intersection modification would not involve closure of any roadways; however, temporary lane closures could be required, for example to allow for restriping of lanes or creating the curb cut and entrance to the proposed access road. To ensure that impacts related to the circulation system do not occur as a result of the proposed project, IRWD would implement Mitigation Measure TRA-1 which would require the preparation and implementation of a Traffic Control Plan. The Traffic Control Plan would be coordinated with the City of Irvine, as necessary, as well as with emergency responders, which include fire departments, police departments, and ambulances that have jurisdiction within the proposed project area. Therefore, with implementation of Mitigation Measure TRA-1, impacts to the circulation system during the initial intersection improvement phase of the project would be reduced to a less than significant level, and project construction would not impair or physically interfere with emergency response teams or an evacuation plan. Impacts would be less than significant with mitigation.

Operation and maintenance activities for the proposed project would be substantially similar to current conditions respective to emergency response and evacuation. No operation-related activities would occur within surrounding rights-of-ways or along evacuation routes. Once the proposed intersection improvements at Portola Parkway/Sand Canyon Avenue are complete, site access for operation and maintenance vehicles would be through the intersection onto IRWD property. The proposed project would not result in impacts on emergency response plans or emergency evacuation plans. As a result, no impact would occur.

Impact 3.14-2: The proposed project site is located within a State Responsibility Area, Moderate Fire Hazard Severity Zone. The proposed project site includes slopes surrounding the existing reservoir that are susceptible to prevailing winds. Brush and grassland habitats within the proposed project site are highly flammable. During construction, equipment and on-site diesel fuel could pose a risk to wildfire with possible ignition sources such as internal combustion engines, gasoline-powered tools, and equipment that could produce a spark, fire, or flame. The use of spark-producing construction machinery within fire risk areas such as the proposed project site could expose temporary project workers and contractors to pollutant concentrations from a wildfire or the uncontrolled spread of wildfire, resulting in a potentially significant impact. However, all personnel on the project site would have to comply with PRC sections 4427, 4428, 4431, and 4442, which include regulations relating to the handling of combustible fuels and equipment that can exacerbate fire risks. During construction, strict adherence to these PRC sections would ensure that contractors are responsible for all monitoring and safety measures ensuring that any risk to exacerbate wildfire would be reduced. Additionally, all construction must comply with fire protection and prevention requirements specified by the California Code of Regulations (CCR) and Cal/OSHA. This includes various measures such as easy accessibility of firefighting equipment, proper storage of combustible liquids, no smoking in service and refueling areas, and worker training for firefighter extinguisher use. Furthermore, implementation of Mitigation Measure WDF-1 would be required to ensure fire hazard reduction measures are implemented during proposed project activities to further reduce the potential for wildfire impacts on project workers. As a result, impacts would be reduced to a less than significant level with mitigation.

As discussed above, the proposed project is located within a State Responsibility Area, Moderate Fire Hazard Severity Zone, and includes slopes susceptible to prevailing winds. Brush and grassland habitats within the project site are highly flammable. The proposed project would

involve expansion of the existing reservoir water storage capacity and water levels would effectively create more inundated area and fewer steep slopes susceptible to prevailing winds within the project area in winter and spring months when the reservoir is full. The reduction of flammable surface area within the Moderate Fire Hazard Severity Zone could prevent or reduce uncontrolled spread of wildfire. As the reservoir is drawn down in the summer months to satisfy recycled water needs in IRWD's service area, the surface area susceptible to wildfire risk would increase. However, the flammable vegetation removed during construction would continue to be absent within the limits of the high- water elevation, reducing the risk of wildfire. Operation-related activities would involve a limited number of maintenance trucks for inspections and material delivery. These trucks would be limited to established access roads and would have a low potential of producing sparks, fire, or flame, that could result in uncontrolled spread of wildfire. Nevertheless, due to the site topography and wildfire risk, operators of the proposed project site would comply with PRC sections 4427, 4428, 4431, and 4442, which include regulations relating to the handling of combustible fuels and equipment that can exacerbate fire risks, and IRWD would require implementation of Mitigation Measure WDF-1. As a result, impacts would be reduced to a less than significant level with mitigation.

Impact 3.14-3: The proposed project includes construction and operation of new proposed access roads and pipelines to support the expanded dam and reservoir. This new infrastructure does not pose additional risk to exacerbation of wildfires other than what is discussed in Impact 3.14-2 above. New electrical power lines, which could exacerbate fire risk, would not be installed as a result of the proposed project. All infrastructure installed as part of the project during operation and maintenance will adhere to CCR Title 24, the CBC, and County of Orange Safety Element, and IRWD would be required to implement fire reduction measures as outlined in Mitigation Measure WDF-1. Adherence to applicable laws and regulations and implementation of Mitigation Measure WDF-1 would reduce impacts to a less than significant level.

Impact 3.14-5: As described in Table 3-1 of the FEIR, there are numerous projects that would require vehicles that utilize combustible materials to complete construction, similar to the proposed project. Several of these projects are Capital Improvement Projects from the City of Irvine Department of Public Works. Projects 3, 9, 10, and 11 are within close proximity to the proposed project. Other projects further away as identified on Figure 3-1 that occur at the same time include Project 14 which involves the construction of a freeway interchange, Projects 17 and 18, which are IRWD pump stations, and Projects 4, 6, and 7 which are residential projects that are currently under construction and could still be in construction when the proposed project begin construction in Fall 2022. Significant cumulative impacts related to wildfire could occur if the incremental impacts of the project combined with the incremental impacts of one or more cumulative projects identified in Table 3-1, to substantially increase risk that people or the environment would be exposed to wildfire.

Cumulative projects would be subject to the same regulatory requirements discussed for the proposed project, including the adherence to emergency planning. That is, cumulative projects involving activities that could exacerbate wildfire risk (such as combustible fuel used for construction and during maintenance), impair emergency plans, or expose people to downstream post-fire landslides also would be required to adhere to the same established regulatory standards. While it is possible that the proposed project and cumulative projects could result in increased wildfire risk at the same time and in overlapping locations, the responsible party associated with each project would be required to control the safety of their own site conditions to the same established regulatory standards. The proposed project would be required to implement Mitigation Measure WDF-1 as discussed above that would further

mitigate cumulative impacts. For the above reasons, the combined effects of the construction of the proposed project in combination with cumulative projects would not have a cumulatively considerable contribution to a cumulative impact. Other cumulative construction projects would be required to provide appropriate traffic control, emergency access, and fire safety for their projects. No significant cumulative impact related to wildfire would occur.

MITIGATION MEASURES: TRA-1 and WDF-1.

## **O. Environmental Justice**

POTENTIAL EFFECTS: Potential effects examined include the potential of the proposed project to affect the health or environment of minority or low-income populations disproportionately.

FINDINGS: Adherence to Mitigation Measure AIR-1 listed in the FEIR would reduce project impacts to criteria pollutants that could disproportionately affect low income or minority populations to less than significant, and adherence to Mitigation Measure TRA-1 would reduce project impacts to traffic and transportation that could disproportionately affect low income or minority populations to less than significant (Finding 1). As a result, changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.

The proposed project would not result in impacts to other environmental topics that would have the potential to affect the health or environment of low-income populations disproportionately. Because no significant environmental effects would occur related to these impacts if the project is approved or carried out, no findings are required.

### FACTS IN SUPPORT OF THE FINDINGS:

The proposed project has the potential for disproportionate impacts on minority and low-income populations during construction. As explained within Sections 3.2 and 3.12 of the FEIR, short-term temporary impacts related to air quality and traffic during construction of the proposed project could occur.

The primary construction related environmental impacts that could have the potential to exacerbate existing disproportionate impacts on minority and low-income populations include emissions of pollutant concentrations emitted near sensitive receptors. The only sensitive receptors that would be exposed to significant increases in pollutant concentrations (NOx) are located within Census Tract 524.26 that covers the Stonegate community within the City of Irvine and areas within unincorporated Orange County surrounding the project site. As shown in Tables 4-1 and 4-2 of the FEIR, Census Tract 524.26 is neither a minority nor low-income community, and can be dismissed from further environmental analysis. All other criteria pollutant air quality impacts are based on a regional scale within the South Coast Air Quality Management District (SCAQMD) and thus do not differentiate between census tracts in IRWD's service area, either low-income/minority or not. Even still, both regional and localized emissions for NOx would be mitigated to less than significant levels with implementation of Mitigation Measure AIR-1. As a result, while the proposed project would result in an increase in criteria pollutants for NOx that would be mitigated to less than significant levels, the sensitive receptors close enough to the project to be impacted by localized emissions are not within low-income/minority areas, and would therefore not be disproportionately impacted.

