

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

March 14, 2016

PLEDGE OF ALLEGIANCE

CALL TO ORDER

5:00 p.m., Board Room, District Office
15600 Sand Canyon Avenue, Irvine, California

ROLL CALL

Directors LaMar, Reinhart, Swan, Withers and President Matheis

NOTICE

If you wish to address the Board on any item, including Consent Calendar items, please file your name with the Secretary. Forms are provided on the lobby table. Remarks are limited to five minutes per speaker on each subject. Consent Calendar items will be acted upon by one motion, without discussion, unless a request is made for specific items to be removed from the Calendar for separate action.

COMMUNICATIONS TO THE BOARD

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).

PRESENTATION

3. IRWD RECOGNITION BY CALIFORNIA WATER ENVIRONMENT ASSOCIATION

IRWD is being recognized by the Santa Ana River Basin Section of the California Water Environment Association. A presentation of this recognition will be made at the Board meeting.

WORKSHOP

4. WATER RELIABILITY WORKSHOP

Staff will present the baseline scenario modeling results from IRWD's Water Reliability Study, and also will review the proposed additional scenarios that will be modeled in the study.

CONSENT CALENDAR

Resolution No. 2016-5

Items 5-13

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

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

6. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the February 8, 2016 Regular Board meeting be approved as presented.

7. 2016 LEGISLATIVE UPDATE

Recommendation: That Board authorize staff to seek amendments to AB 2304 (Levine) to protect IRWD's interests and existing efforts related to water transfers; adopt a "support" position on SB 814 (Hill); adopt a "support" position on AB 2022 (Gordon) and adopt a "support" position on H.R. 4615 (Huffman).

8. PLANNING AREA 51 HERITAGE FIELDS CAPITAL FACILITIES

Recommendation: That the Board authorize the addition of the GP-1 from Marine Way to GP-2 Domestic Water, Sewer and Recycled Water Improvement Projects 6512, 6513 and 6514 to the FY 2015-16 Capital Budget in the amount of \$335,300; \$938,300 and \$536,800 respectively; authorize the addition of the GP-2 from Bosque to GP-1 Domestic Water, Sewer and Recycled Water Improvement Projects 6536, 6537 and 6538 to the FY 2015-16 Capital Budget in the amount of \$531,300; \$333,300 and \$1,049,400 respectively; authorize budget increases for project 6016 in the amount of \$122,100, from \$34,100 to \$156,200, project 6017 in the amount of \$86,900, from \$28,600 to \$115,500, project 6018 in the amount of \$803,000, from \$609,400 to \$1,412,400; and authorize the General Manager to approve Expenditure Authorizations for projects 6016, 6017 and 6018.

CONSENT CALENDAR – Continued

Items 5-13

9. CULVER DRIVE SEWER MANHOLE IMPROVEMENTS FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the Culver Drive Sewer Manhole Improvements, project 5450; 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.

10. BAKER WATER TREATMENT PLANT CONTRACT CHANGE ORDER

Recommendation: That the Board approve Contract Change Order No. 14 in the amount of \$357,883 with PCL Construction for the Baker Water Treatment Plant, Project 5027.

11. JANUARY 2016 TREASURY REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Monthly Interest Rate Swap Summary for January 2016, and Disclosure Report of Reimbursements to Board members and staff; approve the January 2016 Summary of Payroll ACH payments in the total amount of \$1,634,115 and approve the January 2016 accounts payable Disbursement Summary of Warrants 364169 through 364864, Workers' Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$22,607,260.

12. REVISED PERSONNEL POLICIES AND PROCEDURES (PERSONNEL POLICY NO. 6)

Recommendation: That the Board adopt a resolution rescinding Resolution No. 2015-31 and establishing revised personnel policies (for Policy No. 6).

Reso. No. 2016-

13. COMMERCIAL REAL ESTATE BROKER UPDATE

Recommendation: That the Board authorize staff to execute a listing agreement with Colliers International for a 12-month period for commercial leasing services related to the 230 Commerce and the Waterworks Business Park office properties, and execute a joint listing agreement with Colliers International and Cushman & Wakefield for a six-month period for leasing services related to the future Sand Canyon Professional Center office property.

ACTION CALENDAR

14. **EMPLOYEE LOAN PROGRAM DEFERRED COMPENSATION 457 PLAN**

Recommendation: That the Board approve the amendment of IRWD's Deferred Compensation 457 Plan to allow for employee loans, with no more than one loan outstanding at one time, and utilizing the Internal Revenue Service maximum loan amount of \$50,000 or 50% of the vested balance, whichever is less, amortization of general purpose loans over five years, and loans for a primary residence amortized over 15 years.

15. **2016 REGULAR LAFCO SPECIAL DISTRICTS SEAT ELECTION**

Recommendation: That the Board authorize the District Secretary to submit the "Declaration of Qualification to Vote" form designating President Mary Aileen Matheis as IRWD's authorized voting member and Vice President Douglas Reinhart as IRWD's alternate voting member for the Orange County Special District Selection Committee election; nominate Santa Margarita Water District Director Charley Wilson as a candidate for the Regular LAFCO Special District seat; authorize President Matheis or the designated alternate to submit the "2016 Nomination Form" on behalf of Director Wilson; and authorize the District's voting member to cast the District's ballot in favor of Director Wilson.

16. **STOCKDALE WEST INTEGRATED WATER BANKING PROJECT CONSTRUCTION PHASE SERVICES CONSULTANT SELECTION**

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Dee Jaspar & Associates, Inc. in the amount of \$833,777 for construction phase services; authorize the General Manager to execute a construction contract with W.M. Lyles Company in the amount of \$9,343,964.90 for the Stockdale West Integrated Water Banking, project 3766; authorize a budget decrease in the FY 2015-16 capital budget for project 6145 in the amount of <\$2,557,500>, from \$2,557,500 to \$0; and authorize a budget increase in the FY 2015-16 capital budget for project 3766 in the amount of \$7,595,700, from \$4,744,900 to \$12,340,600.

17. **CHLORAMINE BOOSTER STATIONS AT FOOTHILL ZONE 6 AND PORTOLA ZONE 8 RESERVOIRS CONSTRUCTION AWARD**

Recommendation: That the Board authorize a budget increase in the amount of \$376,200, from \$2,501,200, to \$2,877,400 for project 4409; and authorize the General Manager to execute a construction contract with Olsson Construction in the amount of \$1,921,500 for the Chloramine Booster stations at Foothill Zone 6 and Portola Zone 8 Reservoirs, Project 4409.

ACTION CALENDAR - Continued

18. PURCHASE OF TWO COMBINATION JETTER/VACUUM TRUCKS

Recommendation: That the Board authorize the addition of \$1,232,700 to the FY 2015-16 General Plant budget for the purchase of two combination jetter/vacuum trucks.

OTHER BUSINESS

Pursuant to Government Code Section 54954.2, members of the Board of Directors or staff may ask questions for clarification, make brief announcements, 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.

19. A. General Manager's Report

B. Directors' Comments

C. CLOSED SESSION CONFERENCE WITH LEGAL COUNSEL RELATIVE TO ANTICIPATED LITIGATION - Government Code Section 54956.9(d)(2) – significant exposure to litigation (one potential case), and Government Code Section 54956.9(d)(4) – initiation of litigation (one potential case).

D. Open Session

E. Adjourn

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 Irvine Ranch Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors 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 at the entrance to the Board of Directors Room of the District Office. The Irvine Ranch Water District Board Room is wheelchair accessible. If you require any special disability-related accommodations (e.g., access to an amplified sound system, etc.), please contact the District Secretary at (949) 453-5300 during business hours at least seventy-two (72) hours prior to the scheduled meeting. This agenda can be obtained in alternative format upon written request to the District Secretary at least seventy-two (72) hours prior to the scheduled meeting.

March 14, 2016
Prepared and
Submitted by: N. Savedra
Approved by: P. Cook



CONSENT CALENDAR

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

SUMMARY:

Pursuant to Resolution 2006-29 adopted on August 28, 2006, approval of attendance of the following events and meetings are required by the Board of Directors.

Events/Meetings

Steven LaMar

1/12-13/16 NWRA 2016 Leadership Forum, Las Vegas, NV
1/27/16 ACWA Federal Legislative Committee Meeting, Sacramento, CA
2/04/16 COAST Meeting w/Orange County Fire Authority
2/18/16 Meeting with Congressman Kevin Calvert
3/03/16 ACWA Board Workshop, Sacramento, CA

Mary Aileen Matheis

2/18/16 Meeting with Congressman Kevin Calvert
3/09/16 ACWA Legislative Symposium, Sacramento, CA
2/29/16 Monthly meeting w/General Manager Paul Cook re: District Activities
3/16-17/16 Water Education Foundation Executive Briefing, Sacramento, CA

Douglas Reinhart

2/29/16 Monthly meeting w/General Manager Paul Cook re: District Activities
2/04/16 SOCWA Board Meeting
3/08/16 Presentation to Grove Mobile Home Park

Peer Swan

2/04/16 Newport Chamber of Commerce Meeting
2/17/16 OCWA Meeting
3/15/16 WACO Planning Committee Meeting
3/23/16 Southern California Water Dialogue Meeting

John Withers

2/02/16 ISDOC Executive Committee Meeting
2/23/16 UCI-California Water 2016 w/Felicia Marcus, Chair of SWRCB

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

March 14, 2016

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RECOMMENDATION:

THAT THE BOARD RATIFY/APPROVE THE MEETINGS AND EVENTS FOR STEVEN LAMAR, MARY AILEEN MATHEIS, DOUGLAS REINHART, PEER SWAN, AND JOHN WITHERS AS DESCRIBED.

LIST OF EXHIBITS:

None

March 14, 2016
Prepared and
Submitted by: L. Bonkowski
Approved by: P. Cook



CONSENT CALENDAR

MINUTES OF BOARD MEETING

SUMMARY:

Provided are the minutes of the February 8, 2016 Regular Board Meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE FEBRUARY 8, 2016 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – February 8, 2016 Minutes

EXHIBIT "A"

MINUTES OF REGULAR MEETING – FEBRUARY 8, 2016

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 Matheis on February 8, 2016 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Reinhart, LaMar, Swan, Matheis and Withers

Directors Absent: None.

Also Present: General Manager Cook, Executive Director of Engineering and Water Quality Burton, Executive Director of Finance and Administration Clary, Executive Director of Water Policy Weghorst, Executive Director of Operations Shields, Director of Treasury and Risk Management Jacobson, Director of Administration Mossbarger, Director of Water Resources Sanchez, Director of Human Resources Roney, Assistant Director of Water Operations Roberts, Legal Counsel Arneson, Secretary Bonkowski, Government Relations Officer Compton, Mr. Matthew Veeh, Ms. Amy McNulty, Mr. Jim Reed, and other members of the public and staff.

WRITTEN AND ORAL COMMUNICATIONS: None.

ITEMS RECEIVED TOO LATE: None.

CONSENT CALENDAR

On MOTION by Withers, seconded and unanimously carried, CONSENT CALENDAR ITEMS 3 THROUGH 8 WERE APPROVED AS FOLLOWS:

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

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

4. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the January 25, 2016 Regular Board meeting be approved as presented.

5. ADDENDUM NO. 2 TO THE STRAND RANCH INTEGRATED BANKING PROJECT FINAL ENVIRONMENTAL IMPACT REPORT

Recommendation: That the Board approve Addendum No. 2 to the Strand Ranch Integrated Banking Project Final Environmental Impact Report including the determinations set forth in Addendum No. 2, approve the modification to the project and authorize staff to file a Notice of Determination with the Counties of Orange and Kern as well as the state clearinghouse.

CONSENT CALENDAR (CONTINUED)

6. 2016 INDEX TENDER NOTES REMARKETING

Recommendation: That the Board approve the 2016 Index Tender Notes Remarketing Statements and adopt the following resolution by title:

RESOLUTION NO. 2016-4

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE IRVINE RANCH WATER DISTRICT APPROVING
REMARKETING STATEMENTS RELATING TO
UNSCHEDULED MANDATORY TENDERS
(REFUNDING SERIES 2011A-1 AND REFUNDING
SERIES 2011A-2)

7. RANCHO PARKWAY ZONE C RECYCLED WATER PIPELINE CONSTRUCTION
AWARD

Recommendation: That the Board authorize the General Manager to execute a construction contract with Paulus Engineering, Inc. in the amount of \$413,125 for the Rancho Parkway Zone C Recycled Water Pipeline, project 6470.

8. ON-CALL PROFESSIONAL PROGRAMMING AND NETWORKING CONSULTANT
SERVICES VARIANCE APPROVAL

Recommendation: That the Board authorize the General Manager to execute Variance No. 2 to the On-call Programming and Network Services Agreement with Outsource Technical in the amount of \$260,000.

ACTION CALENDAR

DROUGHT OUTREACH PROGRAM UPDATE AND BUDGET REQUEST

Public Relations Manager Matthew Veeh reported that a comprehensive IRWD customer drought outreach plan was developed and implemented in response to the Governor's mandate for IRWD to reduce potable water use by 16% by February 2016 and that this mandate was extended to October 31, 2016 by the Governor's November 13, 2015 Executive Order. Mr. Veeh said that regulations are currently being developed by the State Board to implement the extension with consideration of various equity adjustments. The goal of the outreach plan was to reduce outdoor water use and said that major components of the program included "*Brown is the New Green*" advertising campaign that has transitioned into the "*Color your World*" campaign. In response to Director Swan's inquiry, Mr. Veeh said that that an additional \$500,000 would fund the new drought outreach programs, water savings messages, collateral materials and promotions to be implemented in the remainder of FY 2015-16. Following discussion, on MOTION by LaMar, seconded and unanimously carried, **THE BOARD APPROVED AN ADDITIONAL \$500,000 IN FY 2015-16 OVER-ALLOCATION FUNDING FOR CUSTOMER DROUGHT OUTREACH PROGRAMS.**

WATERWISE CONSULTING AGREEMENT VARIANCE NO. 1 FOR TURNKEY TURF REMOVAL PROGRAM

General Manager Cook reported that the District's long-term water efficiency strategy includes the transformation of water intensive landscapes to drought-tolerant landscapes. Mr. Cook said that the turf removal rebate and incentive program has been a key component of the District's drought response. He said to increase participation in the turf removal rebate program, IRWD entered into an agreement with WaterWise Consulting, Inc. to implement a Turnkey Turf Removal Program.

Ms. Amy McNulty said that the continuation of the Turnkey program will help IRWD meet its state-mandated potable use reduction target and will also support the District's long-term goal of reduction in outdoor potable use through landscape transformation. She said that Variance No. 1 would amend IRWD's Non-Consultant Services Agreement with WaterWise. This variance would include: 1) increasing the program funding by \$305,000; 2) allowing participation by multi-family customers in the Department of Water Resources (DWR) grant-funded Water-Energy Residential Resource Program; 3) providing the same level of funding per square foot for multi-family participants as provided to single family participants, with a per site funding cap of \$25,000 for multi-family, consistent with the regional rebate program; and 4) incorporating changes to meet DWR requirements that include extending liability coverage to the state, and granting the state the right to inspect customer sites that will receive grant funds. Following discussion, on MOTION by LaMar, seconded and unanimously carried, **THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 1 TO THE NON-CONSULTANT SERVICES AGREEMENT BETWEEN IRWD AND WATERWISE CONSULTING, INC. IN THE AMOUNT OF \$305,000.**

FINANCIAL SYSTEM UPGRADE AND PROJECT MANAGEMENT IMPLEMENTATION CONSULTANT SELECTION

Executive Director of Finance Clary reported that in November 2013, the Board approved the consolidation of Water and Sewer Improvement Districts (IDs) which is a key part of the system configuration in the implementation of the District's Oracle Financial System in 2011 along with many other significant customizations. Ms. Clary said that staff requested two consulting firms with Oracle Financial Systems experience, KPMG and Project Partners, to review the current system configurations and make recommendations. The consultants spent time with staff reviewing and discussing the requirements, including requirements for transitioning projects from the legacy system onto Oracle. The result was a detailed analysis and report containing the requirements for implementing the Project Management module, remediating the changes necessary to implement the District's ID Consolidation configuration, and simplifying the system to utilize more standard out-of-the-box functionality. Utilization of out-of-the-box functionality will eliminate the need for several customizations made during the original implementation which requires significant staff time to support.

Executive Director of Administration Mossbarger said that a Request for Proposal was issued on August 5, 2015 to the following consultants with experience performing Oracle EBS financial systems software upgrades and implementations including Ciber, Emtec, KPMG/Project Partners, IBM, and Infosys Ltd. Mr. Mossbarger said that three proposals were

received and reviewed by a cross-functional evaluation team, and after completing a thorough evaluation of the firms based on their written proposals, KPMG (utilizing Project Partners as a strong subcontractor) was the evaluation team's top selection with Infosys as second choice. Based upon a review of the proposals, the top two firms were selected to participate in an extensive interview process. He said that based on evaluation criteria in the proposals, on site interviews and extensive reference checking, staff recommends KPMG be retained by IRWD to provide implementation services as the system integrator. Upon selection of KPMG as the finalist, the evaluation team performed further due diligence through a one and a half day solutions confirmation workshop which focused on due diligence activities to further investigate KPMG/Project Partners' proposed solutions and confirm the solution scope. He noted that the solutions confirmation workshop resulted in several changes to the original KPMG proposal for a net increase of \$281,601.

Mr. Mossbarger said that the Oracle EBS Financial software upgrade requires upgrades to existing equipment. The upgraded hardware includes servers to host the EBS production environments, and testing environments, as well as an upgrade to the Storage Area Network to house additional data. He said that the additional hardware costs required for the upgrade and implementation total \$152,000.

Mr. Mossbarger said that Outsource Technical has worked with the District since 2012, providing Oracle technical and project management contract resources. Staff has identified gaps in internal resources required for a successful implementation. Outsource Technical will provide the District with contract resources for staff augmentation to supplement District staff with the during implementation with fees of \$450,000. He further said that internal staff labor is expected to add approximately \$659,000 to the project cost. In addition to internal labor, temporary labor will be included in the FY 2016/17 operating budget to provide for resources to "backfill" for IRWD employees who will be dedicated to the project.

Director Swan reported that this item was reviewed by the Finance and Personnel Committee on February 2, 2016 and concurs with staff's recommendation. Director LaMar asked staff to provide options by June 2016 for the next fiscal year's budget. Following discussion, on MOTION by Swan, seconded and unanimously carried, THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH KPMG LLP FOR A NOT-TO-EXCEED COST OF \$2,544,000; APPROVED A CAPITAL BUDGET INCREASE OF \$838,800 EACH FOR PROJECTS 4394 AND 4395, FOR A TOTAL BUDGET INCREASE OF \$1,677,600; APPROVED THE PROCUREMENT OF HARDWARE FOR A NOT-TO-EXCEED COST OF \$152,000; AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH OUTSOURCE TECHNICAL FOR A NOT-TO-EXCEED COST OF \$450,000.

AB 1713 (EGGMAN, D-STOCKTON) – SACRAMENTO-SAN JOAQUIN DELTA

On MOTION by Swan, seconded and unanimously carried, THE BOARD ADOPTED AN "OPPOSE" POSITION ON AB 1713 (EGGMAN, D-STOCKTON) AND AUTHORIZED IRWD TO WORK WITH ITS INDUSTRY PARTNERS TO COMMUNICATE CONTINUED SUPPORT FOR THE 2009 DELTA PACKAGE AND POLICIES THAT FURTHER THE CO-EQUAL GOALS OF WATER SUPPLY RELIABILITY AND THE DELTA ECOSYSTEM.

GENERAL MANAGER'S REPORT

General Manager Cook provided the water conservation estimates for January, which he said was reduced by 5% or 6%, and noted that the District is on track with a 16.1% reduction in water use. He said that the gallon per capita per day is a little bit higher, and staff will be updating the Water Resources Policy and Communications Committee with details next month.

He said that he attended an Ocean Desalination workshop which focused on distribution alternatives. He noted that he had prepared a letter for this workshop, which had been reviewed by the District's Ocean Desalination Ad Hoc Committee, outlining the District's concerns relative to water quality issues.

Mr. Cook reported that the District is a finalist in the California Water Environmental Associations' Collection System of the Year Award. He said that David Newell, the District's consultant Bruce Newell's son, had been recognized as Fireman of the Year.

He further said that the February 23, 2016 Board meeting will be cancelled due to a lack of a quorum. The next meeting will be held on March 14th.

DIRECTORS' COMMENTS

Director LaMar reported on his attendance at a California Environmental Dialogue meeting in Sacramento that focused on watersheds and that last week, he and Consultant Bruce Newell attended an Orange County Fire Authority meeting where consultant Carol Rose was hired to assist them.

Director Withers reported on his attendance at OCSD's tour of the Santa Ana Watershed Project Authority's facility. He said that he will be attending the upcoming City of Irvine's State of the City Address, and a LAFCO meeting on Wednesday.

Director Swan reported on his attendance at a WACO meeting, a Southern California Dialogue meeting, an Ocean Desalination Committee meeting, an OCWD Board meeting, a Newport Bay Watershed Executive Committee meeting, and that tomorrow he and General Manager Cook are scheduled to speak to an Orange County Register reporter relative to ocean desalination.

Director Reinhart reported that he attended MWDOC's Board workshop with MWD Directors, a SOCWA Board meeting, and a WACO meeting.

Director Matheis reported that she will be attending the Mayor's State of the City Address this week along with the Urban Water Institute's conference in Palm Springs. She noted the upcoming ACWA Legislation conference in Washington, DC. She further said that she attended the Best and Bravest Awards which the Exchange Club of Irvine sponsored, and the the Orange Park Acres annual Board meeting.

Mr. Jim Reed, the District's consultant, reported on meetings he attended on behalf of the District.

ADJOURNMENT

President Matheis adjourned the meeting at 6:15 p.m.

APPROVED and SIGNED this 14th day of March, 2016.

President, IRVINE RANCH WATER DISTRICT

Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Legal Counsel - Bowie, Arneson, Wiles & Giannone

March 14, 2016
Prepared and
submitted by C. Compton *cc*
Approved by: Paul Cook *P. Cook*

CONSENT CALENDAR

2016 LEGISLATIVE UPDATE

SUMMARY:

This report provides an update on the 2016 legislative session and IRWD priorities. As legislation develops, staff will provide updates and recommendations to the Water Resources Policy and Communications Committee and the Board, as appropriate.

Staff recommends that the Board consider the following actions/positions:

- *AB 2304 (Levine, D-Santa Rosa) - State Water Market Exchange* — Authorize staff to seek amendments to protect IRWD’s interests and existing efforts related to water transfers;
- *SB 814 (Hill, D-San Mateo) - Drought: Excessive Water Use* — “OPPOSE UNLESS AMENDED”;
- *AB 2022 (Gordon, D-los Altos) - Bottling of Advanced Purified Demonstration Water* — “SUPPORT;”and
- *H.R. 4615 (Huffman, D-San Rafael) - The Water Conservation Tax Parity Act* — “SUPPORT”.

BACKGROUND:

The 2016 bill introduction deadline was February 19, 2016. Approximately 2,200 bills were introduced. On the Assembly side, 1,381 bills were introduced while the Senate introduced 705 bills. Many of the introduced bills contain spot or intent language; however, a number of bills include substantive proposals. With the introduction deadline having passed, the 2016 legislative year will come into full swing with policy committees ramping up and legislators working to amend their legislation so that it will be heard by the April 22 and May 6 policy committee deadlines.

A wide variety of bills have been introduced on issues of interest to IRWD including water markets and transfers; water conservation; water storage and supplies; groundwater; greywater; and recycled water. There are also a number of bills related to greenhouse gas emissions, energy, and public contracting. Many of these bills are expected to have significant amendments prior to their first policy committee hearings. As such, staff will monitor proposals and bring updates and recommendations to the Water Resources Policy and Communications Committee and the Board, as appropriate.

A copy of the 2016 State Legislative Matrix is attached as Exhibit “A”.

State Budget Update:

January's Revenue Numbers:

On February 10, 2016, State Controller Betty Yee released her monthly report on the State's finances. She announced that the State took in \$13.0 billion during the month of January. This amount was \$239.8 million lower than budgeted. The discrepancy between the budget and actual amount was due to the fact that both personal income tax and retail sales and use tax revenues were lower than anticipated. Personal income tax revenues were 2.5 percent below budget and sales tax revenues were 15.2 percent below estimates. Despite January's revenue numbers, for the first seven months of Fiscal Year 2016-17, total General Fund revenues are still ahead of budget estimates. Fiscal year revenues from July through January came in at \$530.8 million, or 0.8 percent, higher than expected.

IRWD 2016 State Legislative Priorities:

AB 1755 (Dodd, D-Napa) — The Open and Transparent Water Data Act:

AB 1755, as amended on March 1, 2016, proposes to enact the Open and Transparent Water Data Act. The act would require the Department of Water Resources (DWR) to establish a public benefit corporation responsible for developing and managing:

- A statewide water information system to integrate existing water data information from multiple autonomous databases managed by federal, state, and local agencies and academia using consistent and standardized formats, and
- An online water transfer information clearinghouse which would house a database of historic water transfers; a database of transfers pending responsible agency approval; serve as a public forum to exchange information on water market issues; and provide information to assist proponents with responsible agency approval water transfer processes.

Additionally, the bill would require DWR, the State Water Resources Control Board and the Department of Fish and Wildlife to develop protocols for sharing data amongst agencies.

Assemblymember Bill Dodd (D, Napa) states that AB 1755 is needed because "The drought has revealed California needs a modern water information system to address the [S]tate's water supply. The [S]tate does not suffer from a lack of water data, but from a lack of usable water data needed to make smart decisions. This bill will create instant and accessible water information that will better enable water managers to cope with current and future drought conditions." AB 1755 is currently in the Assembly Water, Parks and Wildlife Committee.

A copy of AB 1755 is attached as Exhibit "B".

AB 2304 (Levine, D- Santa Rosa) — State Water Market Exchange:

Assembly Water, Parks and Wildlife Chairman Marc Levin (D, Santa Rosa) introduced AB 2304 on behalf of the Environmental Defense Foundation. AB 2304 would establish the California Water Market Exchange in the Natural Resources Agency. The statewide exchange would be responsible for creating a centralized water market platform through which information regarding all transfer and exchanges of water occurring after December 31, 2017, would be recorded, and charged a fee.

Prior to a transfer or exchange occurring, the bill would require that the following information be submitted to the market exchange:

- The names of the water buyer and seller;
- The quantity of water to be transferred or exchanged;
- The price to be paid for the water transfer or exchange;
- The time and duration of the water transfer or exchange;
- The nature of the underlying right to the water proposed to be transferred or exchanged;
- The origin location and proposed place of use of the transferred or exchanged water;
- A description of the conveyance and storage facilities necessary to complete the transfer or exchange; and
- An identification of any third-party impacts that may result from the transfer or exchange.

The bill also expresses legislative intent regarding water transfers and exchanges. It states that it is the Legislature's intent that water transfer and exchanges protect and enhance environmental and community benefits including the following:

- Instream flows and ecosystem water supply;
- Improved water monitoring and data networks;
- Ecosystem restoration projects benefiting aquatic and riparian species;
- Improved drinking water supply and quality projects;
- The development of needed technical, managerial and financial capacity for disadvantaged communities; and
- Acquisition through the market exchange of need water supplies for smaller community water systems.

Moreover, the bill directs federal, state and local agencies with jurisdiction over water transfers and exchanges to "streamline and expedite review and action upon applications to transfer or exchange water and to prioritize projects that provide environmental and community benefits." Agencies are also directed to establish "standards and procedures to ensure that transfers and exchanges protect environmental and community benefits... and to encourage projects that improve environmental conditions, provide safe drinking water, and provide other community benefits."

IRWD has been an active participant on Association of California Water Agencies' Water Transfer Task Force. The District, consistent with Board-adopted policy principles, has

advocated for the development of voluntary regional water exchanges to facilitate voluntary water transfer between willing buyers and sellers consistent with existing water rights and priorities. As currently proposed, AB 2304 takes a different approach by creating a mandatory, statewide water market exchange. The approach proposed may impact the District's ongoing water banking activities.

As part of its efforts to learn more about this year's legislative activities related to water markets and transfers, staff contacted Chairman Levine's office prior to AB 2304 being introduced to learn more about the Chairman's bill. His office indicated that they are interested in IRWD's thoughts on water transfer and water markets. Chairman Levine's staff specifically asked that IRWD meet with them prior to the District adopting a position on the bill.

Staff recommends that the Board not adopt a position on the bill at this time, but authorize staff to continue discussions with the author's office regarding AB 2304 in order to seek amendments protecting IRWD's interests and existing efforts related to water transfers.

A copy of AB 2304 is attached as Exhibit "C".

SB 163 (Hertzberg, D-Van Nuys) — Wastewater Treatment: Recycled Water:

On September 3, 2015, Senator Bob Hertzberg (D, Van Nuys) amended SB 163, which had previously dealt with elections, in order to propose a 100 percent ban on ocean discharge of treated wastewater. Specifically, the bill would declare that the discharge of treated wastewater from ocean outfalls, except in compliance with the bill's provisions, is a waste and unreasonable use of water in light of the cost-effective opportunities to recycle water for further beneficial use. It would require a 50 percent reduction in ocean discharges by January 1, 2026, and a 100 percent reduction by January 1, 2036.

At the end of last year, Senator Hertzberg requested that parties concerned about SB 163 submit letters outlining their concerns to his office. Given that SB 163, if enacted as currently drafted, would affect IRWD's ability to discharge brine and treated wastewater from its plants when necessary, the Board authorized the District to submit a letter of concern to the Senator and adopted an "oppose" position on the bill. After reviewing the letters of concern, the Senator indicated that he would be open to considering suggestions on how to further water recycling in California and would be willing to discuss possible amendment to SB 163 with interested stakeholders.

Over the past few months, staff has been working with a coalition led by the California Association of Sanitation Agencies and WateReuse California which is developing an alternative proposal for Senator Hertzberg's consideration. The alternative is expected to be finalized shortly.

The California Water Conservation, Flood Control and Stormwater Management Act of 2016:

The California League of Cities, the California Association of Counties and the Association of California Water Agencies have continued work to develop a constitutional amendment to address tiered water rate structures, stormwater funding, and voluntary low-income rate

subsidization. “The California Water Conservation, Flood Control and Stormwater Management Act of 2016,” also known as the Article X proposal, was submitted by this coalition to the Attorney General’s Office on December 14, 2015. A revised version was submitted to the Attorney General’s Office on January 19, 2016. On February 18, the Attorney General’s Office released the title and summary for the proposal. If placed on the ballot the title and summary will read:

“LOCAL GOVERNMENT. WATER, SEWER, STORMWATER, AND FLOOD CONTROL SERVICES. FEE STRUCTURES. INITIATIVE CONSTITUTIONAL AMENDMENT. Establishes alternative process for local government to impose fees for water, sewer, stormwater, and flood control services, as defined, without voter approval. Authorizes fee structures that recover reasonable costs of providing service, encourage water conservation and resource management, and provide fee reductions for low-income households. Requires notice of and public hearing on proposed fees. Allows fee payers to prevent proposed fee by majority filing written protests. Prohibits use of fee revenues for other purposes. Requires independent audit of revenues and expenditures. Summary of estimate by Legislative Analyst and Director of Finance of fiscal impact on state and local government: **Increased local government revenues and spending for flood control services and stormwater management in the range of low hundreds of millions of dollars up to more than \$1 billion annually, depending on future actions by local governing boards and voters. (15-0116.)**” (www.oag.ca.gov)

The proponents of the proposal are reviewing the title and summary, and polling likely voter response. Staff will provide an oral update on any new developments.

Procedural Reform Proposal Related to Water and Sewer Rates Challenges:

The California Municipal Utilities Association (CMUA) had agreed to sponsor legislation proposing procedural reforms related to water and sewer rate challenges. Specifically, the proposal would have created an expedited and streamlined process for the legal challenge of water and sewer rates to resolve the question of legality more quickly. It would establish a 120-day challenge period for water and sewer rates; require water or sewer rate challenges to comply with local claiming procedures; and clarify how a local agency can adopt a claiming procedure. The proposal was not introduced this year. Despite the lack of a bill this year, CMUA and its members will continue discussions about how best to expedite and streamline legal challenges of water and sewer rates to resolve the question of legality more quickly.

Other 2016 State Legislation:

ACA 8 (Bloom, D- Santa Monica) — Local Government Financing Water Facilities and Infrastructure: Voter Approval:

Article XIII of the California Constitution requires a city, county or special district to obtain a 2/3 majority vote prior to levying any ad valorem tax greater than 1 percent, prior to levying a special tax, and before it incurs bonded indebtedness. ACA 8, as introduced by Assemblymember Richard Bloom (D-Santa Monica), proposes to amend these provisions of the constitution as they relate to entities funding water, stormwater and wastewater infrastructure.

ACA 8 seeks to lower the voter approval threshold for ad valorem taxes greater than one percent, special taxes, and bonded indebtedness from 66.7 percent to 55 percent if the tax or debt issuance will solely finance the construction of water, stormwater and wastewater infrastructure. Assemblymember Bloom has authored the proposed constitutional amendment on behalf of the West Basin Municipal Water District. A copy of ACA 8 is attached as Exhibit “D”.

SB 814 (Hill, D- San Mateo) — Drought: Excessive Water Use:

As introduced on January 4, 2016, SB 814 would require each urban retail water supplier to establish a local definition of excessive water use, and would prohibit excessive water use as defined by the urban water supplier during a drought. The bill would make excessive water use punishable by a fine of at least \$500 per 100 cubic feet of water used during a drought above the excessive water use limit. Furthermore, the bill would require that certain information about residential customers who violate the prohibition on excessive water use be made available to requestors under the California Public Records Act.

According to Senator Jerry Hill (D-San Mateo), the proposal is the result of a San Mateo resident’s call for a “crackdown on water guzzling households” after he had read news stories describing the household water use of a retired oil executive, a venture capitalist and a major league baseball team executive, whose household water consumption exceeded 5,000 gallons of water per day compared to the household average of 250 gallons. Senator Hill has also expressed concern that “only one water district in the state imposes penalties on households” for excessive use. The Senator’s motivation for SB 814 is that “when there are those who aren’t participating in the community’s goals [to save water] and not working toward the community benefit, then they should pay a price for that.”

As currently drafted SB 814 would impact IRWD’s ability to use its allocation-based tiered rate structure to respond to the drought and water supply shortages. Staff recommends that the Board adopt an “oppose unless amended” position on SB 814, and authorize staff to work with IRWD’s association and industry partners to obtain amendments to the bill recognizing the use allocation-based tiered rate structures as a method for discouraging excessive water use in times of drought. Staff would also seek amendments to eliminate the mandatory fine provisions for agencies using allocation-based tiered rate structures.

A copy of SB 814 is attached as Exhibit “E”.