As discussed in Section 3.12 of the FEIR (Transportation), truck trips during construction would not result in a significant increase in traffic and would be, for the most part, concentrated on Portola Parkway between Jeffrey Boulevard and Sand Canyon Avenue, Sand Canyon Avenue between Irvine Boulevard and Portola Parkway, and Irvine Boulevard between Jeffrey Road and Sand Canyon Avenue, as well as SR-261, SR-241, and SR-133. Aside from the State Routes, the entirety of this area is located within Census Tract 524.26, which covers the Stonegate community within the City of Irvine and areas within unincorporated Orange County surrounding the project site. This tract is neither a minority nor low-income community, and can be dismissed from further environmental analysis. SR-241 also only traverses Census Tract 524.26 and likewise can be dismissed from further environmental analysis. SR-133 traverses Census Tracts 524.04, 525.18, 626.04, and 626.21. SR-261 traverses Census Tracts 524.20, 252.25, 525.27, and 755.15. None of the Census Tracts that are traversed by SR-133 and SR-261 are considered low income per the discussion above. Additionally, the Census Tracts that are traversed by SR-133 are not considered minority populations. All the census tracts that SR-261 traverses are considered minority populations. To ensure the project does not cause significant impacts, a Traffic Control Plan would be required (see Mitigation Measure TRA-1). As such, the proposed project would not create impacts to traffic and transportation that would disproportionately affect low income or minority populations.

MITIGATION MEASURES: AIR-1 and TRA-1.

#### **IV. Findings Regarding Alternatives to the Project**

CEQA requires an EIR to describe a reasonable range of alternatives to the project or to the location of the project, which could feasibly attain the project objectives and to evaluate the comparative merits of the alternatives. Only alternatives that meet most of the project objectives, are feasible, and that would avoid or substantially reduce at least one of the significant impacts of the project, need be considered. IRWD has evaluated a reasonable range of alternatives to the proposed project, including looking at alternative locations to the proposed project, use of aboveground storage tanks, a new ocean outfall, and expansion of the Orange County Water District Green Acres Project. The project alternatives were rejected. In addition to the No Project Alternative required by CEQA, the FEIR provides a full assessment of the Sand Canyon Reservoir Alternative and Upper Rattlesnake Reservoir Alternative, as well as a Reduced Project Alternative.

##### **A. Alternatives Considered but Rejected**

CEQA Guidelines Section 15126.6(f)(2) provides guidance regarding consideration of one or more alternative location(s) for a proposed project, stating that putting the project in another location should be considered if doing so would allow significant effects of the project to be avoided or substantially lessened. Only locations that would avoid or substantially lessen any of the significant effects of the proposed project need to be considered for inclusion in the EIR. If no feasible alternative locations exist, the EIR must disclose the reasons for this conclusion. Among the factors that may be considered when addressing the feasibility of an alternative site is suitability, economic viability, availability of infrastructure, general plan consistency, and whether the proponent can reasonably acquire, control, or otherwise have access to the alternative site. The project alternatives that were rejected are described below.

*Alternative Locations – Reservoir Expansion:* IRWD currently operates three recycled water storage reservoirs within its service area other than Syphon Reservoir: Sand Canyon,

Rattlesnake, and San Joaquin. Over the last 25 years, IRWD has conducted multiple studies to investigate the potential for expanding its recycled water reservoirs to augment recycled water storage capacity. Sand Canyon Reservoir and Rattlesnake Reservoir were determined to be feasible alternative locations for the proposed project, and are discussed further below (see Section IV.B and IV.C). Peter's Canyon Reservoir, which is owned by the County of Orange and managed by OC parks, was rejected from further consideration in the FEIR as an alternative site due to feasibility constraints (maintaining the existing flood pool footprint in the Peter's Canyon Regional Park boundaries) and environmental factors. Additionally, given that the expansion of Peter's Canyon Reservoir would result in a smaller incremental increase in storage when compared to the proposed expansion at Syphon Reservoir, the site was not considered to be a feasible project alternative and is rejected from further consideration in the FEIR. The San Joaquin Reservoir alternative site was rejected from further consideration in the FEIR due to feasibility constraints (the reservoir is land-locked by development on all sides) and environmental factors (stability and landslide concerns).

*Alternative Locations – New Reservoir:* IRWD also considered installation of a new 6,000 AF reservoir at Round Canyon as one of several options for increased storage capacity in 1996 (Woodward-Clyde 1996). The reservoir site is located just southeast of the Frank Bowerman Landfill and north of the Foothill Transportation Corridor 241. Site constraints at Round Canyon include unfavorable bedding dips and slope instability, with landslides identified in the upper reaches of the reservoir site (Woodward-Clyde 1996). Environmental factors include aesthetic impacts and likely destruction of a known archaeological site. Due to the site constraints and known greater environmental impacts due to construction and operation of a new reservoir at Round Canyon versus an expansion of the existing reservoir at Syphon Reservoir, this alternative is not considered to be a feasible project alternative and is rejected from further consideration in the FEIR.

*Aboveground Storage Tanks.* In addition to reservoir storage, aboveground storage tanks can be used to store recycled water for future use. Given the scale of the storage expansion of the proposed project (4,500 AF), approximately 1.47 billion gallons of aboveground storage would need to be secured in order to replace the increase of recycled water stored in a reservoir. An average storage tank holds 8 million-gallons and is approximately 135 feet in diameter. If the reservoir storage were to be converted to aboveground storage tanks, approximately 175 8-million-gallon storage tanks would need to be constructed within IRWD's service area. This scale of facility construction and operation would be infeasible for IRWD to implement given open space constraints in the service area and pressure zone limitations. Additionally, constructing 175 storage tanks would not be economically feasible for IRWD. As a result, replacement of reservoir storage with aboveground storage tanks is not considered to be a feasible project alternative and is rejected from further consideration in the FEIR.

*New Ocean Outfall.* A few small areas in IRWD's service area are not served by either the Michelson WRP or the Los Alisos WRP sewage collection and treatment systems. A small percentage of sewage generated within IRWD's service area is currently collected by neighboring OCSD or Santa Margarita Water District where these agencies' facilities treat the sewage for subsequent reuse. On a volume basis, IRWD currently sends approximately 7,300 AFY out of a total of 33,900 AFY of wastewater to OCSD, which in turn provides wastewater to Orange County Water District (OCWD) where it is treated and injected into the aquifer as part of the Groundwater Replenishment System (GWRS). In order to meet the objective to reduce diversions of sewage to OCSD, IRWD could construct a new ocean outfall and pipeline. However, an ocean outfall would be prohibitively difficult to construct due to the complexity of acquiring easements and laying pipeline through developed portions of the City of Newport

Beach. A new ocean outfall would also result in a suite of impacts to the terrestrial and marine environment that would exceed in magnitude those of the proposed project. In addition, an ocean outfall would not allow for any of the water storage benefits afforded by expanding and improving Syphon Reservoir. The New Ocean Outfall Alternative would not meet the project objectives and would result in more environmental impacts than the proposed project. Therefore, this alternative is rejected from further consideration in the FEIR.

*Expansion of Green Acres Project.* In response to comments received during the NOP public review period, IRWD evaluated expanding the OCWD Green Acres Project (GAP) as a means of managing IRWD's recycled water produced at the MWRP. The OCWD GAP is a non-potable water supply project that delivers recycled water to irrigation and industrial users. The GAP facilities include 37 miles of pipeline, two reservoirs with a combined storage capacity of 7.5 million gallons, and two pump stations (OCWD 2021). IRWD is connected to the GAP distribution system through a 24-inch metered interconnection pipe. The potential expansion project would include replacement and expansion of existing facilities to allow up to 28 mgd of recycled water from IRWD's non-potable system to GAP. Neither OCSD or OCWD has indicated the need for additional recycled water for GAP or GWRS purposes. Without such a need, it would not be feasible for OCSD and OCWD to accept 28 mgd from IRWD. An evaluation of alternative project scenarios and associated life cycle costs was performed by HDR (HDR 2020). This evaluation confirmed the need to increase IRWD's seasonal storage as the primary method for managing IRWD's recycled water. The GAP expansion alternative would not feasibly attain most of the primary objectives for the proposed project. The GAP expansion alternative: Would not improve local water supply reliability by reducing the need to purchase costly imported water from MWD by storing and using additional recycled water; Would not maximize the use of recycled water produced by IRWD for the benefit of IRWD customers; and Would not reduce recycled water discharges to the ocean. Therefore, this alternative is rejected from further consideration in the FEIR.

## **B. No Project Alternative**

FINDINGS: The No Project Alternative is not environmentally superior to the proposed project.

### FACTS IN SUPPORT OF THE FINDINGS:

Under the No Project Alternative, IRWD would not demolish the existing Syphon Dam and Syphon Reservoir and would not build a new dam and reservoir with a capacity of approximately 5,000 AF and associated infrastructure. The existing 500 AF reservoir would continue to be operated by IRWD, with excess sewage continuing to be sent to OCSD for disposal. The benefits of the proposed project, which include maximizing the use of recycled water produced by IRWD for the benefit of IRWD customers, would not occur.

*Ability to Meet Project Objectives.* The No Project Alternative would not meet most of the project objectives. Without the proposed project, local water supply reliability would not be improved, diversions of sewage to OCSD would not be reduced, water diversions to the ocean would not decrease, and recycled water produced by IRWD for the benefit of IRWD customers would not be maximized. It is important to note that even without implementation of the proposed project, DWR DSOD safety standards would still be met for the existing dam and reservoir.

By not constructing the project, IRWD does not gain the benefit of additional seasonal storage of recycled water which optimizes IRWD's recycled water use for its recycled water customers. Without additional storage capacity provided by the proposed project, as future recycled water

demands increase due to planned growth, there will be an increased shortage of available recycled water during peak water demands. Under the No Project Alternative, IRWD would need to purchase additional costly, imported supplies to ensure that an amount equivalent to the yield of the proposed increase in the Syphon Reservoir's storage capacity is seasonally available to meet IRWD's projected demands during peak periods. Imported water from Metropolitan Water District of Southern California (MWD) is subject to availability and may be reduced under a MWD-implemented Water Supply Allocation Plan during water supply shortages. In addition, without sufficient storage capacity in the winter months when IRWD has excess sewage, IRWD would need to divert excess sewage each year to OCSD for discharge. Under the No Project Alternative, IRWD does not optimize the beneficial reuse of its recycled water and does not provide long term water supply benefits for IRWD.

*Environmental Effects:* The No Project Alternative would avoid all of the mitigated environmental impacts associated with the proposed project but would not meet all of the project objectives. Because the proposed project does not result in any Significant and Unavoidable impacts, the No Project Alternative does not avoid or substantially lessen significant environmental effects.

### **C. Sand Canyon Reservoir Alternative**

The Sand Canyon Reservoir Alternative would involve enlarging the existing Sand Canyon Reservoir in Irvine, CA. IRWD previously identified the expansion of the existing Sand Canyon Reservoir as one option for obtaining additional recycled water storage capacity. The Sand Canyon Reservoir currently has a 768 AF storage capacity (IRWD 2020a) and an early feasibility study indicated that raising the dam 28 feet above its existing elevation would increase the reservoir storage capacity to approximately 3,000 AF. Site constraints include quality and quantity of the onsite borrow and embankment materials and costs associated with property acquisitions (Woodward-Clyde 1992). Expansion of Sand Canyon Reservoir would result in approximately 2,000 AF less recycled water storage when compared to the proposed expansion at Syphon Reservoir. Existing pipelines and pump stations would be sized appropriately for the expansion, and no additional pipelines or pump stations would be required (Woodward-Clyde 1992).

*Ability to Meet Project Objectives.* The Sand Canyon Reservoir Alternative would partially meet all of the project objectives. With the storage capacity capped at 3,000 AF, the Sand Canyon Reservoir Alternative would improve local water supply reliability, but to a lesser extent relative to the Syphon Reservoir expansion. Additionally, while diversions of sewage to OCSD and water diversions to the ocean would be reduced, the reductions would not be to the fullest extent proposed under the project at Syphon Reservoir and reduced amounts of sewage and water would continue to be diverted. Under the Sand Canyon Reservoir Alternative, IRWD would need to purchase additional costly, imported supplies to offset approximately 2,000 AF of recycled water that could not be stored when compared to the proposed project to ensure that water is seasonally available to meet demands of IRWD's recycled water customers. Recycled water produced by IRWD for the benefit of IRWD customers would not be maximized under the Sand Canyon Reservoir Alternative. However, an expansion of the reservoir under the Sand Canyon Reservoir Alternative would meet all DWR DSOD safety standards.

*Environmental Effects.* The Sand Canyon Reservoir Alternative would result in greater impacts when compared to the proposed project to: air quality, noise and vibration, and recreational facilities. The Sand Canyon Reservoir Alternative would avoid all other mitigated environmental impacts associated with the proposed project but would not meet all of the project objectives. Because the proposed project does not result in any Significant and Unavoidable impacts, the

Sand Canyon Reservoir Alternative does not avoid or substantially lessen significant environmental effects.

#### **D. Upper Rattlesnake Reservoir Alternative**

The Upper Rattlesnake Reservoir Alternative would involve expansion of storage capacity at the existing Rattlesnake Dam complex. Rattlesnake Reservoir currently has a capacity of up to 1,480 AF of recycled water storage (IRWD 2020b). This alternative would involve construction of a new dam and upper reservoir that would be 3,000 feet upstream of the existing Rattlesnake Dam and would provide approximately 6,000 AF of recycled water storage. Water would flow from the new Upper Rattlesnake Reservoir downstream to the existing Rattlesnake Reservoir (Woodward-Clyde 1996). In addition, the expanded reservoir would require 5,500 linear feet of new pipeline and a new 1,200 horsepower pump station. IRWD previously identified the expansion of the existing Rattlesnake Reservoir in 1995 and considered the expansion as an alternative to the San Joaquin Reservoir Conservation Project in 2003 (Dudek 2003).

*Ability to Meet Project Objectives.* The Upper Rattlesnake Reservoir Alternative would meet all of the project objectives. The Upper Rattlesnake Reservoir Alternative would improve local water supply reliability by reducing the need to purchase costly, imported water from MWD and would reduce diversions of sewage to OCSD and water diversions to the ocean. Recycled water produced by IRWD for the benefit of IRWD customers would be maximized under the Upper Rattlesnake Reservoir Alternative. Additionally, an expansion of the reservoir under the Upper Rattlesnake Reservoir Alternative would meet all DWR DSOD safety standards.

*Environmental Effects.* The Upper Rattlesnake Reservoir Alternative would result in greater impacts when compared to the proposed project to: aesthetics, air quality, and noise and vibration. All other mitigated environmental impacts associated with the proposed project will be avoided. Because the proposed project does not result in any Significant and Unavoidable impacts, the Upper Rattlesnake Reservoir Alternative does not avoid or substantially lessen significant environmental effects.

#### **E. Reduced Project Alternative**

The Reduced Project Alternative would result in expansion of Syphon Reservoir but not at the capacity proposed under the project. Instead of raising the existing 59-foot dam height to 136 feet as proposed for the project, the Reduced Project Alternative would raise the existing dam to 98 feet. The Reduced Project Alternative would provide approximately 2,500 AF of recycled water storage, or about half of the proposed project's capacity. The Reduced Project Alternative would involve similar activities as the project, such as excavation of large amounts of onsite sediment, import of dam embankment material, construction of a spillway, treatment facility, access roads, and recreation trail.

*Ability to Meet Project Objectives.* The Reduced Project Alternative would partially meet all of the project objectives. Because the Reduced Project Alternative would result in half of the storage proposed under the project, IRWD would still have to purchase costly, imported water from MWD to account for the lack of full storage potential. Due to the fact that the full capacity of the reservoir would not be achieved, IRWD would not be able to maximize the use of recycled water to benefit its customers within its service area. Additionally, while diversions of sewage to OCSD and recycled water to the ocean would be reduced if approximately half of the storage at Syphon Reservoir were achieved, diversions would still occur under the Reduced Project

Alternative. Any new dam built by IRWD would continue to meet or exceed the current safety and design requirements established by DSOD.