AB 2022 (Gordon, D-los Altos) — Bottling of Advanced Purified Demonstration Water:

The WaterReuse Association of California, the Orange County Water District (OCWD) and the Orange County Sanitation District (OCSD) are co-sponsoring a proposal to permit the bottling of advanced purified reuse water for educational purposes and for the purpose of promoting water recycling. If enacted, the bill would allow OCWD to bottle water from the Groundwater Replenishment System (GWRS) for educational and demonstration purposes. Under current law, OCWD is unable to bottle GWRS water. The proposal has been introduced by Assemblymember Richard Gordon as AB 2022. Staff will recommend that the Board consider adopting a “support” position on the proposal.

A copy of AB 2022 is attached as Exhibit “F”.

2016 Federal Legislation:

H.R. 4615 (Huffman, D-San Rafael) — The Water Conservation Tax Parity Act:

On February 25, 2016, Representative Jared Huffman introduced H.R. 4615, the Water Conservation Tax Parity Act. The bill proposes amendments to the Internal Revenue Code in order to exclude the value of any water conservation or water runoff management improvement rebate or subsidy from the definition of gross income. By removing water rebates from the definition of gross income, the bill eliminates tax liability for turf replacement and other water efficiency rebates. If enacted H.R. 4615 would benefit IRWD customers. Staff recommends that the Board adopt a “support” position on H.R. 4615. A copy of H.R. 4615 is attached as Exhibit “G”.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Policy and Communications Committee on March 8, 2016.

RECOMMENDATION:

THAT BOARD AUTHORIZE STAFF TO SEEK AMENDMENTS TO AB 2304 (LEVINE) TO PROTECT IRWD’S INTERESTS AND EXISTING EFFORTS RELATED TO WATER TRANSFERS; ADOPT A “SUPPORT” POSITION ON SB 814 (HILL); ADOPT A “SUPPORT” POSITION ON AB 2022 (GORDON) AND ADOPT A “SUPPORT” POSITION ON H.R. 4615 (HUFFMAN).

LIST OF EXHIBITS:

- Exhibit “A” – IRWD Legislative Matrix
- Exhibit “B” – AB 1755 (Dodd), as amended
- Exhibit “C” – AB 2304 (Levine), as introduced
- Exhibit “D” – ACA 8 (Bloom), as introduced
- Exhibit “E” – SB 814 (Hill), as introduced
- Exhibit “F” – AB 2022 (Gordon), as introduced
- Exhibit “E” – H.R. 4615 (Huffman), as introduced

EXHIBIT "A"
IRWD 2016 LEGISLATIVE MATRIX
Updated 03/2/2016

Bill No. Author	Title	IRWD Position	Summary/Effects	Status
<u>AB 12</u> Cooley (D)	State Government: Administrative Regulations: Review		Requires each state agency after a noticed public hearing, to review the agency's regulations, identify any regulations that are duplicative, overlapping, inconsistent, or out of date, to revise those identified regulations, and report to the Legislature and Governor.	08/27/2015 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<u>AB 45</u> Mullin (D)	Household Hazardous Waste		Requires the Department of Resources Recycling to adopt model ordinance for a comprehensive program for the collection of household hazardous waste. Authorizes a local jurisdiction proposing to enact an ordinance for the collection and diversion of such waste to adopt a Department model. Requires a determination as to whether a nonprofit organization has been created and funded to make grants to local entities for purposes related to the disposal of such waste.	02/04/2016 - To SENATE Committee on ENVIRONMENTAL QUALITY.
<u>AB 259</u> Dababneh (D)	Personal Information Privacy		Requires an agency, if the agency was the source of the breach and the breach compromised a person's social security number, driver's license number, or California identification card number, to offer to provide the person with identity theft prevention and mitigation services at no cost for not less than 12 months.	08/27/2015 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<u>AB 291</u> Medina (D)	Environmental Quality Act: Local Agencies: Water		Authorizes a local agency, for certain water projects, to file a specified notice with the county clerk of the county in which the local agency's principal office is located, along with any required payment to the Department of Fish and Wildlife, and with the Office of Planning and Research and to transmit a copy of the notice to the county clerk of the counties in which the project is located. Requires the notice and the copies of the notice to be available to for public inspection. Relates to challenges.	06/10/2015 - From SENATE Committee on ENVIRONMENTAL QUALITY with author's amendments.;06/10/2015 - In SENATE. Read second time and amended. Re-referred to Committee on ENVIRONMENTAL QUALITY.
<u>AB 453</u> Bigelow (R)	Groundwater Management		Authorizes, until a groundwater sustainability plan is adopted, a local agency that has adopted a groundwater management plan to impose fees on the extraction of groundwater from a groundwater basin to fund costs of groundwater management and to collect groundwater extraction information, as long as a groundwater management plan adopted before	12/10/2015 - Re-referred to SENATE Committee on RULES.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			a specified date, is in effect.	
<u>AB 501</u> Levine (D)	Resources: Delta Research		Relates to the Sacramento-San Joaquin Delta Reform Act of 2009. Requires a person conducting State-funded Delta Research to take specified actions with regard to the sharing of the primary data, metadata, and other supporting materials created or gathered in the course of that research. Relates to ineligibility. Relates to researcher State funding eligibility requirements. Provides conditions for Delta research grants. Relates to the provision of consistent procedural and technical requirements.	02/04/2016 - To SENATE Committee on NATURAL RESOURCES AND WATER.
<u>AB 577</u> Bonilla (D)	Biomethane: Grant Program		Requires the development and implementation of a grant program to award grants for projects that produce biomethane, that build or develop collection and purification technology or infrastructure, or that upgrade or expand existing biomethane facilities. Authorizes moneys in the Greenhouse Gas Reduction Fund to be used to fund grants awarded under the program.	09/11/2015 - Re-referred to SENATE Committee on RULES.
<u>AB 590</u> Dahle (R)	Greenhouse Gas Reduction Fund		Provides that moneys in the Greenhouse Gas Reduction Fund account may be made available for expenditure by the State Energy Resources Conservation and Development Commission for maintaining the current level of biomass power generation or geothermal energy generation in the State and revitalizing currently idle facilities in strategically located regions. Establishes requirements for an applicant to receive available funding for a facility's eligible electrical generation.	08/27/2015 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<u>AB 615</u> Rendon (D)	Office of Sustainable Water Solutions: Assistance		Amends existing law that establishes the Office of Sustainable Water Solutions to promote permanent and sustainable drinking water and wastewater treatment solutions to ensure the effective and efficient provision of safe, clean, affordable, and reliable drinking water and wastewater treatment services and authorizes the office to provide technical assistance to disadvantaged communities and small drinking water systems and wastewater systems. Specifies the technical assistance that may be provided.	06/18/2015 - To SENATE Committee on ENVIRONMENTAL QUALITY.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
AB 647 Eggman (D)	Beneficial Use: Storing of Water Underground		Declares that the diversion of water to underground storage constitutes a beneficial use of water if the water so stored is thereafter applied to the beneficial purposes for which the appropriation for storage was made, or if the water is so stored consistent with a sustainable groundwater management plan, statutory authority to conduct groundwater recharge, or a judicial degree and is for specified purposes. Requires applying for a permit or petition for a change. Requires including specified conditions.	06/30/2015 - From SENATE Committee on NATURAL RESOURCES AND WATER with author's amendments.;06/30/2015 - In SENATE. Read second time and amended. Re-referred to Committee on NATURAL RESOURCES AND WATER.
AB 723 Rendon (D)	Rental Property: Plumbing Fixtures: Replacement		Requires the lease or rental agreement of a single-family residential real property or any portion of a multifamily residential real property or commercial real property that is entered into, renewed, or amended, be accompanied by a disclosure stating the property owner's responsibility to replace all noncompliant plumbing fixtures with water-conserving plumbing fixtures.	07/16/2015 - In SENATE. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.
AB 935 Salas (D)	Water Projects		Requires, upon appropriation by the Legislature, the Department of Water Resources to provide funding for certain projects, provided that certain conditions are met.	09/10/2015 - In SENATE. From third reading. To Inactive File.
AB 937 Salas (D)	Groundwater Plan/Assistance: Disadvantaged Communities		Requires the Department of Water Resources to provide technical assistance to disadvantaged communities so that they may participate in groundwater planning, including planning for regional groundwater banking, with any county or other local agency.	08/27/2015 - In SENATE Committee on APPROPRIATIONS: Held in committee.
AB 938 Rodriguez (D)	Groundwater: Basin Reprioritization		Makes nonsubstantive changes to existing law that requires the Department of Water Resources to identify the extent of monitoring of groundwater elevations that is being undertaken with each groundwater basin or subbasin and to prioritize basins or subbasins as high, medium, low, or very low priority and requires the initial priority for each basin to be established no later than a specified date.	02/11/2016 - From SENATE Committee on NATURAL RESOURCES AND WATER with author's amendments.;02/11/2016 - In SENATE. Read second time and amended. Re-referred to Committee on NATURAL RESOURCES AND WATER.
AB 954 Mathis (R)	Water and Wastewater Loan and Grant Pilot Program		Creates the Water and Wastewater Loan and Grant Program. Require the State Water Resources Control Board to establish a pilot program to provide low-interest loans and grants to local agencies for grants to	08/27/2015 - In SENATE Committee on APPROPRIATIONS: Held in committee.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			eligible individual homeowners for purposes relating to drinking water and wastewater treatment. Creates a related fund for use under the program. Transfers a specified amount of funds from the General Fund to the fund.	
<u>AB 1030</u> Ridley-Thomas S (D)	Global Warming Solutions Act of 2006: Greenhouse Gas		Amends existing law that relates to the Greenhouse Gas Reduction Fund. Requires priority be given to projects involving hiring that support the targeted training and hiring of workers from disadvantaged communities for career-track jobs.	08/27/2015 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<u>AB 1144</u> Rendon (D)	Renewables Portfolio Standard Program: Credits		Provides that renewable energy credits may be used to meet certain portfolio content requirements if the credits are earned by electricity that is generated by an entity that would be excluded from the definition of an electrical corporation by operation of the exclusions for entities employing landfill or digester gas technology that meets certain requirements, including that the electricity is used at a wastewater treatment facility. Prohibits certain marketing claims.	08/17/2015 - From SENATE Committee on APPROPRIATIONS with author's amendments.;08/17/2015 - In SENATE. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.
<u>AB 1173</u> Williams (D)	Water Equipment: Backflow Prevention Devices Testing		Requires, if a local health officer does not maintain a program for certificate of backflow prevention device testers, the testing and maintenance of such device be performed by a person who has received a California-specific certification for such devices from one of the specified entities or a similar certification provider deemed acceptable by the State Water Resources Control Board.	07/14/2015 - In SENATE Committee on ENVIRONMENTAL QUALITY: Not heard.
<u>AB 1201</u> Salas (D)	Delta: Predation by Nonnative Species	Support	Requires the State Department of Fish and Wildlife to develop a science-based plan that addresses predation by nonnative species upon species of fish listed pursuant to the State Endangered Species Act that reside all or a portion of their lives in the Sacramento-San Joaquin Delta and that considers predation reduction for all Chinook salmon and other native species not listed pursuant to the Act. Provides for input from the scientific community, water users and fishing communities.	08/27/2015 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<u>AB 1242</u>	Water Quality and		Provides provisions of law requiring a specified increase in statewide	09/02/2015 - In SENATE. Read second

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
Gray (D)	Storage		water storage capacity, and updating water strategies and implementation plans. Requires the Water Resources Control Board, in formulating policy for water quality control and adopting or approving a water quality control plan for the Sacramento-San Joaquin Delta, to take into consideration any applicable groundwater sustainability plan or alternative and available information on impacts of groundwater use and beneficial uses of water.	time. To third reading.;09/02/2015 - Re-referred to SENATE Committee on RULES.
AB 1463 Gatto (D)	Onsite Treated Water		Requires the State Water Resources Control Board, in consultation with the Department of Public Health, the Building Standards Commission, and stakeholders, to establish water quality standards and distribution, monitoring, and reporting requirements for onsite water recycling systems prior to authorizing the use of onsite treated water in internal plumbing of residential and commercial buildings. Requires onsite treated water to be considered the same as recycled water that is produced on site.	09/04/2015 - From SENATE Committee on ENVIRONMENTAL QUALITY with author's amendments.;09/04/2015 - In SENATE. Read second time and amended. Re-referred to Committee on ENVIRONMENTAL QUALITY.
AB 1550 Gomez (D)	Greenhouse Gases: Investment Plan: Communities		Requires the investment plan to allocate a minimum of 25% of the available moneys in the Greenhouse Gas Reduction Fund to projects located within disadvantaged communities and a separate and additional 25% to projects that benefit low-income households.	02/01/2016 - To ASSEMBLY Committee on NATURAL RESOURCES.
AB 1586 Mathis (R)	Environmental Quality Act: Temperance Flat Reservoir		Prohibits the court, in an action or proceeding alleging a violation of the California Environmental Quality Act, from staying or enjoining the construction or operation of the Temperance Flat Reservoir unless the court makes certain findings.	02/24/2016 - From ASSEMBLY Committee on NATURAL RESOURCES with author's amendments.;02/24/2016 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on NATURAL RESOURCES.
AB 1587 Mathis (R)	Groundwater: Subsidence Abatement		Prohibits, during a period for which the Governor has issued a proclamation of a state of emergency based on drought and flood conditions, the State Water Resources Control Board from requiring a permit to recharge groundwater if the water may be diverted and used without injury to a lawful user of water, and the water may be diverted	02/24/2016 - From ASSEMBLY Committee on WATER, PARKS AND WILDLIFE with author's amendments.;02/24/2016 - In ASSEMBLY. Read second time and