*Environmental Effects.* The Reduced Project Alternative would avoid all of the mitigated environmental impacts associated with the proposed project but would not meet all of the project objectives. Because the proposed project does not result in any Significant and Unavoidable impacts, the Reduced Project Alternative does not avoid or substantially lessen significant environmental effects.

## **F. Environmentally Superior Alternative**

CEQA requires that an EIR identify the environmentally superior alternative of a project other than the No Project Alternative (CEQA Guidelines Section 15126.6(e)(2)). While the proposed project would result in potentially significant impacts, with the incorporation of mitigation measures, no significant and unavoidable impacts would occur. The Sand Canyon Reservoir Alternative and the Upper Rattlesnake Reservoir Alternative would result in greater environmental impacts due to proximity to sensitive receptors, when compared to the proposed project. The Reduced Project Alternative would generally result in similar environmental impacts to the proposed project without fully achieving its objectives. Overall, none of the alternatives would avoid any impacts or mitigation measures associated with the proposed project. Only the Upper Rattlesnake Reservoir Alternative would fully achieve all of the project objectives, but with greater environmental impacts than the proposed project.

## **V. General Findings**

A. The written Responses to Comments contained in the FEIR Chapters 10 and 11 have adequately responded to the comments received on the DEIR in the public review process.

B. Recirculation of the DEIR following the preparation of the Responses to Comments is not required. The Responses to Comments and resulting revisions to the DEIR do not add significant new information to the FEIR, including information showing any new significant impact from the project, any increase in the severity of any impact, or any considerably different, feasible alternative.

FACTS IN SUPPORT OF THE FINDINGS. The primary comment areas were concerns over affects to inundation and flooding, biological resources, aesthetics impacts, traffic and transportation, and noise.

Each of these areas were analyzed in the DEIR as explained in the FEIR Chapters 10 and 11, were determined not to raise significant environmental issues that are required to be analyzed in the FEIR, or were clarified or amplified by analysis in FEIR Chapters 10 and 11.

The Responses to Comments merely clarify and amplify the DEIR's discussion of the analyses. The FEIR includes text revisions to the DEIR to further clarify and/or strengthen measures and commitments regarding aesthetics impacts from the proposed enlarged Syphon Dam on surrounding public vantage points, and noise impacts to sensitive receptors during construction. Other minor clarifying text revisions were also made. The revisions merely clarify information presented in the DEIR. Only minor technical changes or additions have been made.

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## **SYPHON RESERVOIR IMPROVEMENT PROJECT**

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### Mitigation Monitoring and Reporting Program

#### **CEQA Requirements**

Section 15091(d) and Section 15097 of the CEQA Guidelines require a public agency to adopt a program for monitoring or reporting on the changes it has required in the project or conditions of approval to substantially lessen or avoid significant environmental effects. This Mitigation Monitoring and Reporting Program (MMRP) summarizes the mitigation commitments and project features identified in the Syphon Reservoir Improvement Project Final EIR (State Clearinghouse No. 2019080009). Mitigation measures and project design features are presented according to environmental topic, in the same order as they occur in the Final EIR.

The columns in the MMRP table provide the following information:

- **Mitigation Measure(s)/Project Design Features:** The Mitigation Measures are the action(s) that will be taken to reduce the impact to a less-than-significant level. The Project Design Features are additional commitments that IRWD will implement to reduce effects to environmental resources but are not required to mitigate an impact to a less-than-significant level.
- **Implementation, Monitoring, and Reporting Action:** The appropriate steps to implement and document compliance with the mitigation measures.
- **Responsibility:** The agency or private entity responsible for ensuring implementation of the mitigation measure. However, until the mitigation measures are completed, IRWD, as the CEQA Lead Agency, remains responsible for ensuring that implementation of the mitigation measures occur in accordance with the MMRP (CEQA Guidelines, Section 15097(a)).
- **Monitoring Schedule:** The general schedule for conducting each task, either prior to construction, during construction and/or after construction.

**MITIGATION MONITORING AND REPORTING PROGRAM  
FOR THE KERN FAN GROUNDWATER STORAGE PROJECT**

Mitigation Measures/Project Design Features	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
<b>Aesthetics</b>			
<p><b>AES-1:</b> Aboveground buildings/structures/retaining walls shall be designed to have earth-tone color palettes that blend in with the surrounding landscape and vegetation.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in project design and construction contractor specifications.</li> <li>• Perform site inspections to ensure design specifications are being implemented according to aesthetics mitigation measures during construction.</li> <li>• Maintain documentation of site inspections in the project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>
<p><b>AES-2:</b> All new permanent exterior lighting associated with the proposed project shall be shielded and directed downward to avoid light spill onto neighboring parcels and visibility from surrounding public vantage points.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in project design and construction contractor specifications.</li> <li>• Perform site inspections to ensure lighting is being implemented according to aesthetics mitigation measures during construction.</li> <li>• Maintain documentation of site inspections in the project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>
<b>Air Quality</b>			
<p><b>AIR-1:</b> IRWD shall require the construction contractor to implement construction equipment features for equipment operating at the project site during certain construction phases. Construction features will include the following: The proposed project shall utilize off-road diesel-powered construction equipment that meet or exceed CARB and USEPA Tier 4 off-road emissions standards for standard construction equipment rated at 50 horsepower (hp) or greater during project construction. Such equipment will be outfitted with BACT devices including a CARB certified Level 3 Diesel Particulate Filter or equivalent. At a minimum, this measure shall apply during implementation of the following construction sub-phases: upstream excavation and foundation treatment, dam excavation and foundation treatment, installation of embankment to the bottom of the blanket drain, and installation of the chimney/remaining embankment.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Perform site inspections to ensure mitigation is being implemented during construction.</li> <li>• Maintain documentation of site inspections in the project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>
<b>Biological Resources</b>			
<p><b>BIO-1:</b> IRWD has been engaged in close coordination with the Wildlife Agencies (i.e., USFWS and CDFW) since 2018 to develop a multi-faceted mitigation strategy to address impacts to California gnatcatcher, as well as to address the additional mitigation the agencies mandate to compensate for displacement of habitat and land previously set aside for mitigation and subject to the restrictions and requirements imposed under the Mitigation Grant Deed, of which USFWS is a third-party beneficiary. To date, IRWD has researched numerous off-site lands with high value habitat and biological resources, and initiated negotiations with landowners for possible acquisition. IRWD shall implement</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Retain copies of all correspondence and documentation with Wildlife Agencies in the project file, including documentation of the use to Incidental Take Credits and the final habitat mitigation plan that</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before, During, and After Construction</p>

**MITIGATION MONITORING AND REPORTING PROGRAM  
FOR THE KERN FAN GROUNDWATER STORAGE PROJECT**

Mitigation Measures/Project Design Features	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
<p>one, or a combination, of the following measures to mitigate permanent impacts to special-status wildlife species:</p> <ul style="list-style-type: none"> <li>a. Use of Incidental Take Credits for participating landowners (within the Reserve, or outside of the Reserve) to offset permanent impacts to coastal sage scrub (e.g., California sagebrush scrub, California sagebrush scrub/non-native herbaceous cover, coyote brush scrub, chaparral bushmallow scrub, chaparral bushmallow scrub/non-native herbaceous cover, and non-native herbaceous cover/California sagebrush scrub) at a 1:1 impact-to-mitigation ratio.</li> <li>b. On- and/or off-site creation, restoration, and/or enhancement containing natural communities suitable for special-status species or comparable, as determined acceptable by the USFWS and CDFW.</li> <li>c. Off-site land acquisition, preservation, creation, restoration, and/or enhancement containing natural communities suitable for special-status species or comparable, as determined acceptable by the USFWS and CDFW.</li> <li>d. Areas where temporary impacts occur would be returned to pre-project conditions (i.e., pre-project elevation contours and revegetated with native upland scrub species) within one-year after construction is completed, and will be monitored for three years, or until a qualified biologist determines that the project site has returned to pre-project conditions. A revegetation plan would be prepared to re-seed/re-plant the area with local species, and would include performance standards, success criteria, maintenance, and future monitoring.</li> </ul>	<p>includes on-site and off-site habitat restoration, enhancement, and preservation.</p> <ul style="list-style-type: none"> <li>• Retain the revegetation plan in the project file, as well as documentation related to implementation of the plan.</li> <li>• Perform site inspections to ensure mitigation is being implemented. A monitoring log will be maintained to document revegetation at the project site.</li> </ul>		
<p><b>BIO-2:</b> In accordance with the NCCP/HCP, certain construction-related mitigation measures are required to minimize impacts to the coastal California gnatcatcher and other coastal sage scrub species. The removal of coastal sage scrub communities will be conducted in compliance with the NCCP/HCP's Construction Related Minimization Measures:</p> <ul style="list-style-type: none"> <li>a. To the maximum extent practicable, no grading of coastal sage scrub habitat that is occupied by nesting gnatcatchers will occur during the breeding season (February 15 through July 15).</li> <li>b. Prior to the commencement of grading operations or other activities involving significant soil disturbance, all areas of coastal sage scrub habitat to be avoided under the provisions of the NCCP/HCP shall be identified with temporary fencing or other markers clearly visible to construction personnel. Additionally, prior to the commencement of grading operations or other activities involving disturbance of coastal sage scrub, a survey will be conducted to locate gnatcatchers and cactus wrens within 100 feet of the outer extent of projected soil disturbance activities and the locations of any such species shall be clearly marked and identified on the construction/grading plans.</li> <li>c. A monitoring biologist, acceptable to USFWS/CDFW, will be on-site during any clearing of coastal sage scrub. IRWD will advise USFWS/CDFW at least seven</li> </ul>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Retain copies of all correspondence and documentation with Wildlife Agencies in the project file.</li> <li>• Perform construction site inspections to ensure Construction Related Minimization Measures are implemented properly. A monitoring log will be maintained to document results of site inspections.</li> <li>• Log attendance at pre-construction meetings related to coastal sage scrub protection in the NCCP/HCP.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>

**MITIGATION MONITORING AND REPORTING PROGRAM  
FOR THE KERN FAN GROUNDWATER STORAGE PROJECT**

Mitigation Measures/Project Design Features	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
<p>calendar days (and preferably fourteen calendar days) prior to the clearing of any habitat occupied by Identified Species to allow USFWS/CDFW to work with the monitoring biologist in connection with bird flushing/capture activities. The monitoring biologist will flush Identified Species (avian or other mobile Identified Species) from occupied habitat areas immediately prior to brush-clearing and earth-moving activities. If birds cannot be flushed, they will be captured in mist nets, if feasible, and relocated to areas of the site to be protected or to the NCCP/HCP Reserve System. It will be the responsibility of the monitoring biologist to assure that Identified bird species will not be directly impacted by brush-clearing and earth-moving equipment in a manner that also allows for construction activities on a timely basis.</p> <p>d. Following the completion of initial grading/earth moving activities, all areas of coastal sage scrub habitat to be avoided by construction equipment and personnel will be marked with temporary fencing and other appropriate markers clearly visible to construction personnel. No construction access, parking, or storage of equipment or materials will be permitted within such marked areas.</p> <p>e. In areas bordering the NCCP Reserve System or Special Linkage/Special Management areas containing significant coastal sage scrub identified in the NCCP/HCP for protection, vehicle/equipment transportation routes and staging areas will be restricted to a minimum number during construction consistent with project construction requirements. Waste dirt or rubble will not be deposited on adjacent coastal sage scrub identified in the NCCP/HCP for protection. Pre-construction meetings involving the monitoring biologist, construction supervisors, and equipment operators will be conducted and documented to ensure maximum practicable adherence to these measures.</p> <p>f. Coastal sage scrub identified in the NCCP/HCP for protection and located within the likely dust drift radius of construction areas shall be periodically sprayed with water to reduce accumulated dust on the leaves as recommended by the monitoring biologist.</p>			
<p><b>BIO-3:</b> Impacts to nesting birds would be avoided by conducting all clearing and grubbing outside of the bird nesting season (i.e., work should occur September 1 to February 14, or July 1 to January 14 for raptors). If clearing and grubbing cannot avoid the bird nesting season, the following measures would be implemented:</p> <p>a. Prior to work during the bird nesting season (February 15 to August 31, or January 15 to June 31 for raptors), a qualified biologist should conduct a pre-construction survey of all suitable habitat for the presence of nesting birds no more than 7 days prior to construction and/or maintenance activities. The results of the pre-construction survey would be valid for 7 days; if vegetation removal activities do not commence within 7 days following the survey, a new pre-construction nesting bird survey should be conducted before these activities begin again. If no active nests are found, then no further mitigation is required.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Maintain a record of pre-construction habitat survey results in the project file.</li> <li>• Perform construction site inspections to ensure buffer/avoidance measures are implemented properly. A monitoring log will be maintained to document results of site inspections.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>

**MITIGATION MONITORING AND REPORTING PROGRAM  
FOR THE KERN FAN GROUNDWATER STORAGE PROJECT**

Mitigation Measures/Project Design Features	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
<p>b. If any active nests are found during a pre-construction nesting bird survey, a buffer of 300 feet (500 feet for raptors), or as determined appropriate by the qualified biologist (based on species-specific tolerances and site-specific conditions) in consultation with IRWD, would be delineated, flagged, and avoided until the nesting cycle is complete (i.e., the qualified biologist determines that the young have fledged or the nest has failed). The qualified biologist may also recommend other measures to minimize disturbances to the nest, which may include, but are not limited to, erection of sound barriers (e.g., noise blankets), erection of visual barriers (e.g., hay bales), or full-time monitoring by a qualified biologist.</p>			
<p><b>BIO-4:</b> With the creation of on-site riparian and wetland habitat areas, as part of the proposed project, there will be no net loss of woody riparian habitat for least Bell's vireo and no net loss of any wetland habitat. Nevertheless, there will be a temporary loss of these habitats until construction is completed and riparian habitat can be reestablished that the species can use again. IRWD is engaged with the Wildlife Agencies and is collaboratively developing a comprehensive program to address temporal impacts to least Bell's vireo and other riparian-associated special-status wildlife species (e.g., yellow warbler, yellow-breasted chat). IRWD shall implement the following measure to compensate for temporal impacts to least Bell's vireo and associated riparian special-status wildlife species (e.g., yellow warbler, yellow-breasted chat):</p> <p>a. Off-site land acquisition and preservation, and/or creation, restoration, and/or enhancement, of areas containing habitat suitable for least Bell's vireo and associated riparian special-status wildlife species (e.g., yellow warbler, yellow-breasted chat) to compensate for temporal loss in an amount or at a ratio determined acceptable by the USFWS and CDFW. Any private lands acquired and/or restored for this mitigation would be permanently preserved and dedicated for habitat conservation.</p>	<ul style="list-style-type: none"> <li>Retain copies of all correspondence and documentation with Wildlife Agencies in the project file.</li> <li>Maintain a record of compensatory habitat site mitigation and monitoring.</li> </ul>	<p align="center">IRWD</p>	<p align="center">Before, During, and After Construction</p>
<p><b>BIO-5:</b> IRWD shall implement the following measure to mitigate indirect impacts to special-status wildlife species:</p> <p>a. Educational signage shall be posted at the entrances of the proposed walking trail to inform the public about the sensitive biological resources in the area and local wildlife in the area (e.g., rattlesnakes, coyotes). Signage would also be posted periodically along the proposed trail to remind public to keep on the trail and out of sensitive habitat areas.</p> <p>b. The proposed trail shall only be open during daylight hours (e.g., dawn to dusk).</p> <p>c. A Resource Management Plan (RMP) shall be prepared to outline long-term maintenance and management responsibilities for the preservation of the biological resources on-site (e.g., invasive species management, monitoring access issues, off-trail use, erosion, trash). The RMP should also provide guidance to ensure that all operations and maintenance activities performed on-site must also comply with all applicable requirements of the NCCP/HCP and the preservation of the biological</p>	<ul style="list-style-type: none"> <li>Include mitigation measure in construction contractor specifications.</li> <li>Perform site inspections to ensure appropriate signage is posted according to mitigation measures after construction is completed.</li> <li>Retain the Resource Management Plan in the project file. Retain monitoring records for long-term maintenance and management of the project site as required by the Resource Management Plan.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and After Construction</p>