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			and used without unreasonable effect on other beneficial uses. Requires a specified report from the High-Speed Rail Authority on the subsidence of farms, homes, and land.	amended. Re-referred to Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1588</u> Mathis (R)	Water and Wastewater Loan and Grant Program		Requires the State Water Resources Control Board to establish a program to provide funding to counties to award low-interest loans and grants to eligible applicants for specified purposes relating to drinking water and wastewater treatment. Authorizes a county to apply for such funds. Creates the Water and Wastewater Loan and Grant Fund and provides that the moneys in this fund are available to the Board to administer and implement the program.	02/29/2016 - From ASSEMBLY Committee on WATER, PARKS AND WILDLIFE with author's amendments.;02/29/2016 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1589</u> Mathis (R)	Environmental Quality Act: Exemption		Exempts from the requirements of the California Environmental Quality Act, for the duration of a state of emergency proclaimed by the Governor due to drought, flood, or fire, projects that are undertaken, carried out, or approved by a public agency to mitigate the effects or, or conditions caused by, drought, flood, or fire.	02/24/2016 - From ASSEMBLY Committee on NATURAL RESOURCES with author's amendments.;02/24/2016 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on NATURAL RESOURCES.
<u>AB 1590</u> Mathis (R)	State Water Resources Control Board: Appointments		Requires that additional members be appointed to the State Water Resources Control Board by the Legislature. Requires that vacancies be immediately filled by the appointing power.	02/24/2016 - From ASSEMBLY Committee on WATER, PARKS AND WILDLIFE with author's amendments.;02/24/2016 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1647</u> Waldron (R)	Environmental Quality: Water Storage Facilities		Exempts from the Environmental Quality Act a project to expand the storage capacity of an existing surface water storage facility, or to replace an existing surface water storage facility, that is owned and operated by a public entity if that public entity adopts, by resolution, findings and declarations that the project meets specified criteria.	02/04/2016 - To ASSEMBLY Committee on NATURAL RESOURCES.
<u>AB 1649</u> Salas (D)	Water Quality, Supply, and Infrastructure Improvement		States the intent of the Legislature to enact legislation to ensure surface water storage is funded and built consistent with the goals of Proposition 1 and that the State Water Commission fulfills the original intent of the	01/12/2016 - INTRODUCED.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			water storage project provisions of Proposition 1.	
<u>AB 1694</u> Lackey (R)	Water Quality, Supply, and Infrastructure Improvement		Requires, in implementing grants for multibenefit stormwater management projects, that special consideration be given to projects that would use cisterns for water storage and flood protection. Appropriates a specified amount from the proceeds of the Water Quality, Supply, and Infrastructure Improvement Act of 2014 for the purpose of the grants for multibenefit stormwater management projects.	02/18/2016 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1704</u> Dodd (D)	Water Rights		Requires the registrant to provide a copy of the registrant's registration form to the Department of Fish and Wildlife and agree to general conditions. Requires the State Water Resources Control Board to consult with the Department of Fish and Wildlife in establishing these general conditions and include in the general conditions compliance with certain Fish and Game Code requirements applicable to the diversion of water.	02/08/2016 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1713</u> Eggman (D)	Sacramento-San Joaquin Delta: Peripheral Canal	Oppose	Prohibits the construction of a peripheral canal in the Sacramento-San Joaquin Delta unless expressly authorized by an initiative voted on by the voters of California, and requires the Legislative Analyst's Office to complete a prescribed economic feasibility analysis prior to a vote authorizing the construction of a peripheral canal.	02/18/2016 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1738</u> McCarty (D)	Building Standards: Dark Graywater		Defines dark graywater as a specified wastewater that comes from kitchen sinks and dishwashers. Requires the Department of Housing and Community Development, at the next triennial building standards rulemaking cycle, to adopt and submit for approval building standards for the construction, installation, and alteration of dark graywater systems for indoor and outdoor uses.	02/18/2016 - To ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.
<u>AB 1749</u> Mathis (R)	Environmental Quality Act: Exemption: Recycled Water		Amends the California Environmental Quality Act which exempts from its requirements projects that provide for the expansion of recycled water pipeline and directly related infrastructure within existing rights of way, and directly related groundwater replenishment, if the project does not affect wetlands or sensitive habitat where construction impacts are	02/18/2016 - To ASSEMBLY Committee on NATURAL RESOURCES.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			mitigated and undertaken to mitigate drought conditions for which a state of emergency was proclaimed to extend the date connected to such exemption.	
<u>AB 1755</u> Dodd (D)	The Open and Transparent Water Data Act		Enacts the Open and Transparent Water Data Act. Requires the Department of Water Resources to establish a public benefit corporation that would create and manage a statewide water information accounting system to improve the ability of the State to meet the growing demand for water supply reliability and healthy ecosystems that would integrate existing water data information from multiple databases and a related clearinghouse. Creates a related fund for improvement of water data and purposes of the Act.	03/01/2016 - From ASSEMBLY Committee on WATER, PARKS AND WILDLIFE with author's amendments.;03/01/2016 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1773</u> Oberholte (R)	Local Government Renewable Energy Program		Amends existing law that authorizes a local governmental entity to receive a bill credit to a designated benefiting account, for electricity exported to the electrical grid by an eligible renewable generating facility. Includes as a local governmental entity for this purpose a joint powers authority.	02/03/2016 - INTRODUCED.
<u>AB 1815</u> Alejo (D)	Global Warming Solutions Act of 2006		Requires the State Air Resources Board to prepare and post on its Internet Web site a specified report on the projects funded to benefit disadvantaged communities. Requires the board to establish a comprehensive technical assistance program, upon the appropriation of moneys from the Greenhouse Gas Reduction Fund, for eligible applicants assisting eligible communities.	02/25/2016 - To ASSEMBLY Committee on NATURAL RESOURCES.
<u>AB 1842</u> Levine (D)	Water: Pollution: Fines		Imposes a civil penalty for each gallon or pound of polluting material discharged. Requires that the civil penalty be reduced for every gallon or pound of the illegally discharged material that is recovered and properly disposed of by the responsible party.	02/25/2016 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1866</u> Wilk (R)	High-Speed Rail Bond Proceeds: Water Projects		Provides that no further bonds shall be sold for high-speed rail purposes pursuant to the Safe, Reliable High-Speed Passenger Train Bond Act for the 21st Century, except as specifically provided with respect to an	02/25/2016 - To ASSEMBLY Committees on TRANSPORTATION and WATER, PARKS AND WILDLIFE.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			existing appropriation for high-speed rail purposes for early improvement projects. Requires redirection of the unspent proceeds received from outstanding bonds issued for other high-speed rail purposes to fund capital expenditures for water projects.	
<u>AB 1871</u> Waldron (R)	Desalination		Provides that it is the intention of the Legislature that when a state agency considers an application relating to desalination that the agency, when considering alternatives, should consider the cost of those alternatives in order to ensure that project financing does not become significantly more expensive or difficult.	02/10/2016 - INTRODUCED.
<u>AB 1882</u> Williams (D)	Oil and Gas: Groundwater Monitoring		Requires the Division of Oil, Gas, and Geothermal Resources to provide an opportunity and the information necessary for the State Water Resources Control Board and the appropriate regional water quality control board to review, comment on, and propose additional requirements for Class II underground injection well projects.	02/25/2016 - To ASSEMBLY Committee on NATURAL RESOURCES.
<u>AB 1925</u> Chang (R)	Desalination Statewide Goal		Establishes a goal to desalinate specified acre-feet of drinking water by a specified year and specified acre-feet of drinking water per year by a specified year.	02/25/2016 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1928</u> Campos (D)	Water Efficiency Landscape Irrigation Equipment		Postpones the date by which the Resources Conservation and Development Commission is to adopt the performance standards and labeling requirements for landscape irrigation equipment prohibit the sale of that equipment unless it meets the performance standards and labeling requirements.	02/25/2016 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1986</u> Wilk (R)	Water Resources: Permit to Appropriate: Application		Requires if the State Water Resources Control Board has not rendered a final determination on an application for a permit to appropriate water within 20 years from the date the application was filed, to issue another notice of application and mail the notice of application.	02/25/2016 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<u>AB 1989</u> Jones (R)	Drought: Water Supply		Requires the Department of Water Resources and the State Water Resources Control Board to prepare and submit to the Legislature a	02/25/2016 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			report that includes recommendations relating to drought preparedness. Requires the department and the board to conduct an annual survey of public and private water suppliers relating to water supply reliability in the event of a drought.	
<u>AB 2022</u> Gordon (D)	Advanced Purified Demonstration Water		Authorizes the operator of a facility producing advanced purified demonstration water, to cause the water to be bottled and distributed as samples for educational purposes and to promote water recycling. Prohibits the advanced purified demonstration water from being distributed unless the water meets or is superior to all federal and state drinking water standards.	02/29/2016 - To ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.
<u>AB 2040</u> Melendez (R)	Outdoor Water Efficiency Act of 2016: Tax Credits		Allows, under the Personal Income Tax Law, a credit for a percentage of the amount paid or incurred by a qualified taxpayer for water-efficiency improvements on qualified real property in the State. Requires the qualified taxpayer to obtain and retain a certification of such improvements from the appropriate regional or local water agency after completion of the improvements and to provide a copy of this certification to the Franchise Tax Board upon request.	02/29/2016 - To ASSEMBLY Committee on REVENUE AND TAXATION.
<u>AB 2076</u> Garcia (D)	Water Recycling: Beer and Wine		Requires the State Water Resources Control Board to adopt uniform water recycling criteria for the use of recycled water in the manufacture of beer and wine.	02/29/2016 - To ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.
<u>AB 2099</u> Stone (D)	Safe Drinking Water Assistance Program		Requires the State Department of Social Services to establish and administer a safe drinking water assistance program to provide cash benefits to low-income households with inadequate access to safe drinking water so they may obtain safe drinking water. Specified what such households include. Requires the program be funded with existing Department resources. Requires the Department to deliver cash benefits through the EBT system.	02/29/2016 - To ASSEMBLY Committees on HUMAN SERVICES and ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.
<u>AB 2139</u> Williams (D)	Water Quality		Relates to State Water Resources Control Board. Requires a water quality control plan for the ocean waters of the state known as the	02/29/2016 - To ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			California Ocean Plan. Requires the state board to either amend the plan or adopt separate standards to address water quality objectives and effluent limitations that relate to carbon dioxide and pH levels within the coastal waters.	TOXIC MATERIALS.
<u>AB 2257</u> Maienschein (R)	Local Agency Meeting: Agenda: Online Posting		Amends the Ralph M. Brown Act, which enables the legislative body of a local agency to call both regular and special meetings. Requires an online posting of an agenda by a local agency to have a prominent direct link to the current agenda itself.	02/18/2016 - INTRODUCED.
<u>AB 2292</u> Gordon (D)	Communities Environmental Health Screening		Relates to communities environmental health screening. Requires the Office of Environmental Health Hazard Assessments' next update of the tool to include population density as a population characteristic.	02/18/2016 - INTRODUCED.
<u>AB 2304</u> Levine (D)	State Water Market Exchange		Establishes the State Water Market Exchange which requires the market exchange to create a centralized water market platform on its Internet Web site that provides ready access to information about water available for transfer or exchange. Requires the submission of certain data and information to the market exchange and the payment of an administrative fee to the exchange. Requires the development of specified procedures by the exchange.	02/18/2016 - INTRODUCED.
<u>AB 2389</u> Ridley- Thomas S (D)	Special Districts: District-Based Elections		Authorizes a governing body of a special district, to require, by resolution, that the election of the members of its governing body be elected using district-based elections without being required to submit the resolution to the voters for approval.	02/18/2016 - INTRODUCED.
<u>AB 2438</u> Waldron (R)	Environmental Quality Act		Relates to the Environmental Quality Act (CEQA). Exempts from CEQA a project for the construction and installation of a new pipeline or the maintenance, repair, restoration, reconditioning, relocation, replacement, removal, or demolition of an existing pipeline for the distribution of recycled water within a public street, highway, or right-of-way. Requires a public hearing.	02/19/2016 - INTRODUCED.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
<u>AB 2444</u> Garcia E (D)	Water Quality and Coastal Protection		Declares the intent of the Legislature to enact the California Water Quality, Coastal Protection, and Outdoor Access Improvement Act of 2016, which would authorize the issuance of bonds of finance a water quality, coastal protection, and outdoor access improvement program.	02/19/2016 - INTRODUCED.
<u>AB 2446</u> Gordon (D)	Natural Resources: Protection		Declares the intent of the Legislature to enact legislation that would protect the state's land and water resources.	02/19/2016 - INTRODUCED.
<u>AB 2456</u> Cooley (D)	Public Employee Retirement Benefits: Prefunding		States the intent of the Legislature to encourage state and local public employees that provide a defined benefit pension plan to their employees to effectively manage their pension contributions payments by investing surplus funds into a trust fund to be developed, established and administered by the Board of Administration of the Public Employee's Retirement System.	02/19/2016 - INTRODUCED.
<u>AB 2468</u> Hadley (R)	Public Employees' Retirement System		Authorizes a public agency that has contracted with the board of administration of PERS to offer an alternative formula from that required by the California Public Employees Pension Reform Act to be applicable to certain miscellaneous, nonsafety employees.	02/19/2016 - INTRODUCED.
<u>AB 2480</u> Bloom (D)	Source Watersheds: Maintenance and Repair		Declares it to be state policy that source watersheds are recognized and defined as integral components of California's water system, and declares that their maintenance and repair are eligible for financing on an equivalent basis with other water collection and treatment infrastructure.	02/19/2016 - INTRODUCED.
<u>AB 2550</u> Patterson (R)	Instream Flow Curtailments and Compensation		Requires the State Water Resources Control Board to financially compensate a person who is unable to divert the full amount of water authorized under his or her permit or license due to a board-issued instream flow curtailment, and a person who is required to file a statement of diversion and use is unable to divert the same amount of water in the succeeding year due to a board-issued instream flow curtailment.	02/19/2016 - INTRODUCED.
<u>AB 2551</u>	Surface Storage and		Relates to general obligation bonds to finance a water quality, supply,	02/19/2016 - INTRODUCED.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
Gallagher (R)	Design Build Contracts		and infrastructure improvement program. Authorizes surface storage projects that receive Proposition 1 funding to use the design-build method of project delivery.	
AB 2583 Frazier (D)	Sacramento San Joaquin Delta Reform Act		Relates to the Sacramento-San Joaquin Delta Reform Act of 2009, establishing the Delta Stewardship Council and the Delta Plan. Adds a definition of the California Water Fix to the act. Requires a state or local public agency that proposes an action within the boundaries of the Delta or the Suisun Marsh to submit a written certification of consistency with the Delta Plan prior to taking those actions. Deletes certain exclusions relating to the Bay.	02/19/2016 - INTRODUCED.
AB 2601 Eggman (D)	Building Standard: Residential Property: Graywater		Requires the Department of Housing and Community Development to adopt and submit to Building Standards Commission for approval amendments to the building standards adopted pursuant to these provisions that require that all new single-family and duplex residential dwelling units include specified components to allow the separate discharge of graywater for direct irrigation.	02/19/2016 - INTRODUCED.
AB 2617 Mayes (R)	Water Efficiency Measures		Requires the Energy Commission to develop and solicit comments on a proposed report, in consultation with certain subject matter experts to issue a final report that contains the projected benefits of recommended voluntary water efficiency measures and an analysis of any unintended adverse environmental impacts.	02/19/2016 - INTRODUCED.
AB 2647 Garcia E (D)	Income and Insurance Taxation: Credits: New Markets		Allows a New Markets Tax Credit under the Personal Income Tax Law and the Corporation Tax Law, and the law governing insurance taxation, in modified conformity with a federal New Markets Tax Credit, in a specified amount for investments in low-income communities. Imposes specified duties on GO-Biz with regard to an application for, and allocation of, the credit. Requires related fees to be deposited in the New Markets Tax Credit Fund to defray the cost of applying to, and administering the credits.	02/19/2016 - INTRODUCED.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
AB 2801 Gallagher (R)	Civil Procedure: Validation Actions		Amends existing law that authorizes a public agency to bring an action in court to determine the validity of certain matters within a specified time period of the existence of the matter. Deletes the prohibition on a contest of any thing or matter under these provisions being made other than within the specified time and manner, except by the public agency or its officer or agent.	02/19/2016 - INTRODUCED.
AB 2890 Alejo (D)	Drinking Water and Wastewater Operator Certification		Requires the State Water Resources Control Board to appoint an advisory committee to examine and certify people to operate water treatment plants and water distribution systems, and to review all proposed regulations and make recommendations to the Board. Relates to water treatment operator-in-training. Revises procedures for the suspension or revocation of a valid operator license. Authorizes certificate reciprocity. Provides certificate application fraud civil liability.	02/29/2016 - INTRODUCED.
ACA 8 Bloom (D)	Local Government Financing: Water Facilities: Voters		Proposes an amendment to the Constitution to create an exception to a limit for a rate imposed by a city, county, city and county, or special district to service bonded indebtedness incurred to fund the construction, reconstruction, rehabilitation, or replacement of wastewater treatment facilities and related infrastructure, potable water producing facilities and related infrastructure, nonpotable water producing facilities and related infrastructure, and stormwater treatment facilities and infrastructure.	02/18/2016 - INTRODUCED.
SB 7 Wolk (D)	Housing: Water Meters: Multi-unit Structures		Requires a landlord to make submeter disclosures to a tenant prior to executing a rental agreement. Relates to tenant billing procedures and requirements. Authorizes building standards that require the installation of water submeters in multiunit residential buildings. Provides structure exemptions. Relates to landlord requirements. Relates to the use of meters or submeters in new mixed-use residential and commercial structures as a condition for service. Requires licensed contractors do the installation.	09/08/2015 - In ASSEMBLY. Read third time. Failed to pass ASSEMBLY.;09/08/2015 - In ASSEMBLY. Motion to reconsider.
SB 20	State Water Resiliency		Creates the State Water Resiliency Investment Fund. Provides that	08/26/2015 - From ASSEMBLY

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
Pavley (D)	Investment Act		moneys in the Fund are available for the purpose of providing a more dependable water supply in the State. Creates various accounts within the Fund for prescribed purposes.	Committee on WATER, PARKS AND WILDLIFE with author's amendments.;08/26/2015 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on WATER, PARKS AND WILDLIFE.
SB 32 Pavley (D)	Global Warming Solutions Act of 2006		Requires the State Air Resources Board to approve a specified statewide greenhouse gas emission limits that are the equivalent to a specified percentage below the 1990 level to be achieved by 2030. Revises current provisions of existing law regarding the implementation of the next update of a greenhouse gas scoping plan under existing law. Requires reports regarding reaching these limits.	09/10/2015 - Re-referred to ASSEMBLY Committee on NATURAL RESOURCES.;09/10/2015 - From ASSEMBLY Committee on NATURAL RESOURCES with author's amendments.;09/10/2015 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on NATURAL RESOURCES
SB 122 Jackson (D)	Environmental Quality Act: Record of Proceedings		Amends the Environmental Quality Act. Relates to a database for the collection, storage, retrieval, and dissemination of environmental documents, notices of exemption, notices of preparation, notices of determination, and notices of completion provided to the office that shall be available online to the public through the internet. Provides for the phase-in of electronic documents. Requires the lead agency to submit to the State Clearinghouse a sufficient number of environmental documents for review.	08/27/2015 - In ASSEMBLY Committee on APPROPRIATIONS: Not heard.
SB 163 Hertzberg (D)	Wastewater Treatment: Recycled Water	Oppose	Declares the discharge of treated wastewater from ocean outfalls is a waste and unreasonable use of water in light of certain conditions. Requires such facility to achieve a specified percentage of reuse of the actual annual flow for beneficial purposes. Prohibits such discharge except as backup discharge. Provides procedures for related exemption requests. Requires a prescribed plan to meet these provisions.	09/08/2015 - Re-referred to ASSEMBLY Committee on RULES.
SB 223 Galgiani (D)	Division of Boating and Waterways: Oversight Committee		Requires the Division of Boating and Waterways to establish an advisory and oversight committee to evaluate and monitor the activities of the Division relating to the management and control or eradication of	08/27/2015 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			invasive aquatic plants. Provides the expertise of members of the committee. Requires the committee to meet a specified amount of times per year and to communicate any findings or recommendations to the Division.	
SB 248 Pavley (D)	Oil and Gas		Provides for an inspection program for all activities regulated pursuant to provisions concerning drilling, operation, maintenance, and abandonment of oil and gas wells and certain tanks and facilities. Requires inspections to be reported and posted, and the recording of information in a well history, including fluid injection, chemical composition, and waste disposal injection. Provides for shutdown. Requires updating related regulations. Requires notification and clearance of chemical injection.	08/27/2015 - In ASSEMBLY Committee on APPROPRIATIONS: Not heard.
SB 286 Hertzberg (D)	Electricity: Direct Transactions		Requires the Public Utilities Commission to adopt and implement a schedule that implements a specified phase-in period for expanding direct transactions for individual retail nonresidential end-use customers over a maximum time period, raising the allowable limit of kilowatthours that can be supplied by other electrical corporation's distribution service territory to that corporation's share of the gigawatthours. Requires such customers to be responsible for their share of the costs of specified programs.	03/01/2016 - From ASSEMBLY Committee on APPROPRIATIONS with author's amendments.;03/01/2016 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.
SB 471 Pavley (D)	Water, Energy, Reduction of Greenhouse Gas Emissions		Includes reduction of greenhouse emissions associated with water treatment among the investments that are eligible for funding from the Greenhouse Gas Reduction Fund. Requires the State Water Resources Control Board to establish a grant and loan program for water projects that result in the net reduction of water-related greenhouse gas emissions.	08/27/2015 - In ASSEMBLY. Joint Rule 62(a) suspended.;08/27/2015 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
SB 551 Wolk (D)	State Water Policy: Water and Energy Efficiency	Seek Amendments	Declares the policy of the state that water use and water treatment shall operate in a manner that is as energy efficient as in feasible and energy use and generation shall operate in a manner that is as water efficient as is feasible. Requires all relevant state agencies to consider this state	08/27/2015 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			policy when revising, or establishing policies, regulations, and grant criteria when pertinent to these uses of water and energy.	
SB 552 Wolk (D)	Public Water Systems: Disadvantaged Communities		Requires the State Water Resources Control Board to hold at least one initial public meeting prior to ordering the consolidate or extension of public water system service and to obtain the consent of any domestic well owner. Provides any affected resident and domestic well owner within the service area who does not consent is ineligible for any future water-related grant funding. Requires the Board to compensate certain water systems. Prohibits a charge increase for certain customers.	07/09/2015 - Re-referred to ASSEMBLY Committee on RULES.
SB 554 Wolk (D)	Delta Levee Maintenance		Relates to the maintenance or improvement of project or nonproject levees in the Sacramento-San Joaquin Delta. Declares legislative intent to reimburse up to a certain percent of costs incurred in any year for the maintenance or improvement of levees in excess of a specified sum per mile of levee and authorizes a specified board to advance funds in an amount that does not exceed a certain percent of the estimated state share to an eligible local agency.	01/27/2016 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
SB 814 Hill (D)	Drought: Excessive Water Use: Urban Retail Water Supply		Relates to the drought. Prohibits excessive use of water by a residential customer during a period which the Governor has issued a proclamation of a state of emergency based on drought conditions. Requires utility information about residential customers that violate the prohibition on excessive water use to be made available under the Public Records Act.	01/28/2016 - To SENATE Committees on NATURAL RESOURCES AND WATER and JUDICIARY.
SB 885 Wolk (D)	Construction Contracts: Indemnity		Specifies, for construction contracts, that a design professional only the has the duty to defend claims that arise out of, or pertain or relate to, negligence, recklessness, or willful misconduct of the design professional. Provides that a design professional would not have a duty to defend claims against any other person or entity arising from a construction project, except that person or entity's reasonable defense costs arising out of the design professional's degree of fault.	01/28/2016 - To SENATE Committee on JUDICIARY.
SB 919	Water Supply: Creation		Requires the Public Utilities Commission to adopt and implement	02/04/2016 - To SENATE Committees on