**MITIGATION MONITORING AND REPORTING PROGRAM  
FOR THE KERN FAN GROUNDWATER STORAGE PROJECT**

Mitigation Measures/Project Design Features	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
resources on-site. The RMP would also outline monitoring requirements for species populations for federal and state-listed species (i.e., least Bell's vireo and California gnatcatcher).			
<p><b>BIO-6:</b> IRWD shall implement one, or a combination, of the following measures to mitigate impacts to sensitive natural communities:</p> <p>a. Use of Incidental Take Credits for NCCP/HCP participating landowners (within the Reserve, or outside of the Reserve) to offset permanent impacts to coastal sage scrub (e.g., California sagebrush scrub, California sagebrush scrub/non-native herbaceous cover, coyote brush scrub, chaparral bushmallow scrub, chaparral bushmallow scrub/non-native herbaceous cover, and non-native herbaceous cover/California sagebrush scrub) at a 1:1 impact-to-mitigation ratio.</p> <p>b. On- and/or off-site land acquisition and preservation, and/or creation, restoration, and/or enhancement of sensitive natural communities comparable or equivalent to a 1:1 impact-to-mitigation ratio, or as determined acceptable by the USFWS and CDFW.</p> <p>c. Areas where temporary impacts occur to sensitive natural communities (e.g., California sagebrush scrub) would be returned to pre-project conditions (i.e., pre-project elevation contours and revegetation initiated) within one-year after the construction is completed, and will be monitored for three years, or until a qualified biologist determines that affected natural communities have been restored to equivalent or better condition as compared to pre-project conditions. A revegetation plan would be prepared to re-seed/re-plant the area with locally indigenous native species, and would include performance standards, success criteria, maintenance, and future monitoring.</p>	<ul style="list-style-type: none"> <li>Retain copies of all correspondence and documentation with Wildlife Agencies in the project file including documentation of the use to Incidental Take Credits and the final habitat mitigation plan that includes on-site and off-site habitat restoration, enhancement, and preservation.</li> <li>Retain the revegetation plan in the project file, as well as documentation related to implementation of the plan.</li> <li>Perform site inspections to ensure mitigation is being implemented. A monitoring log will be maintained to document revegetation at the project site.</li> </ul>	IRWD	Before, During, and After Construction
<p><b>BIO-7:</b> IRWD shall negotiate and execute a Lake or Streambed Alteration Agreement under Section 1602 of the California Fish and Game Code with CDFW.</p>	<ul style="list-style-type: none"> <li>Retain copies of all correspondence and documentation with Wildlife Agencies in the project file.</li> <li>Retain copies of the LSAA in the project file. Perform project site inspections to ensure LSAA permit requirements are implemented properly. A monitoring log will be maintained to document results of site inspections.</li> </ul>	IRWD	Before, During, and After Construction
<b>Cultural Resources</b>			
<p><b>CR-1: Avoidance of Unevaluated Resources.</b> Two resources (CA-ORA-1237 and the Latrine Site) are considered historical resources for purposes of this project. Both resources occur within close proximity to proposed project activities. Prior to work in the vicinity of the resources (i.e., within 100 feet), Environmentally Sensitive Areas consisting of protective fencing or flagging shall be established around the boundary of each resource, including a 50-foot buffer. The establishment of the Environmentally</p>	<ul style="list-style-type: none"> <li>Include mitigation measure in construction contractor specifications.</li> <li>Document and retain records of exclusion areas and monitoring reports in the project file.</li> <li>Save documentation related to retention of a Qualified Archaeologist in the project file.</li> </ul>	IRWD; Construction Contractor	Before and During Construction

**MITIGATION MONITORING AND REPORTING PROGRAM  
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Mitigation Measures/Project Design Features	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
<p>Sensitive Areas and installation of required fencing or flagging shall be carried out under the supervision of a Qualified Archaeologist, defined as an archaeologist meeting the Secretary of the Interior's standards for archaeology (USDI 2008), or an archaeologist working under the direction of the Qualified Archaeologist. Environmentally Sensitive Areas should be clearly marked in the field and on design plans with exclusion markers to ensure avoidance during project-related ground disturbance. The protective fencing or flagging should not identify the Environmentally Sensitive Areas as cultural resource areas to discourage unauthorized disturbance or collection of artifacts. Ground disturbing activities in the vicinity of the Environmentally Sensitive Areas should be monitored, as described in Mitigation Measure CR-3.</p>			
<p><b>CR-2: Worker Sensitivity Training.</b> Prior to the start of construction activities, all construction personnel should be trained to identify the types of cultural resources that may be encountered during project implementation. These include both prehistoric and historic period archaeological resources. In addition to cultural resources recognition, the training should convey procedures to follow in the event of a potential cultural resources discovery, including notification procedures. The training should be provided by the Qualified Archaeologist or an archaeologist working under their supervision.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Retain copies of personnel attendance at the sensitivity training in the project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>
<p><b>CR-3: Construction Monitoring.</b> An archaeological monitor (working under the direct supervision of the Qualified Archaeologist) shall observe all ground-disturbing activities, including but not limited to brush clearance, vegetation removal, grubbing, grading, and excavation, in undisturbed areas of the project site. In addition, the Qualified Archaeologist, in coordination with IRWD, may reduce or discontinue monitoring if it is determined that the possibility of encountering buried archaeological deposits is low based on observations of soil stratigraphy or other factors. Archaeological monitoring shall be conducted by an archaeologist familiar with the types of archaeological resources that could be encountered within the project site. The archaeological monitor, in consultation with IRWD, shall be empowered to halt or redirect ground-disturbing activities away from the vicinity of a discovery until the Qualified Archaeologist has evaluated the discovery, consulted with IRWD, and determined appropriate treatment (as prescribed in CR-4). The archaeological monitor shall keep daily logs detailing the types of activities and soils observed, and any discoveries. After monitoring has been completed, the Qualified Archaeologist shall prepare a monitoring report that details the results of monitoring. The report shall be submitted to IRWD and any Native American groups who request a copy. The Qualified Archaeologist shall submit a copy of the final report to the California Historic Resources Information System (CHRIS) South Central Coastal Information Center (SCCIC).</p> <p>In addition, prior to the commencement of earthwork activities, IRWD shall provide written notification to the Native American representatives from the Gabrieleno Band of Mission Indians - Kizh Nation indicating the date and time of the commencement of earthwork activities. The representatives from the Gabrieleno Band of Mission Indians -</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Save documentation related to retention of a Qualified Archaeologist in the project file.</li> <li>• Maintain a monitoring log and retain records regarding discovery of archaeological resources in the project file.</li> <li>• Retain a copy of the monitoring report in the project file.</li> <li>• Retain copies of correspondence with Native American representatives in the project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">During Construction</p>

**MITIGATION MONITORING AND REPORTING PROGRAM  
FOR THE KERN FAN GROUNDWATER STORAGE PROJECT**

Mitigation Measures/Project Design Features	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
<p>Kizh Nation (“tribal representative”) shall be provided reasonable access to the project site in a manner that does not interfere with the earthwork activities. Tribal representatives, at their own expense, and in a manner that does not interfere with earthwork activities, shall be allowed to monitor subsurface ground-disturbing construction activities. The monitoring may consist of either direct observation of the earthwork activities or the examination of the excavated soils prior to disposal for evidence of cultural resources. If any cultural resources are identified during the monitoring and evidence is presented that the discovery proves to be potentially significant under CEQA, as determined by IRWD’s consulting Qualified Archaeologist, additional measures such as data recovery excavation, avoidance of the area of the find, documentation, testing, data recovery, reburial, archival review and/or transfer to the appropriate museum or educational institution, or other appropriate actions may be warranted as recommended by IRWD’s consulting Qualified Archeologist in consultation with the tribal representative.</p>			
<p><b>CR-4: Protocols for Unanticipated Discoveries.</b> If cultural resources are encountered during project implementation, all activity within 50 feet of the find should cease until the find can be evaluated by the Qualified Archaeologist. If the Qualified Archaeologist determines that the resources may be significant, he or she will notify IRWD and together with IRWD, shall develop an appropriate treatment plan for the resource. IRWD should consult with the Native American monitor or other appropriate Native American representatives in determining appropriate treatment for unearthed cultural resources if the resources are prehistoric or Native American in nature. Under CEQA, preservation in place is the preferred manner of mitigating impacts to archaeological sites. However, if avoidance is infeasible, other appropriate measures will be instituted, which could include, among other options, detailed documentation, or data recovery excavation. Work may proceed on other parts of the project area while mitigation for cultural resources is being carried out.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications</li> <li>• If found, document and retain records regarding discovery of archaeological resources.</li> <li>• Retain the construction monitoring report in project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">During Construction</p>
<p><b>Geology and Soils</b></p>			
<p><b>GEO-1: Appoint a Qualified Paleontologist.</b> A qualified paleontologist meeting the Society of Vertebrate Paleontology (SVP) Standards (SVP 2010) (Qualified Paleontologist) shall be retained prior to the start of ground disturbing activities. The Qualified Paleontologist shall provide technical and compliance oversight of all work as it relates to paleontological resources, shall attend the project kick-off meeting and project progress meetings on a regular basis, and shall report to the site in the event potential paleontological resources are encountered.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Save documentation related to the retention of a Qualified Paleontologist.</li> <li>• Retain copies of personnel attendance at the paleontological resources’ meetings in the project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>

**MITIGATION MONITORING AND REPORTING PROGRAM  
FOR THE KERN FAN GROUNDWATER STORAGE PROJECT**

Mitigation Measures/Project Design Features	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
<p><b>GEO-2: Worker Sensitivity Training.</b> The Qualified Paleontologist shall conduct construction worker paleontological resources sensitivity training prior to the start of ground disturbing activities (including vegetation removal, pavement removal, etc.). This can occur in coordination with Cultural Resources Worker Sensitivity Training (Mitigation Measure CR-1). In the event construction crews are phased, additional trainings shall be conducted for new construction personnel. The training session shall focus on the recognition of the types of paleontological resources that could be encountered within the project site and the procedures to be followed if they are found. Documentation shall be retained demonstrating that all construction personnel attended the training.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Retain copies of personnel attendance at the sensitivity training in the project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>
<p><b>GEO-3: Paleontological Monitoring.</b> Paleontological resources monitoring shall be conducted for ground disturbing activities occurring in previously undisturbed sediments with high paleontological sensitivity, including any areas containing the Silverado Formation or Sespe/Vaqueros Formation, very old Quaternary Alluvium, and deeper layers of younger Quaternary Alluvium (which overly sensitive older Quaternary Alluvium). Ground disturbing activities include vegetation removal, grading, excavation, pavement removal, roadway improvements, or other similar activities within these sensitive formations. For undisturbed sediments mapped as the Silverado Formation, Sespe/Vaqueros Formation, or very old Quaternary Alluvium, monitoring of all ground disturbance is initially required. A depth of 5 feet bgs is established as the depth at which high sensitivity and paleontological monitoring should begin in the younger Quaternary Alluvium. The Qualified Paleontologist shall evaluate ground disturbing activities on an intermittent basis and consult with IRWD on whether the depth or frequency of required monitoring should be revised or may cease.</p> <p>Paleontological resources monitoring shall be performed by a qualified paleontological monitor (meeting the standards of the SVP 2010) under the direction of the Qualified Paleontologist, and in conjunction with IRWD. Monitors shall have the authority to temporarily halt or divert work away from exposed fossils in order to recover the fossil specimens. Any significant fossils collected during project-related excavations shall be salvaged and prepared to the point of identification following the standards of the SVP (2010). Monitors shall prepare daily logs detailing the types of activities and soils observed, and any discoveries. The Qualified Paleontologist shall prepare a final monitoring and mitigation report to document the results of the monitoring effort. Any salvaged fossils shall be offered for donation to an accredited repository with a scientific interest in the materials. If no accredited repository accepts the donation, then the fossils may be donated to a local museum, historical society, school, or other institution for educational purposes.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications</li> <li>• If found, document and retain records regarding discovery of paleontological resources.</li> <li>• Retain the paleontological resources monitoring report in the project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">During Construction</p>

**MITIGATION MONITORING AND REPORTING PROGRAM  
FOR THE KERN FAN GROUNDWATER STORAGE PROJECT**

<b>Mitigation Measures/Project Design Features</b>	<b>Implementation, Monitoring, and Reporting Action</b>	<b>Responsibility</b>	<b>Monitoring Schedule</b>
<p><b>GEO-4: Fossil Discovery.</b> If personnel or workers discover any potential fossils during project implementation, regardless of the depth of work or location, work at the discovery location shall cease in a 50-foot radius of the discovery until the Qualified Paleontologist has assessed the discovery, consulted with IRWD, and made recommendations as to the appropriate treatment. If the find is deemed significant, the qualified paleontologist shall salvage the resource following the standards of the SVP (2010). Any salvaged fossils shall be offered for donation to an accredited repository with a scientific interest in the materials. If no accredited repository accepts the donation, then the fossils may be donated to a local museum, historical society, school, or other institution for educational purposes.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications</li> <li>• If found, document and retain records regarding discovery of fossils resources.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">During Construction</p>
<b>Noise</b>			
<p><b>PDF N-1: Control of Construction Hours.</b> Construction activities occurring as part of the project will be subject to the hours of day limitations that allows for construction activities to occur between 7:00 a.m. and 7:00 p.m. Mondays through Fridays, and between 9:00 a.m. and 6:00 p.m. on Saturdays. No construction activities shall be permitted outside of these hours or on Sundays and federal holidays unless any required temporary waiver is received.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Perform site inspections to routinely verify compliance with construction hours.</li> <li>• Retain copies of monitoring logs in the project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>
<p><b>PDF N-2: Noise Control.</b> IRWD shall incorporate the following measures to ensure that specific noise sources are controlled.</p> <ul style="list-style-type: none"> <li>• Construction equipment, fixed or mobile, shall be equipped with properly operating and maintained noise mufflers consistent with manufacturers' standards.</li> <li>• Construction staging areas shall be located at least 100 feet away from off-site sensitive uses during project construction.</li> <li>• The project contractor shall place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the project site, whenever feasible.</li> </ul>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Perform site inspections to routinely verify compliance with construction hours.</li> <li>• Retain copies of monitoring logs in the project file.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>
<b>Transportation</b>			
<p><b>TRA-1: Traffic Control Plan.</b> Prior to the start of construction, IRWD shall require the construction contractor to prepare and have approved a Traffic Control Plan. The Traffic Control Plan will show all signage, striping, delineated detours, flagging operations, and any other devices that will be used during installation of the improvements at the intersection of Sand Canyon Avenue and Portola Parkway to guide motorists, bicyclists, and pedestrians safely through the construction area and allow for adequate access and circulation to the satisfaction of the City of Irvine, as applicable. The Traffic Control Plan</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Retain copies of the Traffic Control Plan that has been approved by the applicable local jurisdiction(s) in the project file.</li> <li>• Perform site inspections to routinely verify proper implementation of the approved Plan.</li> </ul>	<p align="center">IRWD; Construction Contractor</p>	<p align="center">Before and During Construction</p>

**MITIGATION MONITORING AND REPORTING PROGRAM  
FOR THE KERN FAN GROUNDWATER STORAGE PROJECT**

Mitigation Measures/Project Design Features	Implementation, Monitoring, and Reporting Action	Responsibility	Monitoring Schedule
<p>shall be prepared in accordance with the City of Irvine's traffic control guidelines and will be prepared to ensure that emergency access will not be restricted. Additionally, the Traffic Control Plan will ensure that congestion and traffic delays are not substantially increased as a result of the construction activities. Further, the Traffic Control Plan will include detours or alternative routes for bicyclists using on-street bicycle lanes as well as for pedestrians using adjacent sidewalks.</p> <p>IRWD shall also notify local emergency responders of any planned partial or full lane closures required for project construction. Emergency responders include fire departments, police departments, and ambulances that have jurisdiction within the project area. Written notification and disclosure of lane closure location must be provided at least 30 days prior to the planned closure to allow emergency response providers adequate time to prepare for lane closures.</p>	<ul style="list-style-type: none"> <li>• Retain copies of monitoring logs in the project file.</li> <li>• Retain copies of necessary permits obtained for any work within the road right-of-way.</li> </ul>		
<b>Wildfire</b>			
<p><b>WDF-1: Fire Hazard Reduction Measures.</b> During project implementation, IRWD shall require all spark arrestors on construction and maintenance equipment to be in good working order. Contractors shall require all vehicles and crews to have access to functional fire extinguishers at all times.</p>	<ul style="list-style-type: none"> <li>• Include mitigation measure in construction contractor specifications.</li> <li>• Perform site inspections to routinely verify implementation of fire hazard reduction measures. A monitoring log will be maintained to document results of site inspections.</li> </ul>	IRWD; Construction Contractor	During Construction

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## Exhibit “E”

### RESOLUTION NO. 2021 - RESOLUTION OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT CERTIFYING THE FINAL ENVIRONMENTAL IMPACT REPORT AND APPROVING THE SYPHON RESERVOIR IMPROVEMENT PROJECT

The Irvine Ranch Water District (“**IRWD**”) proposes to implement the Syphon Reservoir Improvement Project (the “**Project**”) to increase IRWD’s seasonal recycled water storage capacity. The Project will improve local water supply reliability and reduce the need to purchase costly imported water by storing recycled water produced during low-demand periods for later use during high demand periods, allowing IRWD to maximize the use of recycled water produced by IRWD for the benefit of IRWD customers.