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Hertzberg (D)	or Augmentation of Local Water		policies or tariffs to address the oversupply of renewable energy resources, including, but not limited to, a tariff for use by facilities that create or augment local water supplies, like desalination, brackish water desalting, water recycling, or water reuse facilities, based on certain economic factors.	ENERGY, UTILITIES AND COMMUNICATIONS and NATURAL RESOURCES AND WATER.
SB 974 Hertzberg (D)	Local Government: Omnibus		Requires a local planning agency to review and revise the safety element to identify new information to address flooding and fires. Makes technical changes to the Fire Protection District Law of 1987. Modifies the definition of best value design-build procurement by local agencies. Makes technical changes to the Vehicle License Fee Law. Includes revenues from the liquefied petroleum and natural gas taxation within the apportionment of funds in the Highway Users Tax Account for transportation.	02/18/2016 - To SENATE Committee on GOVERNANCE AND FINANCE.
SB 995 Pavley (D)	Well Standards		Requires the Department of Water Resources to update well standards for certain types of wells based on existing knowledge. Establishes an advisory panel to identify critical gaps in existing knowledge about the best practices for well construction, alteration, maintenance, and destruction for these wells.	02/18/2016 - To SENATE Committees on NATURAL RESOURCES AND WATER and ENVIRONMENTAL QUALITY.
SB 1026 Nielsen (R)	Lake or Streambed Alteration Agreements		Relates to lake or streambed alteration agreement. Limits the diversions and obstructions governed by alteration agreement requirements to the diversions and obstructions that alter the bed, channel, or bank of a river, stream or lake. Exempts routine maintenance and repair of facilities for instream agricultural diversions.	02/25/2016 - To SENATE Committee on NATURAL RESOURCES AND WATER.
SB 1043 Allen (D)	Renewable Gas: Biogas and Biomethane		Requires the State Air Resources Board to consider and adopt policies to significantly increase the sustainable production and use of renewable gas. Requires the state board, to ensure the production and use of renewable gas provides direct environmental benefits and identify barriers to the rapid development and use of renewable gas and potential sources of funding. Revises the definition of biogas and biomethane for pipeline integrity and safety purposes.	02/25/2016 - To SENATE Committees on ENERGY, UTILITIES AND COMMUNICATIONS and ENVIRONMENTAL QUALITY.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
SB 1114 Allen (D)	Stormwater Resource Planning: Project Funding		Requires State Water Resources Control Board, to include as part of its guidance for purposes of the Stormwater Resources Planning Act, a list of potential funding sources available to a public agency to fund projects identified in a public agency's stormwater resource plan.	02/25/2016 - To SENATE Committees on NATURAL RESOURCES AND WATER and ENVIRONMENTAL QUALITY.
SB 1173 Hertzberg (D)	Water-Conserving Plumbing Fixtures		Amends existing law that requires the replacement of plumbing fixtures that are not water-conserving. Amends the definition of specified noncompliant plumbing fixtures to lower water usage thresholds.	02/18/2016 - INTRODUCED.
SB 1213 Wieckowski (D)	Renewable Energy: Biosolids: Matching Grants		Requires the Energy Resources Conservation Commission to develop and implement the Biosolids to Clean Energy Grant Program to provide matching funds to local wastewater agencies for biosolids to clean energy capital projects. Appropriates a specified amount of funds annually to the Commission for purposes of the program. Appropriates a specified amount of funds for the design and construction of a regional biosolids to clean energy project located in the San Francisco Bay.	02/18/2016 - INTRODUCED.
SB 1233 McGuire (D)	Joint Powers Authority: Water Bill Savings Act		Enacts the Water Bill Savings Act. Authorizes a joint powers authority to provide funding for a customer of a local agency or its publicly owned utility to acquire, install, or repair water efficiency improvement on the customer's property served by the local agency or its publicly owned utility.	02/18/2016 - INTRODUCED.
SB 1262 Pavley (D)	Water Supply Planning		Requires a city or county that determines a project is subject to the California Environmental Quality Act to identify any water system whose service area includes the project site and any water system adjacent to the project site. Provides that hauled water or groundwater from a probationary basin are not sources of water for the purposes of a water supply assessment. Revises the definition of sufficient water supply to include specified factors.	02/18/2016 - INTRODUCED.
SB 1263 Wieckowski	Public Water System: Permits		Relates to public water systems permits. Prohibit an application for a permit for a new public water system from being deemed complete	02/18/2016 - INTRODUCED.

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(D)			unless the applicant has submitted a preliminary technical report to the state board. Allows the state board to impose technical, financial, or managerial requirements on the permit.	
SB 1317 Wolk (D)	Conditional Use Permit		Requires a city or county overlying a basin designated as a high- or medium- priority basin to establish a process for the issuance of conditional use permits for the development of a groundwater extraction facility in order to prevent a new groundwater extraction facility from contributing to or creating an undesirable result.	02/19/2016 - INTRODUCED.
SB 1318 Wolk (D)	Local Government: Drinking Water Infrastructure		Prohibits a local agency formation commission from authorizing a city or a district to extend drinking water infrastructure or services or wastewater infrastructure or services until it has extended those services to all disadvantaged communities within or adjacent to its sphere of influence.	02/19/2016 - INTRODUCED.
SB 1340 Wolk (D)	Water Conservation in Landscaping Act		Adds to the model water efficient landscape ordinance a permit requirement for the installation, expansion, or replacement of specified automatic irrigation systems for a landscape project. Allows the governing body of a local agency to adopt an ordinance prescribing fees for filing an application for the permit, subject to the restrictions.	02/19/2016 - INTRODUCED.
SB 1383 Lara (D)	Short-Lived Climate Pollutants		Requires the State Air Resources Board to approve and implement that comprehensive strategy to reduce emissions of short-lived climate pollutants to achieve a reduction in methane by forty percent, hydro-fluorocarbon gases by forty percent, and anthropogenic black carbon by fifty percent below 2013 levels by 2030.	02/19/2016 - INTRODUCED.
SB 1415 Bates (R)	Environmental Quality Act and Water Projects		Exempts from the requirements of California Environmental Quality Act (CEQA) drought-oriented projects, proposed by one or more public agencies, or a combination of public agencies and private organizations, that have the purpose of mitigating drought conditions for which a state of emergency has been declared by the Governor.	02/19/2016 - INTRODUCED.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
<u>SB 1440</u> Cannella (R)	Water Supply and Infrastructure Improvement		Requires a lead agency, in certifying the environmental impact report and in granting approvals for certain water storage projects funded, in whole or in part, by Proposition I, to comply with specified procedures. Authorizes the lead agency to concurrently prepare the record of proceedings for the project. Requires the Judicial Council to adopt a rule of court to establish procedures applicable to actions or proceedings seeking judicial review.	02/19/2016 - INTRODUCED.
<u>SB 1456</u> Galgiani (D)	Safe Drinking Water State Revolving Fund Law		Amends an existing law which establishes the Safe Drinking Water State Revolving Fund. Authorizes certain costs to be funded by loans or other repayable financing, grants, principal forgiveness, or a combination of grants and loans or other financial assistance, regardless of whether a public water system is a community public water system or a not-for-profit noncommunity public water system.	02/19/2016 - INTRODUCED.
<u>HR 2689</u> Walters (R)	Eligible Water Resources Projects	Support	Clarifies the scope of eligible water resources projects under the Water Resources Development Act of 1986 and the Water Resources Reform and Development Act of 2014.	06/10/2015 - In HOUSE Committee on TRANSPORTATION & INFRASTRUCTURE: Referred to Subcommittee on WATER RESOURCES AND ENVIRONMENT.
<u>HR 4615</u> Huffman (D)	Water Department Gross Income Exclusion		Amends the Internal Revenue Code of 1986 to exclude from gross income amounts received from a water department for water conservation efficiency measures and water runoff management improvements.	02/25/2016 - INTRODUCED.;02/25/2016 - To HOUSE Committee on WAYS AND MEANS.
<u>S 2533</u> Feinstein (D)	Water Supplies for California and Drought Resiliency		Provides short-term water supplies to drought-stricken California, provides for long-term investments in drought resiliency throughout the Western United States.	02/10/2016 - INTRODUCED.;02/10/2016 - In SENATE. Read second time.;02/10/2016 - To SENATE Committee on ENERGY AND NATURAL RESOURCES.

EXHIBIT "B"

AMENDED IN ASSEMBLY MARCH 1, 2016

CALIFORNIA LEGISLATURE—2015–16 REGULAR SESSION

ASSEMBLY BILL

No. 1755

Introduced by Assembly Member Dodd

February 2, 2016

An act to add Part 4.9 (commencing with Section 12400) to Division 6 of the Water Code, relating to water data.

LEGISLATIVE COUNSEL'S DIGEST

AB 1755, as amended, Dodd. The Open and Transparent Water Data Act.

Existing law imposes on the Department of Water Resources various duties with respect to water in the state. Under existing law, the State Water Resources Control Board administers a water rights program pursuant to which the state board grants permits and licenses to appropriate water. Existing law regulates water transfers and authorizes a permittee or licensee to change the point of diversion, place of use, or purpose of use due to a transfer or exchange of water or water rights if certain conditions are met.

This bill would enact the Open and Transparent Water Data Act. The act would require the department to establish a public benefit corporation that would create and manage (1) a statewide water information accounting system to improve the ability of the state to meet the growing demand for water supply reliability and healthy ecosystems, that, among things, would integrate existing water data information from multiple databases and (2) an online water transfer information clearinghouse for water transfer information that would include, among other things, a database of historic water transfers and transfers pending responsible

agency approval and a public forum to exchange information on water market issues.

The act would require the department, the state board, and the Department of Fish and Wildlife to develop protocols for data sharing, documentation, quality control, public access, and promotion of open source platforms and decision support tools related to water data. ~~data and to submit to the Legislature a report on those protocols.~~ The act would specify that a recipient of state funds for research or projects relating to the improvement of water data shall adhere to those protocols or be ineligible for state funding. ~~The act would impose various other duties on the department, state board, and Department of Fish and Wildlife related to the improvement of water data, including submitting reports to the Legislature on the protocols the agencies develop and on the feasibility of creating a better surface water and groundwater monitoring network.~~

The act would create the Water Information System Administration Fund. The act would specify that moneys in the fund would be available, upon appropriation, to the department for the improvement of water data and for the purposes of the act.

Vote: majority. Appropriation: no. Fiscal committee: yes. State-mandated local program: no.

The people of the State of California do enact as follows:

1 SECTION 1. Part 4.9 (commencing with Section 12400) is
2 added to Division 6 of the Water Code, to read:

3
4 PART 4.9. THE OPEN AND TRANSPARENT WATER DATA
5 ACT

6
7 CHAPTER 1. GENERAL PROVISIONS

8
9 12400. This part shall be known, and may be cited, as the Open
10 and Transparent Water Data Act.

11 12401. The Legislature finds and declares all of the following:
12 (a) The recent drought reveals that California needs a real-time,
13 accessible statewide water information-accounting system to help
14 water managers operate California's water system more effectively
15 and help water users make informed decisions based on water
16 availability and allocation.

1 (b) California has a number of databases containing information
2 on hydrology, biology, water quality, the physical environment,
3 and water rights and use. The passage of the Sustainable
4 Groundwater Management Act (Part 2.74 (commencing with
5 Section 10720)) will result in more data on groundwater use and
6 availability. Unfortunately, current water data is often challenging
7 to obtain, outdated, and not always readily available to water
8 managers and the public due to its collection by numerous entities
9 and storage in disparate databases that often rely on tools that do
10 not keep pace with technological advances.

11 ~~(c) The ability to measure stream flow is hampered for some~~
12 ~~streams that lack gauges.~~

13 ~~(d)~~

14 (c) The need to account for California’s water is essential, yet
15 water managers must make decisions about water resources while
16 relying on outdated and incomplete information. A greater
17 understanding of and ability to access existing water data will
18 support more timely and science-based decisions related to water
19 planning, water allocations, water transfers, and water use
20 efficiency that will lead California to a more sustainable water
21 future.

22 (e)

23 (d) On October 2, 2015, the Delta Stewardship Council released
24 a white paper entitled “Enhancing the Vision for Managing
25 California’s Environmental Information.” The white paper and the
26 Environmental Data Summit were a collaborative effort of the
27 Delta Stewardship Council and its Delta Science Program, the
28 Department of Water Resources, the Sacramento-San Joaquin
29 Delta Conservancy, the State Water Resources Control Board, the
30 Department of Fish and Wildlife, the San Francisco Estuary
31 Institute, the State and Federal Contractors Water Agency, and 34
32 North. The white paper recommended four necessary actions to
33 achieve the goal of streamlining the collaboration of huge amounts
34 of environmental data between various state and federal agencies
35 and identified the need for new policies for managing California’s
36 large amounts of data: development of a system where data could
37 be accessed from a centralized source, implementing new methods
38 for clear documentation of existing data, and developing business
39 models that will better facilitate the management of data.

40 (f)

1 (e) The California Water Plan Update 2013, Volume 1, Chapter
2 6 6, entitled “Integrated Data and Analysis: Informed and
3 Transparent ~~Decision-Making~~” *Decision-Making*, ” describes key
4 actions needed to improve water resources information and analysis
5 for integrated water management and urges agencies that collect
6 data to work together to prioritize and align water resources
7 information that is collected by multiple agencies.

8 ~~(g)~~

9 (f) The California Water Action Plan recognizes the need to
10 take bold action to transfer the state’s water management system
11 to face the challenges of the 21st century. Climate change,
12 population growth, and vulnerable ecosystems create greater
13 uncertainty in future water availability. To address these challenges
14 California needs to do both of the following:

15 (1) Invest in a 21st century water management system that can
16 adapt to wide variations in rainfall.

17 (2) Safeguard and restore California’s freshwater ecosystems
18 so they can withstand variations in climate and competing demands
19 for water.

20 ~~(h)~~

21 (g) Standards for transparent access to data have changed with
22 the public demanding real-time information on demand. However,
23 the demand for available data currently outstrips the ability to
24 deliver information to water managers and the public.

25 ~~(i)~~

26 (h) Clear data standards and protocols help to promote
27 compatibility among datasets, allowing for sharing, aggregation,
28 and analysis by multiple groups.

29 ~~(j)~~

30 (i) Metadata summarizes basic information about data, which
31 can make finding and working with particular data easier. Clear
32 documentation of metadata avoids misunderstandings, reduces
33 disputes, and increases the effectiveness of management decisions.

34 ~~(k)~~

35 (j) Water data and research that is gathered using state funds
36 should be made publicly accessible. State delegation of data
37 management to contractors should not result in the public losing
38 access to its own information.

39 ~~(l)~~

1 (k) The availability of cheap and open-source tools could help
2 produce an online water transfer information clearinghouse without
3 the need to create an expensive new centralized database.

4 (m)

5 (l) An effective water market is one of several water
6 management tools needed to improve the state's water supply
7 reliability.

8 12402. Unless the context otherwise requires, the following
9 definitions govern the construction of this part:

10 (a) "Clearinghouse" means the online water transfer information
11 clearinghouse created pursuant to Section 12415.

12 (b) "Department" means the Department of Water Resources.