Pursuant to the California Environmental Quality Act (“**CEQA**”) and the State CEQA Guidelines (14 CCR § 15000 et seq.), IRWD is the lead agency for the Project.

IRWD prepared a Notice of Preparation (“**NOP**”) of an Environmental Impact Report (“**EIR**”) for the Project and publicly circulated that NOP for 45 days beginning on August 2, 2019. In addition, a public scoping meeting was held on August 21, 2019.

Taking into consideration the comments received during the public scoping process and other CEQA requirements relating to the contents of an EIR, IRWD prepared a Draft Environmental Impact Report (“**DEIR**”) and circulated it from March 19, 2021 to May 18, 2021. IRWD provided an opportunity for the public to submit written or verbal comments on the DEIR, including at a public meeting held via Zoom, a virtual communication program, on April 21, 2021.

During the official public review period for the DEIR, IRWD received eleven comment letters from interested persons, organizations, and agencies. IRWD responded to comments on July 15, 2021. IRWD has prepared a Final EIR (“**FEIR**”) in which those comments and IRWD’s responses are set forth in separate chapters, along with revisions to the DEIR text and other information required by CEQA to be included in an FEIR.

CEQA requires the agency to make a specified finding or findings supported by substantial evidence in the record with respect to each significant effect identified in the EIR, and to adopt a mitigation monitoring and reporting program (“**MMRP**”) for the changes to the project it has adopted or made a condition of approval in order to mitigate or avoid significant project-related impacts on the environment.

IRWD’s Board of Directors has reviewed and considered the information contained in the EIR, the proposed findings presented at this meeting and attached as Exhibit A to this Resolution (“**Findings**”), the MMRP, and all oral and written evidence constituting the administrative record presented to this Board, which is on file with the Secretary of IRWD.

The Findings and conclusions of this Board pursuant to this resolution are based upon the oral and written evidence presented to it as a whole and not solely on the information contained in this resolution.

The Board of Directors of Irvine Ranch Water District therefore resolves as follows:

Section 1. The Board of Directors of IRWD certifies that:

A. The FEIR has been completed in compliance with CEQA.

B. The FEIR has been presented to the Board of Directors of IRWD, which has reviewed and considered the environmental effects of the Project as shown in the FEIR, as well as all the other information contained in the FEIR, prior to approving the Project.

C. The FEIR reflects IRWD's independent judgment and analysis.

Section 2. The MMRP and the Findings with regard to potentially significant impacts set forth in Exhibit A are hereby approved.

Section 3. IRWD has eliminated or substantially lessened all significant effects of the project on the environment as shown in the Findings and as provided in the MMRP.

Section 4. The Board of Directors of IRWD has reviewed and considered the environmental effects of the Project as shown in the FEIR, as well as all the other information contained in the FEIR, prior to approving the Project.

Section 5. The Project is hereby approved.

Section 6. The documents and other material that constitute the record of the proceedings upon which the approval of the project is based are located at Irvine Ranch Water District, and the custodian of those records is the Secretary to the Board of Directors.

Section 7. The General Manager or his designee is hereby authorized and directed to take all actions necessary to effectuate the intent of this resolution, and to cause a Notice of Determination reflecting the foregoing actions to be executed and filed with the Orange County Clerk and the State Clearinghouse.

ADOPTED, SIGNED AND APPROVED on July 26, 2021.

\_\_\_\_\_  
President  
IRVINE RANCH WATER DISTRICT

\_\_\_\_\_  
Secretary  
IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

\_\_\_\_\_  
By: Claire H. Collins  
HANSON BRIDGETT LLP

July 26, 2021

Prepared by: R. Jacobson

Submitted by: F. Sanchez

Approved by: Paul A. Cook



## ACTION CALENDAR

### GROUNDWATER BANKING JOINT POWERS AUTHORITY CASH CALL FUNDING APPROVAL

#### SUMMARY:

On July 16, 2021, the Groundwater Banking Joint Powers Authority (GBJPA) Board of Directors authorized its Treasurer to make a cash call to fund escrow deposits and estimated due diligence costs for three potential land purchases for the Kern Fan Groundwater Storage Project. The GBJPA Board approval included a cash call of \$450,000 each from IRWD and the Rosedale-Rio Bravo Water Storage District, for a total funding of \$900,000. Accordingly, staff recommends the IRWD Board approve the cash call request and authorize the transfer of \$450,000 from IRWD to the GBJPA bank account to initiate the land acquisition process.

#### BACKGROUND:

In April 2020, IRWD and Rosedale executed a Joint Powers Agreement to develop and administer the Kern Fan Groundwater Storage Project and create the Groundwater Banking Joint Powers Authority.

The project requires the acquisition of approximately 1,280 acres of land in Kern County. Staff from IRWD and Rosedale identified several suitable target properties to facilitate the future design and construction of the project, and the GBJPA Board approved acceptable price parameters for staff to negotiate each of the potential property purchases.

#### Land Acquisition Update / Requested Initial Funding:

The GBJPA has completed negotiations with one landowner and is near completion of negotiations with two other landowners. The price and terms for these properties were discussed with the GBJPA Board in Closed Session. If acquired, the three properties would provide approximately 464 acres for the project. Staff is currently evaluating other properties to meet the total project requirement. Each of the three potential land purchases will require a \$250,000 refundable deposit to open escrow, which would be credited toward the purchase price. Also, staff has estimated a cost of \$50,000 for each property to conduct necessary due diligence studies and title review to determine if the properties are suitable for the project.

If a property is determined to be suitable following the due diligence study, staff will provide the findings to the GBJPA Board and recommend approval to fund the purchase price and close escrow. If the GBJPA Board determines that a property is not suitable for the project, the escrow will be canceled, and the deposit will be refunded. Based on the purchase price for each property, separate IRWD Board approval would be required to fund the land acquisitions.

At its meeting on July 16, 2021, the GBJPA Board authorized its Treasurer to make a cash call of \$900,000 (\$450,000 each from IRWD and Rosedale) to facilitate the initial phase of the land acquisition process for the three properties. Staff recommends the Board approve the funding of the GBJPA's requested cash call from IRWD in the amount of \$450,000 and authorize staff to transfer funds from IRWD to the GBJPA bank account.

FISCAL IMPACTS:

Project No. 10854 is included in the FY 2021-22 Capital Budget. The existing budget includes funding for land acquisitions.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA). In compliance with CEQA, the California Public Resources Code Section 21000 et. seq., and per the California CEQA Guidelines in the Code of Regulations, Title 14, Division 6, Chapter 3, as lead agency, the Groundwater Banking Joint Powers Authority filed a Notice of Determination with the County of Kern on January 4, 2021, a Notice of Determination with the California State Clearinghouse on January 4, 2021, and a Notice of Determination with the County of Orange on January 15, 2021, for the Kern Fan Groundwater Storage Project Final Environmental Impact Report. IRWD, as a Responsible Agency, filed a Notice of Determination with the County of Kern on January 14, 2021, a Notice of Determination with the County of Orange on January 15, 2021, and with the California State Clearinghouse on January 15, 2021.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD APPROVE THE FUNDING OF THE GROUNDWATER BANKING JOINT POWERS AUTHORITY'S (GBJPA) CASH CALL IN THE AMOUNT OF \$450,000 AND AUTHORIZE STAFF TO TRANSFER FUNDS IN THE AMOUNT OF \$450,000 FROM IRWD TO THE GBJPA BANK ACCOUNT TO INITIATE THE LAND ACQUISITION PROCESS.

LIST OF EXHIBITS:

None.