13 (c) "Metadata" means data that describes data.

14 (d) "NGO" means a nongovernmental organization.

15 (e) "State board" means the State Water Resources Control
16 Board.

17 (f) "Water information system" means the statewide water
18 information-accounting system created pursuant to Section 12410.

19
20 CHAPTER 2. PUBLIC BENEFIT CORPORATION PARTICIPATION

21
22 Article 1. General Provisions

23
24 12405. (a) The department shall establish a public benefit
25 corporation to house, manage, and oversee the statewide water
26 information-accounting system created pursuant to Section 12410
27 and the online water transfer information clearinghouse created
28 pursuant to Section 12415.

29 (b) The public benefit corporation may, notwithstanding any
30 other law and not subject to otherwise applicable provisions of the
31 Government Code and Public Contract Code, operate the water
32 information system and the clearinghouse on its own, through a
33 third party, or by engaging the services of private consultants,
34 educational institutions, and NGOs to render professional and
35 technical assistance with and advice for carrying out creation and
36 management activities.

37 (c) To the extent permitted by federal law, the public benefit
38 corporation may receive gifts, grants, or donations of moneys from
39 any agency of the federal government, any agency of the state, or
40 any municipality, county, or other political subdivision thereof, or

1 from any individual, association, foundation, or corporation for
2 achieving any of the purposes of this part. These moneys shall be
3 deposited in the Water Information System Administration Fund
4 created pursuant to Section 12425.

5
6 Article 2. Statewide Water Information-~~Accounting~~ System
7

8 12410. (a) The public benefit corporation established pursuant
9 to Section 12405 shall establish a statewide water information
10 ~~accounting~~ system to improve the ability of the state to meet the
11 growing demand for water supply reliability and healthy
12 ecosystems. The public benefit corporation shall create the water
13 information-~~accounting~~ system in collaboration with state and
14 federal agencies, water data users, and water experts.

15 (b) The water information-~~accounting~~ system shall, at a
16 minimum, do all of the following:

17 (1) Integrate existing water data information from multiple
18 autonomous databases managed by federal, state, and local agencies
19 and academia using consistent and standardized formats.

20 (2) Integrate, at a minimum, the following datasets:

21 (A) The department's information on State Water Project
22 reservoir operations, groundwater use, and groundwater levels
23 through California Statewide Groundwater Elevation Monitoring
24 (CASGEM), urban water use, and land use.

25 (B) The state board's data on water rights, water diversions,
26 and water quality through California Environmental Data Exchange
27 Network (CEDEN).

28 (C) The Department of Fish and Wildlife's information on fish
29 abundance and distribution.

30 (D) The United States Geological Survey's-~~stream-flow~~
31 *streamflow* conditions information through the National Water
32 Information System.

33 (E) The United States Bureau of Reclamation's federal Central
34 Valley Project operations information.

35 (F) The United States Fish and-~~Wildlife's~~, *Wildlife Service's*,
36 United States Forest Service's, and National Oceanic and
37 Atmospheric Administration Fisheries' fish abundance information.

38 (3) Incorporate clear and careful documentation of data quality
39 and data formats through metadata.

1 (4) Adhere to data protocols developed by state agencies
2 pursuant to Section 12420.

3 (5) Be able to receive both spatial and time series data from
4 various sources.

5 (6) Enable custom dashboards, visualizations, graphing, and
6 analysis.

7
8 Article 3. Online Water Transfer Information Clearinghouse

9
10 12415. The public benefit corporation established pursuant to
11 Section 12405 shall establish an online water transfer information
12 clearinghouse for water transfer information that shall include all
13 the following:

14 (a) A database of historic water transfers and transfers pending
15 responsible agency approval.

16 (b) A public forum to exchange information on water market
17 issues.

18 (c) Information to assist proponents with responsible agency
19 approval water transfer processes.

20
21 CHAPTER 3. STATE AGENCY RESPONSIBILITIES

22
23 12420. (a) The department, the state board, and the Department
24 of Fish and Wildlife shall develop an open, transparent process to
25 develop protocols for data sharing, documentation, quality control,
26 public access, and promotion of open source platforms and decision
27 support tools related to water data. The agencies shall develop and
28 submit to the Legislature, in compliance with Section 9795 of the
29 Government Code and before the establishment of a statewide
30 water information-accounting system pursuant to Section 12410,
31 a report describing these processes and protocols.

32 (b) Grant recipients for research or projects relating to the
33 improvement of water data that receive state funds shall adhere to
34 the protocols developed by state agencies pursuant to subdivision
35 (a) for data sharing, transparency, documentation, and quality
36 control.

37 (c) A researcher or grant recipient that does not comply with
38 subdivision (b) is not eligible for state funding until the researcher
39 or grant recipient complies with those requirements.

1 ~~12421. (a) The department, the state board, and the Department~~
2 ~~of Fish and Wildlife shall, by _____, prepare and submit to the~~
3 ~~Legislature in compliance with Section 9795 of the Government~~
4 ~~Code a report that identifies priority basins and subbasins that need~~
5 ~~additional surface water or groundwater monitoring sites, evaluates~~
6 ~~the feasibility of creating a better surface water and groundwater~~
7 ~~monitoring network, and estimates the cost of and provides options~~
8 ~~for funding the water information system.~~

9 ~~(b) The department shall develop both of the following:~~

10 ~~(1) A consistent method for estimating groundwater budgets.~~

11 ~~(2) A system for forecasting water supply availability and~~
12 ~~subbasin flows during wet, average, and dry periods.~~

13 ~~12422. The state board shall do all of the following:~~

14 ~~(a) Develop a consistent and documented approach for~~
15 ~~estimating wet, average, and dry year water availability based on~~
16 ~~existing water use data collected from all surface water right~~
17 ~~holders that are required to file statements of diversion and use,~~
18 ~~including riparian and pre-1914 appropriative rights, and, where~~
19 ~~available, groundwater use information.~~

20 ~~(b) (1) Require surface water right holders to electronically~~
21 ~~report return flow quantities and develop criteria for the reporting~~
22 ~~frequency that is required for different water rights holders.~~

23 ~~(2) The state board may adopt a policy that requires more~~
24 ~~frequent monitoring and reporting from water right holders with~~
25 ~~water rights that are more likely to affect water availability than~~
26 ~~others.~~

27 ~~(c) (1) Set and make public other water allocation priorities~~
28 ~~and quantities for wet, average, and dry periods for the environment~~
29 ~~and public health and safety.~~

30 ~~(2) Categories of environmental flows shall include all of the~~
31 ~~following:~~

32 ~~(A) Biological opinions pursuant to the federal Endangered~~
33 ~~Species Act of 1973 (16 U.S.C. Sec. 1531 et seq.).~~

34 ~~(B) Federal Clean Water Act (33 U.S.C. Sec. 1251 et seq.) flows~~
35 ~~for water quality.~~

36 ~~(C) Federal Migratory Bird Treaty Act (16 U.S.C. Sec. 703 et~~
37 ~~seq.) requirements for wetlands.~~

38 ~~(D) Section 5937 of the Fish and Game Code, which requires~~
39 ~~fish flows downstream of dams.~~

1 ~~12423. The Department of Fish and Wildlife shall share fish~~
2 ~~and stream habitat data for inclusion in the water information~~
3 ~~accounting system established by Section 12410.~~

4
5 CHAPTER 4. WATER INFORMATION SYSTEM ADMINISTRATION
6 FUND
7

8 12425. The Water Information System Administration Fund
9 is hereby created. All moneys in the fund are available, upon
10 appropriation, to the department for the improvement of water
11 data, including installing stream gauges and maintaining stream
12 gauge networks, and for the purposes of this part, including, but
13 not limited to, maintaining surface water and groundwater
14 monitoring networks, establishing and operating the public benefit
15 corporation created pursuant to Section 12405, maintaining and
16 updating the statewide water information-accounting system and
17 online water transfer information clearinghouse, including the cost
18 to verify data, and modernizing water information databases.

O

EXHIBIT "C"

CALIFORNIA LEGISLATURE—2015–16 REGULAR SESSION

ASSEMBLY BILL

No. 2304

Introduced by Assembly Member Levine

February 18, 2016

An act to add Chapter 7.5 (commencing with Section 485) to Division 1 of the Water Code, relating to water.

LEGISLATIVE COUNSEL'S DIGEST

AB 2304, as introduced, Levine. California Water Market Exchange.

Existing law, the Costa-Isenberg Water Transfer Act of 1986, requires the Department of Water Resources to establish an ongoing program to facilitate the voluntary exchange or transfer of water and implement the various laws that pertain to water transfers. The act requires the department to create and maintain a list of entities seeking to enter into water supply transfers, leases, exchanges, or other similar arrangements and to maintain a list of the physical facilities that may be available to carry out water supply transfers. The act requires the department to prepare a water transfer guide with prescribed components.

This bill would establish the California Water Market Exchange, governed by a 5-member board, in the Natural Resources Agency. This bill would require the market exchange, on or before December 31, 2017, to create a centralized water market platform on its Internet Web site that provides ready access to information about water available for transfer or exchange. This bill, for all transfers and exchanges of water occurring on or after January 1, 2018, would require the submission of certain data and information to the market exchange and the payment of an administrative fee to the market exchange, as specified. This bill would require the market exchange to develop specified procedures in consultation with federal, state, and local agencies.

Vote: majority. Appropriation: no. Fiscal committee: yes.
State-mandated local program: no.

The people of the State of California do enact as follows:

1 SECTION 1. It is the intent of the Legislature in creating the
2 California Water Market Exchange that the market exchange do
3 all of the following:

4 (a) Create water sustainability, resiliency, and adaptability to
5 drought and climate change.

6 (b) Provide important benefits and opportunities for
7 disadvantaged communities and environmental resources.

8 (c) Increase transparency and decisionmaking capacity by better
9 integrating data collection and reporting.

10 (d) Facilitate water transfers and exchanges by the establishment
11 of a centralized exchange platform and streamline review and
12 approval processes.

13 (e) Enable and encourage public and private investments in
14 water use efficiency measures through participation in water
15 transfers and exchanges.

16 (f) Provide water transfers and exchanges as an effective
17 mechanism for sustainable management of surface and groundwater
18 resources in the state.

19 SEC. 2. Chapter 7.5 (commencing with Section 485) is added
20 to Division 1 of the Water Code, to read:

21

22 CHAPTER 7.5. CALIFORNIA WATER MARKET EXCHANGE

23

24 485. This chapter shall be known, and may be cited, as the
25 California Water Market Exchange Act of 2016.

26 486. The following definitions govern the construction of this
27 chapter:

28 (a) "Disadvantaged community" has the same meaning as
29 defined in Section 79505.5.

30 (b) "Market exchange" means the California Water Market
31 Exchange established in Section 487.

32 (c) "Small community water system" has the same meaning as
33 defined in Section 116275 of the Health and Safety Code.

34 487. (a) The California Water Market Exchange is hereby
35 established in the Natural Resources Agency.

1 (b) The market exchange shall be governed by a five-member
2 board, composed as follows:

3 (1) The Secretary of the Natural Resources Agency.

4 (2) Four individuals appointed by the Governor.

5 (c) Each board member appointed by the Governor shall hold
6 office for a term of four years. The Governor shall stagger the
7 terms of the initial members appointed. A vacancy shall be filled
8 by the Governor by appointing a member to serve the remainder
9 of the term.

10 488. (a) On or before December 31, 2017, the market exchange
11 shall create a centralized water market platform on its Internet
12 Web site that provides ready access to information about water
13 available for transfer or exchange. The platform shall be readily
14 available to the public and contain all data and information
15 collected by the market exchange in order to ensure transparency
16 of information regarding the quantities of water available for
17 transfer or exchange and the prices paid for transferred or
18 exchanged water.

19 (b) Before a transfer or exchange of water, the market exchange
20 shall require the submission of data and information that includes,
21 but is not limited to, all of the following:

22 (1) The names of the water buyer and seller.

23 (2) The quantity of water to be transferred or exchanged.

24 (3) The price to be paid for the water transfer or exchange.

25 (4) The time and duration of the water transfer or exchange.

26 (5) The nature of the underlying right to the water proposed to
27 be transferred or exchanged.

28 (6) The origin location and proposed place of use of the
29 transferred or exchanged water.

30 (7) A description of the conveyance and storage facilities
31 necessary to complete the transfer or exchange.

32 (8) An identification of any third-party impacts that may result
33 from the transfer or exchange.

34 (c) After a transfer or exchange of water, the market exchange
35 shall require the submission of data and information that includes,
36 but is not limited to, all of the following:

37 (1) The quantity of water transferred or exchanged.

38 (2) The conveyance and storage facilities used to complete the
39 water transfer or exchange.

40 (3) The time and duration of the water transfer or exchange.

- 1 489. The Legislature intends that water transfers and exchanges
2 protect and enhance environmental and community benefits that
3 include the following:
- 4 (a) Instream flows and ecosystem water supply.
 - 5 (b) Improved water monitoring and data networks.
 - 6 (c) Ecosystem restoration projects benefitting aquatic and
7 riparian species.
 - 8 (d) Improved drinking water supply and quality projects.
 - 9 (e) Development of needed technical, managerial, and financial
10 capacity for disadvantaged communities.
 - 11 (f) Acquisition through the market exchange of needed water
12 supplies for small community water systems.
- 13 490. On or before December 31, 2017, the market exchange
14 shall do both of the following:
- 15 (a) Develop procedures, in consultation with federal, state, and
16 local agencies with jurisdiction over water transfers or exchanges,
17 to streamline and expedite review and action upon applications to
18 transfer or exchange water and to prioritize projects that provide
19 environmental and community benefits as described in Section
20 489. The procedures shall recommend types of transfers and
21 exchanges that could be more routinely approved.
 - 22 (b) Establish standards and procedures to ensure that transfers
23 and exchanges protect environmental and community benefits
24 consistent with Section 489 and to encourage projects that improve
25 environmental conditions, provide safe drinking water, and provide
26 other community benefits.
- 27 491. (a) Anyone submitting information pursuant to
28 subdivision (b) or (c) of Section 488 shall pay an administrative
29 fee, established by the market exchange, to recover the reasonable
30 costs of the market exchange in administering this chapter.
- 31 (b) Fees imposed pursuant to subdivision (a) shall be deposited
32 in the California Water Market Exchange Fund that is hereby
33 created in the State Treasury. Moneys in the fund shall be available,
34 upon appropriation by the Legislature, to the market exchange for
35 the purposes of this chapter.
- 36 492. (a) This chapter applies in addition to any other law
37 relating to water transfers and exchanges.

- 1 (b) This chapter applies to all transfers and exchanges of water
- 2 occurring on or after January 1, 2018.

O

EXHIBIT "D"

CALIFORNIA LEGISLATURE—2015–16 REGULAR SESSION

Assembly Constitutional Amendment

No. 8

Introduced by Assembly Member Bloom

February 18, 2016

Assembly Constitutional Amendment No. 8—A resolution to propose to the people of the State of California an amendment to the Constitution of the State, by amending Sections 1 and 4 of, and by adding Section 4.5 to, Article XIII A thereof, by amending Section 2 of Article XIII C thereof, by amending Section 3 of Article XIII D thereof, and by amending Section 18 of Article XVI thereof, relating to water facilities and infrastructure.

LEGISLATIVE COUNSEL'S DIGEST

ACA 8, as introduced, Bloom. Local government financing: water facilities and infrastructure: voter approval.

(1) The California Constitution prohibits the ad valorem tax rate on real property from exceeding 1% of the full cash value of the property, subject to certain exceptions.

This measure would create an additional exception to the 1% limit for a rate imposed by a city, county, city and county, or special district to service bonded indebtedness incurred to fund the construction, reconstruction, rehabilitation, or replacement of wastewater treatment facilities and related infrastructure, potable water producing facilities and related infrastructure, nonpotable water producing facilities and related infrastructure, and stormwater treatment facilities and related infrastructure, that is approved by 55% of the voters of the city, county, city and county, or special district, as applicable, if the proposition meets specified requirements, and would authorize a city, county, city and county, or special district to levy a 55% vote ad valorem tax.

(2) The California Constitution conditions the imposition of a special tax by a city, county, or special district upon the approval of $\frac{2}{3}$ of the voters of the city, county, or special district voting on that tax, and prohibits these entities from imposing an ad valorem tax on real property or a transactions or sales tax on the sale of real property.

This measure would instead condition the imposition, extension, or increase of a special tax by a city, county, city and county, or special district for the purpose of funding wastewater, stormwater, and water treatment, supply and delivery facilities and infrastructure, upon the approval of 55% of its voters voting on the proposition, if the proposition meets specified requirements. This measure would also make conforming changes to related provisions.

(3) The California Constitution prohibits specified local government agencies from incurring any indebtedness exceeding in any year the income and revenue provided in that year, without the assent of $\frac{2}{3}$ of the voters and subject to other conditions. In the case of a school district, community college district, or county office of education, the California Constitution permits a proposition for the incurrence of indebtedness in the form of general obligation bonds for the construction, reconstruction, rehabilitation, or replacement of school facilities, including the furnishing and equipping of school facilities, or the acquisition or lease of real property for school facilities, to be adopted upon the approval of 55% of the voters of the district or county, as appropriate, voting on the proposition at an election.

This measure would similarly lower to 55% the voter-approval threshold for a city, county, or city and county to incur bonded indebtedness, exceeding in any year the income and revenue provided in that year, that is in the form of general obligation bonds issued to fund the construction, reconstruction, rehabilitation, or replacement of wastewater treatment facilities and related infrastructure, potable water producing facilities and related infrastructure, nonpotable water producing facilities and related infrastructure, and stormwater treatment facilities and related infrastructure.

Vote: $\frac{2}{3}$. Appropriation: no. Fiscal committee: no.
State-mandated local program: no.

- 1 *Resolved by the Assembly, the Senate concurring,* That the
- 2 Legislature of the State of California at its 2015–16 Regular
- 3 Session commencing on the first day of December 2014, two-thirds
- 4 of the membership of each house concurring, hereby proposes to

1 the people of the State of California, that the Constitution of the
2 State be amended as follows:

3 First— That Section 1 of Article XIII A thereof is amended to
4 read:

5 SECTION 1. (a) The maximum amount of any ad valorem
6 tax on real property shall not exceed ~~One 1 percent (1%)~~ of the
7 full cash value of ~~such~~ *that* property. The ~~one 1 percent (1%)~~ tax
8 ~~to~~ *shall* be collected by the counties and apportioned according to
9 law to the districts within the counties.

10 (b) The limitation provided for in subdivision (a) shall not apply
11 to ad valorem taxes or special assessments to pay the interest and
12 redemption charges on any of the following:

13 (1) Indebtedness approved by the voters prior to July 1, 1978.

14 (2) Bonded indebtedness ~~for to fund~~ the acquisition or
15 improvement of real property approved on or after July 1, 1978,
16 by two-thirds of the votes cast by the voters voting on the
17 proposition.

18 (3) Bonded indebtedness incurred by a school district,
19 community college district, or county office of education for the
20 construction, reconstruction, rehabilitation, or replacement of
21 school facilities, including the furnishing and equipping of school
22 facilities, or the acquisition or lease of real property for school
23 facilities, approved by 55 percent of the voters of the district or
24 county, as appropriate, voting on the proposition on or after ~~the~~
25 ~~effective date of the measure adding this paragraph.~~ *November 8,*
26 *2000.* This paragraph shall apply only if the proposition approved
27 by the voters and resulting in the bonded indebtedness includes
28 all of the following accountability requirements:

29 (A) A requirement that the proceeds from the sale of the bonds
30 be used only for the purposes specified in ~~Article XIII A, Section~~
31 ~~1(b)(3);~~ *this paragraph* and not for any other purpose, including
32 teacher and administrator salaries and other school operating
33 expenses.

34 (B) A list of the specific school facilities projects to be funded
35 and certification that the school district board, community college
36 board, or county office of education has evaluated safety, class
37 size reduction, and information technology needs in developing
38 that list.

39 (C) A requirement that the school district board, community
40 college board, or county office of education conduct an annual,

1 independent performance audit to ensure that the funds have been
2 expended only on the specific projects listed.

3 (D) A requirement that the school district board, community
4 college board, or county office of education conduct an annual,
5 independent financial audit of the proceeds from the sale of the
6 bonds until all of those proceeds have been expended for the school
7 facilities projects.

8 (4) (A) *Bonded indebtedness, approved by 55 percent of the*
9 *voters of the city, county, city and county, or special district, as*
10 *appropriate, voting on the proposition on or after the effective*
11 *date of the measure adding this paragraph, incurred by a city,*
12 *county, city and county, or special district to fund the construction,*
13 *reconstruction, rehabilitation, or replacement of wastewater*
14 *treatment facilities and related infrastructure, potable water*
15 *producing facilities and related infrastructure, nonpotable water*
16 *producing facilities and related infrastructure, and stormwater*
17 *treatment facilities and related infrastructure. This paragraph*
18 *shall apply only if the proposition approved by the voters and*
19 *resulting in the bonded indebtedness includes all of the following*
20 *accountability requirements:*

21 (i) *A requirement that the proceeds from the sale of the bonds*
22 *be used only for the purposes specified in this paragraph and not*
23 *for any other purpose.*

24 (ii) *A list of any and all specific facilities and projects to be*
25 *funded.*

26 (iii) *A requirement that the governing board of the city, county,*
27 *city and county, or special district conduct an annual independent*
28 *performance audit to ensure that the funds have been expended*
29 *only on the specific projects listed.*

30 (iv) *A requirement that the governing board of the city, county,*
31 *city and county, or special district conduct an annual independent*
32 *financial audit of the proceeds from the sale of the bonds until all*
33 *of those proceeds have been expended for the projects identified.*

34 (B) *For purposes of this paragraph, "special district" has the*
35 *same meaning as that term is used in subdivision (c) of Section 1*
36 *of Article XIII C, excluding a school district and redevelopment*
37 *agency.*

38 (c) *Notwithstanding any other provisions of law or of this*
39 *Constitution, school districts, community college districts, and*

1 county offices of education may levy a 55 percent vote ad valorem
2 tax pursuant to *paragraph (3) of subdivision (b)*.

3 *(d) Notwithstanding any other provisions of law or of this*
4 *Constitution, a city, county, city and county, or special district*
5 *may levy a 55 percent vote ad valorem tax pursuant to paragraph*
6 *(4) of subdivision (b).*

7 Second— That Section 4 of Article XIII A thereof is amended
8 to read:

9 ~~SEC. 4. Cities, Counties and special districts. Except as~~
10 ~~provided by Section 4.5, a city, county, or special district, by a~~
11 ~~two-thirds vote of the qualified electors of such district, its voters~~
12 ~~voting on the proposition, may impose special taxes on such~~
13 ~~district, a special tax within that city, county, or special district,~~
14 ~~except an ad valorem taxes tax on real property or a transaction~~
15 ~~transactions tax or sales tax on the sale of real property within~~
16 ~~such City, County that city, county, or special district.~~

17 Third— That Section 4.5 is added to Article XIII A thereof,
18 to read:

19 SEC. 4.5. (a) The imposition, extension, or increase of a special
20 tax by a city, county, city and county, or special district, as may
21 otherwise be authorized by law for the purpose of funding
22 wastewater, stormwater, and water treatment, supply and delivery
23 facilities and infrastructure projects, is subject to approval by 55
24 percent of the voters in the city, county, city and county, or special
25 district, as applicable, voting on the proposition, if all of the
26 following conditions are met:

27 (1) The proposition is approved by a majority vote of the
28 membership of the governing board of a city, county, city and
29 county, or special district.

30 (2) The proposition contains all of the following accountability
31 requirements:

32 (A) A list of the specific projects that are to be funded.

33 (B) A requirement that the proceeds be used only for the projects
34 specified in the proposition, and not for any other purpose.

35 (C) To ensure compliance with subparagraph (B), a requirement
36 that the governing board of a city, county, city and county, or
37 special district conduct an annual, independent financial audit of
38 the amount of special tax proceeds collected and expended, and
39 the specified projects funded.

1 (D) To ensure compliance with subparagraph (B), a requirement
 2 that the governing board of a city, county, city and county, or
 3 special district establish a citizens' oversight committee to review
 4 all expenditures of proceeds and financial audits, and report its
 5 findings to the governing board and to the public.

6 (b) For purposes of this section, "wastewater, stormwater, and
 7 water treatment, storage, supply, and delivery facilities and
 8 infrastructure projects" include, but are not limited to, projects that
 9 promote any of the following:

10 (1) Water reuse and recycling for nonpotable reuse and direct
 11 and indirect potable reuse.

12 (2) Local and regional surface and underground water storage,
 13 including groundwater aquifer cleanup or recharge projects.

14 (3) Regional water conveyance facilities that improve integration
 15 of separate water systems.

16 (4) Watershed protection, restoration, and management projects,
 17 including projects that reduce the risk of wildfire or improve water
 18 supply reliability.

19 (5) Stormwater resource management, including, but not limited
 20 to, the following:

21 (A) Projects to reduce, manage, treat, or capture rainwater or
 22 stormwater.

23 (B) Projects that provide multiple benefits such as water quality,
 24 water supply, flood control, or open space.

25 (6) Conjunctive use of surface and groundwater storage
 26 facilities.

27 (7) Water desalination.

28 (8) Improvement of water quality, including drinking water
 29 treatment and distribution, groundwater and aquifer remediation,
 30 matching water quality to water use, wastewater treatment, water
 31 pollution prevention, and management of urban and agricultural
 32 runoff.

33 Fourth— That Section 2 of Article XIII C thereof is amended
 34 to read:

35 SEC. 2. ~~Local Government Tax Limitation.~~ Notwithstanding
 36 any other provision of this Constitution:

37 (a) ~~All taxes.~~ Any tax imposed by any local government shall be
 38 deemed to be *is* either a general taxes tax or a special taxes. Special
 39 purpose districts tax. A special district or agencies, agency

1 including ~~a school districts, shall have no power~~ *district, has no*
2 *authority to levy a general taxes: tax.*

3 (b) ~~No~~ A local government may *not* impose, extend, or increase
4 any general tax unless and until that tax is submitted to the
5 electorate and approved by a majority vote. A general tax ~~shall is~~
6 *not be* deemed to have been increased if it is imposed at a rate not
7 higher than the maximum rate so approved. The election required
8 by this subdivision shall be consolidated with a regularly scheduled
9 general election for members of the governing body of the local
10 government, except in cases of emergency declared by a unanimous
11 vote of the governing body.

12 (c) Any general tax imposed, extended, or increased, without
13 voter approval, by any local government on or after January 1,
14 1995, and prior to the effective date of this article, ~~shall may~~
15 continue to be imposed only if *that general tax is* approved by a
16 majority vote of the voters voting in an election on the issue of the
17 imposition, which election shall be held ~~within two years of the~~
18 *effective date of this article no later than November 6, 1996,* and
19 in compliance with subdivision (b).

20 (d) ~~No~~ *Except as provided by subdivision (c) or (d) of Section*
21 *1 of, or Section 4.5 of, Article XIII A,* a local government may *not*
22 impose, extend, or increase any special tax unless and until that
23 tax is submitted to the electorate and approved by a two-thirds
24 vote. A special tax ~~shall is not be~~ deemed to have been increased
25 if it is imposed at a rate not higher than the maximum rate so
26 approved.

27 Fifth— That Section 3 of Article XIII D thereof is amended
28 to read:

29 SEC. 3. ~~Property Taxes, Assessments, Fees and Charges~~
30 ~~Limited.~~ (a) ~~No~~ *An agency shall not assess* a tax, assessment, fee,
31 or charge ~~shall be assessed by any agency~~ upon any parcel of
32 property or upon any person as an incident of property ownership
33 except:

34 (1) The ad valorem property tax imposed pursuant to Article
35 XIII and Article XIII A.

36 (2) Any special tax receiving a two-thirds vote pursuant to
37 Section 4 of Article XIII A *or, as applicable, a 55 percent vote*
38 *pursuant to subdivision (c) or (d) of Section 1 of, or Section 4.5,*
39 *of Article XIII A.*

40 (3) Assessments as provided by this article.

1 (4) Fees or charges for ~~property-related~~ *property-related* services
2 as provided by this article.

3 (b) For purposes of this article, fees for the provision of electrical
4 or gas service ~~shall are~~ not be deemed charges or fees imposed as
5 an incident of property ownership.

6 Sixth— That Section 18 of Article XVI thereof is amended to
7 read:

8 SEC. 18. (a) ~~No~~ A county, city, town, township, board of
9 education, or school ~~district~~, *district* shall *not* incur any
10 indebtedness or liability in any manner or for any purpose
11 exceeding in any year the income and revenue provided for ~~such~~
12 *that* year, without the assent of two-thirds of the voters of the public
13 entity voting at an election to be held for that purpose, except that
14 with respect to any ~~such~~ public entity ~~which~~ *that* is authorized to
15 incur indebtedness for public school purposes, any proposition for
16 the incurrence of indebtedness in the form of general obligation
17 bonds for the purpose of repairing, ~~reconstructing~~ *reconstructing*,
18 or replacing public school buildings determined, in the manner
19 prescribed by law, to be structurally unsafe for school use, shall
20 be adopted upon the approval of a majority of the voters of the
21 public entity voting on the proposition at ~~such~~ *that* election; nor
22 unless before or at the time of incurring ~~such~~ *the* indebtedness
23 *indebtedness*, provision shall be made for the collection of an
24 annual tax sufficient to pay the interest on ~~such~~ *the* indebtedness
25 as it falls due, and to provide for a sinking fund for the payment
26 of the principal thereof, on or before ~~maturity~~, ~~which~~ *maturity that*
27 shall not exceed ~~forty~~ *40* years from the time of contracting the
28 indebtedness.

29 (b) Notwithstanding subdivision (a), on or after ~~the effective~~
30 ~~date of the measure adding this subdivision~~, *November 8, 2000*,
31 in the case of any school district, community college district, or
32 county office of education, any proposition for the incurrence of
33 indebtedness in the form of general obligation bonds for the
34 construction, reconstruction, rehabilitation, or replacement of
35 school facilities, including the furnishing and equipping of school
36 facilities, or the acquisition or lease of real property for school
37 facilities, shall be adopted upon the approval of 55 percent of the
38 voters of the district or county, as appropriate, voting on the
39 proposition at an election. This subdivision shall apply only to a
40 proposition for the incurrence of indebtedness in the form of

1 general obligation bonds for the purposes specified in this
2 subdivision if the proposition meets all of the accountability
3 requirements of paragraph (3) of subdivision (b) of Section 1 of
4 Article XIII A.

5 *(c) Notwithstanding subdivision (a), on or after the effective*
6 *date of the measure adding this subdivision, in the case of any city,*
7 *county, or city and county, any proposition to incur indebtedness*
8 *in the form of general obligation bonds shall be adopted by 55*
9 *percent of the voters of the city, county, or city and county, as*
10 *applicable, voting on the proposition at an election, where the*
11 *general obligation bonds would fund the construction,*
12 *reconstruction, rehabilitation, or replacement of wastewater*
13 *treatment facilities and related infrastructure, potable water*
14 *producing facilities and related infrastructure, nonpotable water*
15 *producing facilities and related infrastructure, and stormwater*
16 *treatment facilities and related infrastructure.*

17 ~~(e)~~

18 *(d) When two or more propositions for incurring any*
19 *indebtedness or liability are submitted at the same election, the*
20 *votes cast for and against each proposition shall be counted*
21 *separately, and when two-thirds or a majority or 55 percent or a*
22 *majority of the voters, as the case may be, voting on any one of*
23 *those propositions, vote in favor thereof, the proposition shall be*
24 *deemed adopted.*

EXHIBIT "E"

SENATE BILL

No. 814

Introduced by Senator Hill

January 4, 2016

An act to amend Section 6254.16 of the Government Code, and to add Chapter 3.3 (commencing with Section 365) to Division 1 of the Water Code, relating to water.

LEGISLATIVE COUNSEL'S DIGEST

SB 814, as introduced, Hill. Drought: excessive water use: urban retail water suppliers.

The California Constitution requires the reasonable and beneficial use of water. Existing law requires the Department of Water Resources and the State Water Resources Control Board to take all appropriate proceedings or actions to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of water in this state. Existing law authorizes any public entity, as defined, that supplies water at retail or wholesale for the benefit of persons within the service area or area of jurisdiction of the public entity to, by ordinance or resolution, adopt and enforce a water conservation program to reduce the quantity of water used for the purpose of conserving the water supplies of the public entity. Existing law provides that a violation of a requirement of a water conservation program is a misdemeanor punishable by imprisonment in the county jail for not more than 30 days, or by fine not exceeding \$1,000, or both.

This bill would declare that excessive water use, as defined by each urban retail water supplier, is a waste or unreasonable use of water. This bill would prohibit excessive water use by a residential customer and would make a violation of this prohibition an infraction punishable by a fine of at least \$500 per 100 cubic feet of water used above the

excessive water use definition in a billing cycle. By creating a new infraction, this bill would impose a state-mandated local program.

This bill would provide that these provisions apply only during a period for which the Governor has issued a proclamation of a state of emergency based on drought conditions.

The California Public Records Act requires that public records, as defined, be open to inspection at all times during the hours of a state or local agency and that every person has a right to inspect any public record, with specified exceptions. Existing law prohibits the act from being construed to require the disclosure of certain information concerning utility customers of local agencies, with specified exceptions.

This bill would require certain information about residential customers that violate the prohibition on excessive water use to be made available under the act upon request. By increasing the duties of local officials, the bill would impose a state-mandated local program.

The California Constitution requires local agencies, for the purpose of ensuring public access to the meetings of public bodies and the writings of public officials and agencies, to comply with a statutory enactment that amends or enacts laws relating to public records or open meetings if that enactment contains findings demonstrating that the enactment furthers the constitutional requirements relating to this purpose.

This bill would make legislative findings to that effect.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that no reimbursement is required by this act for a specified reason.

Vote: majority. Appropriation: no. Fiscal committee: yes.

State-mandated local program: yes.

The people of the State of California do enact as follows:

- 1 SECTION 1. Section 6254.16 of the Government Code is
- 2 amended to read:
- 3 6254.16. Nothing in this chapter shall be construed to require
- 4 the disclosure of the name, credit history, utility usage data, home
- 5 address, or telephone number of utility customers of local agencies,
- 6 except that disclosure of name, utility usage data, and the home

1 address of utility customers of local agencies shall be made
2 available upon request as follows:

3 (a) To an agent or authorized family member of the person to
4 whom the information pertains.

5 (b) To an officer or employee of another governmental agency
6 when necessary for the performance of its official duties.

7 (c) Upon court order or the request of a law enforcement agency
8 relative to an ongoing investigation.

9 (d) Upon determination by the local agency that the utility
10 customer who is the subject of the request has used utility services
11 in a manner inconsistent with applicable local utility usage policies.

12 (e) Upon determination by the local agency that the utility
13 customer who is the subject of the request is an elected or appointed
14 official with authority to determine the utility usage policies of the
15 local agency, provided that the home address of an appointed
16 official shall not be disclosed without his or her consent.

17 (f) Upon determination by the local agency that the public
18 interest in disclosure of the information clearly outweighs the
19 public interest in nondisclosure.

20 (g) *Regarding residential customers that violate the prohibition*
21 *on excessive water use described in Section 367 of the Water Code.*

22 SEC. 2. Chapter 3.3 (commencing with Section 365) is added
23 to Division 1 of the Water Code, to read:

24

25 CHAPTER 3.3. EXCESSIVE RESIDENTIAL WATER USE DURING
26 DROUGHT

27

28 365. (a) The Legislature finds and declares that this chapter
29 is in furtherance of Section 2 of Article X of the California
30 Constitution as intended to prevent the unreasonable use or the
31 waste of water and to protect water resources in the interest of the
32 people and for the public welfare.

33 (b) For the purposes of this chapter, “urban retail water supplier”
34 has the same meaning as provided in Section 10608.12.

35 366. (a) (1) Each urban retail water supplier shall establish a
36 definition of excessive water use by a customer of the urban retail
37 water supplier that considers, but is not necessarily limited to
38 addressing, all of the following factors:

39 (A) Average daily use.

40 (B) Full-time occupancy of households.

1 (C) Amount of landscaped land on a property.

2 (D) Rate of evapotranspiration.

3 (2) An urban retail water supplier may also consider seasonal
4 weather changes when establishing a definition of excessive water
5 use by a customer of the urban retail water supplier.

6 (b) An urban retail water supplier shall define and measure
7 excessive water use in terms of hundreds of cubic feet of water
8 used during the water supplier's regular billing cycle.

9 (c) An urban retail water supplier shall adopt the definition of
10 excessive water use and make any other changes necessary to
11 implement this chapter by adopting a new rule or ordinance or by
12 amending an existing rule or ordinance relating to drought or water
13 conservation.

14 367. (a) Excessive water use is a waste or unreasonable use
15 of water.

16 (b) Excessive water use by a residential customer is prohibited.

17 (c) A violation of subdivision (b) is an infraction punishable by
18 a fine of at least five hundred dollars (\$500) per hundred cubic
19 feet of water used above the excessive water use definition in a
20 billing cycle. Any fine imposed pursuant to this subdivision shall
21 be added to the customer's water bill and is due and payable with
22 that water bill. Each urban retail water supplier shall have a process
23 for nonpayment of the fine, which shall be consistent with the
24 water supplier's existing process for nonpayment of a water bill.
25 That process may include, but is not necessarily limited to, the
26 imposition of nonpayment penalties, interruption of water service,
27 and placing of a lien on the customer's real property.

28 (d) A violation of subdivision (b) where a demonstrable water
29 leak at the residence occurred and a fix to that leak is underway
30 shall not be punishable pursuant to subdivision (c). Other
31 reasonable justifications for excessive water use shall be considered
32 consistent with subdivision (e).

33 (e) (1) An urban retail water supplier shall establish a process
34 for the appeal of a violation of subdivision (b) whereby the
35 customer may contest the imposition of any fine or penalty for
36 excessive water use.

37 (2) As part of the appeal process, the customer shall be provided
38 with an opportunity to provide evidence of a bona fide reason for
39 the excessive water use, including evidence of a water leak meeting

1 the requirements of subdivision (d), a medical reason, or any other
2 reasonable justification for the water use.

3 368. This chapter applies only during a period for which the
4 Governor has issued a proclamation of a state of emergency under
5 the California Emergency Services Act (Chapter 7 (commencing
6 with Section 8550) of Division 1 of Title 2 of the Government
7 Code) based on drought conditions.

8 SEC. 3. The Legislature finds and declares that Section 1 of
9 this act, which amends Section 6254.16 of the Government Code,
10 furthers, within the meaning of paragraph (7) of subdivision (b)
11 of Section 3 of Article I of the California Constitution, the purposes
12 of that constitutional section as it relates to the right of public
13 access to the meetings of local public bodies or the writings of
14 local public officials and local agencies. Pursuant to paragraph (7)
15 of subdivision (b) of Section 3 of Article I of the California
16 Constitution, the Legislature makes the following findings:

17 The Legislature finds that it is in the public's interest to be made
18 aware of excessive water use during a drought in order to help
19 prevent the unreasonable use or waste of water to protect water
20 resources in the interest of the people and for the public welfare.

21 SEC. 4. No reimbursement is required by this act pursuant to
22 Section 6 of Article XIII B of the California Constitution because
23 the costs that may be incurred by a local agency or school district
24 under this act would result from a legislative mandate that is within
25 the scope of paragraph (7) of subdivision (b) of Section 3 of Article
26 I of the California Constitution or because the costs that may be
27 incurred by a local agency or school district will be incurred
28 because this act creates a new crime or infraction, eliminates a
29 crime or infraction, or changes the penalty for a crime or infraction,
30 within the meaning of Section 17556 of the Government Code, or
31 changes the definition of a crime within the meaning of Section 6
32 of Article XIII B of the California Constitution.

O

EXHIBIT "F"

CALIFORNIA LEGISLATURE—2015–16 REGULAR SESSION

ASSEMBLY BILL

No. 2022

Introduced by Assembly Member Gordon

February 16, 2016

An act to add Section 13570 to the Water Code, relating to water.

LEGISLATIVE COUNSEL'S DIGEST

AB 2022, as introduced, Gordon. Advanced purified demonstration water.

Existing law requires the State Department of Public Health to, on or before December 31, 2013, adopt uniform water recycling criteria for indirect potable reuse for groundwater recharge and to investigate and, on or before December 31, 2016, report to the Legislature on the feasibility of developing uniform water recycling criteria for direct potable reuse. Existing law transferred these powers and responsibilities to the State Water Resources Control Board on July 1, 2014.

Under existing law, the State Department of Public Health licenses and regulates water bottlers, distributors, and vendors. Existing law prescribes various quality and labeling standards for bottled water and limits the levels of certain contaminants that may be contained in those water products. Violation of these provisions is a crime.

This bill would authorize the operator of a facility producing advanced purified demonstration water, as defined, to cause that water to be bottled and distributed as samples for educational purposes and to promote water recycling. The bill would prohibit the advanced purified demonstration water from being distributed unless the water meets or is superior to all federal and state drinking water standards. The bill would authorize advanced purified demonstration water to be bottled at a licensed water-bottling plant in compliance with specified

provisions. The bill would further establish bottling and labeling requirements for advanced purified demonstration water and would prohibit a facility from bottling more than 2,500 gallons of the water in a calendar year. The bill would specify that a violation of these provisions does not constitute a crime.

Vote: majority. Appropriation: no. Fiscal committee: yes.
State-mandated local program: no.

The people of the State of California do enact as follows:

1 SECTION 1. Section 13570 is added to the Water Code, to
2 read:
3 13570. (a) As used in this section, “advanced purified
4 demonstration water” means product water from an advanced water
5 purification facility that satisfies both of the following
6 requirements:
7 (1) The product water is treated by means of all of the following
8 treatment processes:
9 (A) Microfiltration, ultrafiltration, or other filtration processes
10 to remove particulates before reverse osmosis.
11 (B) Reverse osmosis.
12 (C) Advanced oxidation.
13 (2) The product water meets or is superior to all federal and
14 state drinking water standards.
15 (b) An advanced water purification facility may use an
16 alternative treatment process in lieu of a process specified in
17 subdivision (a) if the facility demonstrates to the Division of
18 Drinking Water of the State Water Resources Control Board that
19 the proposed alternative ensures at least the same level of protection
20 to public health.
21 (c) Except as expressly set forth in this section, the operator of
22 a facility producing advanced purified demonstration water may
23 cause that water to be bottled and distributed as samples for
24 educational purposes and to promote water recycling, without
25 complying with the requirements of Article 12 (commencing with
26 Section 111070) of Chapter 5 of Part 5 of Division 104 of the
27 Health and Safety Code.
28 (d) Any operator seeking to bottle advanced purified
29 demonstration water shall collect water samples prior to the
30 commencement of the bottling process, and test that water in

1 accordance with Section 111165 of the Health and Safety Code.
2 Advanced purified demonstration water shall not be distributed
3 unless that water meets or is superior to all federal and state
4 drinking water standards, all maximum contaminant levels
5 established by the Division of Drinking Water of the State Water
6 Resources Control Board for public drinking water, and all water
7 purification requirements imposed by regulatory agencies on the
8 water reclamation facility that produces the product water being
9 used as advanced purified demonstration water.

10 (e) Advanced purified demonstration water may be bottled only
11 at a licensed water-bottling plant in compliance with Sections
12 111080, 111120, 111145, and 111155 of the Health and Safety
13 Code.

14 (f) Advanced purified demonstration water shall be handled
15 from the point of production to the completion of bottling in
16 accordance with all regulations governing the transportation,
17 bottling, and handling of bottled water, as defined in subdivision
18 (a) of Section 111070 of the Health and Safety Code, including,
19 but not limited to, subdivisions (b), (f), and (h) of Section 111075
20 of the Health and Safety Code. A water bottling plant that bottles
21 advanced purified demonstration water in accordance with this
22 section may also bottle other potable water, subject to compliance
23 with Article 12(commencing with Section 111070)of Chapter 5
24 of Part 5 of Division 104 of the Health and Safety Code.

25 (g) Advanced purified demonstration water shall be bottled in
26 nonreturnable (one-way) bottles or packages with labels containing
27 the following information in an easily readable format that
28 complies with all of the following:

29 (1) The label shall state “sample water--not for sale” and
30 “advanced purified water meeting all federal and state drinking
31 water standards.”

32 (2) The label shall set forth the name, address, telephone
33 number, and Internet Web site of the operator of the facility
34 producing the advanced purified demonstration water.

35 (3) The label shall include a brief description of the advanced
36 purified demonstration water, including its source and the treatment
37 processes to which the water is subjected.

38 (h) A single water purification facility may not bottle more than
39 2,500 gallons of advanced purified demonstration water in a
40 calendar year.

- 1 (i) Advanced purified demonstration water shall not be sold or
- 2 otherwise distributed in exchange for financial consideration.
- 3 (j) A violation of this section shall not be subject to Section
- 4 111825 of the Health and Safety Code.

O



EXHIBIT "G"

I

114TH CONGRESS
2D SESSION

H. R. 4615

To amend the Internal Revenue Code of 1986 to exclude from gross income amounts received from a water department for water conservation efficiency measures and water runoff management improvements.

IN THE HOUSE OF REPRESENTATIVES

FEBRUARY 25, 2016

Mr. HUFFMAN (for himself and Mr. ROHRABACHER) introduced the following bill; which was referred to the Committee on Ways and Means

A BILL

To amend the Internal Revenue Code of 1986 to exclude from gross income amounts received from a water department for water conservation efficiency measures and water runoff management improvements.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the "Water Conservation
5 Rebate Tax Parity Act".

1 **SEC. 2. EXCLUSION OF AMOUNTS RECEIVED FROM A**
2 **WATER DEPARTMENT FOR WATER CON-**
3 **SERVATION EFFICIENCY MEASURES AND**
4 **WATER RUNOFF MANAGEMENT IMPROVE-**
5 **MENTS.**

6 (a) **IN GENERAL.**—Part III of subchapter B of chap-
7 ter 1 of the Internal Revenue Code of 1986 is amended
8 by inserting after section 139E the following new section:
9 **“SEC. 139F. WATER CONSERVATION EFFICIENCY MEAS-**
10 **URES AND WATER RUNOFF MANAGEMENT IM-**
11 **PROVEMENTS.**

12 “(a) **IN GENERAL.**—Gross income shall not include
13 the value of any water conservation and efficiency measure
14 or water runoff management improvement (or any sub-
15 sidy, rebate, or other amount for such a measure or im-
16 provement) received directly or indirectly from a water de-
17 partment.

18 “(b) **DENIAL OF DOUBLE BENEFIT.**—Notwith-
19 standing any other provision of this subtitle, no deduction
20 or credit shall be allowed for, or by reason of, any expendi-
21 ture to the extent of the amount excluded under sub-
22 section (a) for any subsidy, rebate or other amount which
23 was provided with respect to such expenditure. The ad-
24 justed basis of any property shall be reduced by the
25 amount excluded under subsection (a) which was provided
26 with respect to such property.

1 “(c) DEFINITIONS.—For purposes of this section—

2 “(1) WATER CONSERVATION AND EFFICIENCY
3 MEASURE.—The term ‘water conservation and effi-
4 ciency measure’ means any evaluation of water use,
5 or any installation or modification of property, the
6 primary purpose of which is to reduce consumption
7 of water or to improve the management of water de-
8 mand with respect to one or more dwelling units.

9 “(2) WATER RUNOFF MANAGEMENT IMPROVE-
10 MENT.—The term ‘water runoff management im-
11 provement’ means any installation or modification of
12 property the primary purpose of which is to reduce
13 or manage storm water runoff with respect to one or
14 more dwelling units.

15 “(3) WATER DEPARTMENT.—The term ‘water
16 department’ means any entity (including a public or
17 private utility, the Federal Government, a State or
18 local government or any political subdivision thereof,
19 or any instrumentality of the foregoing) engaged
20 in—

21 “(A) the provision of water to the public
22 through pipes or other constructed conveyances,
23 or

1 “(B) the collection, treatment, manage-
2 ment, or disposal of stormwater or wastewater
3 generated by the public.

4 “(4) DWELLING UNIT.—The term ‘dwelling
5 unit’ has the meaning given such term by section
6 280A(f)(1).”.

7 (b) CLERICAL AMENDMENT.—The table of sections
8 for part III of subchapter B of chapter 1 of such Code
9 is amended by inserting after the item relating to section
10 139E the following new item:

 “Sec. 139F. Water conservation efficiency measures and water runoff manage-
 ment improvements.”.

11 (c) EFFECTIVE DATE.—The amendments made by
12 this section shall apply to taxable years beginning after
13 December 31, 2014.

14 (d) NO INFERENCE REGARDING PROPER TAX
15 TREATMENT.—Nothing in this Act or the amendments
16 made by this Act shall be construed to create any infer-
17 ence with respect to the proper tax treatment of any sub-
18 sidy or rebate received directly or indirectly from a water
19 department for any water conservation and efficiency
20 measure or water runoff management improvement in any
21 taxable year ending on or before the date of the enactment
22 of this Act.

○

March 14, 2016

Prepared by: C. Kessler/K. Lew

Submitted by: K. Burton *KL*

Approved by: Paul Cook *P. Cook*

CONSENT CALENDAR

PLANNING AREA 51 HERITAGE FIELDS CAPITAL FACILITIES

SUMMARY:

Heritage Fields El Toro, LLC (Heritage Fields) is proceeding with development of the sports park and District 4 within Planning Area (PA) 51 (Great Park), which includes the construction of streets, storm drains, domestic water, sewer, and recycled water improvements. Staff recommends that the Board:

- Authorize the addition of the GP-1 Improvements from Marine Way to GP-2, Projects 6512, 6513 and 6514 in the amount of \$355,300, \$938,300 and \$536,800 respectively, and GP-2 Improvements from Bosque to GP-1, Projects 6536, 6537 and 6538 in the amount of \$531,300, \$333,300 and \$1,049,400 respectively, to the FY 2015-16 Capital Budget;
- Authorize budget increases for Project 6016 in the amount of \$122,100, from \$34,100 to \$156,200; Project 6017 in the amount of \$86,900, from \$28,600 to \$115,500; and Project 6018 in the amount of \$803,000, from \$609,400 to \$1,412,400; and
- Authorize the General Manager to approve Expenditure Authorizations with adjustments to splits within Improvement Districts (IDs) for Projects 6016, 6017 and 6018.

BACKGROUND:

Heritage Fields is proceeding with development of the sports park and District 4 within PA 51. The project location map is shown as Exhibit "A". As part of this development, Heritage Fields will design and construct IRWD's domestic water, sewer, and recycled water capital improvements. The required IRWD capital facilities are documented in the PA 51 Sub-Area Master Plan Update that is currently being prepared by Stantec.

The design and construction of the IRWD facilities will be performed under the terms of the Master Reimbursement Agreement and Supplemental Reimbursement Agreement between Heritage Fields and IRWD which was approved by the Board in August 2012 and August 2015, respectively.

GP-1 from Marine Way to GP-2 Domestic Water, Sewer and Recycled Water Improvements:

The GP-1 from Marine Way to GP-2 Domestic Water, Sewer and Recycled Water Improvements Project consist of installing approximately 3,000 feet of 12-inch domestic water pipeline, 3,000 feet of 12-inch sewer pipeline, 3,000 feet of 18-inch sewer pipeline, 3,000 feet of 10-inch recycled water pipeline and 3,000 feet of 16-inch recycled water pipeline. Heritage Fields retained Hunsaker to prepare the GP-1 from Marine Way to GP-2 Domestic Water, Sewer and Recycled Water Improvements plans and it received bids from four contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, L&S, for an initial bid amount of \$594,667 that was later increased by \$464,142 for a total bid amount of \$1,058,809.

The increase, which was a result of upsizing system pipelines to accommodate increasing demand, was based off similar unit pricing of recent projects. The initial bid, additions and deductions related to the upsizing are shown in Exhibit “B”. In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, and archeological and paleontological monitoring services. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the GP-1 from Marine Way to GP-2 Domestic Water, Sewer and Recycled Water Improvement costs is shown below.

Design (Hunsaker)	\$ 88,000.00
Construction (L&S)	\$1,058,809.00
Geotechnical Services (Engeo)	\$ 42,200.00
Construction Engineering/Surveying (Hunsaker)	\$ 21,700.00
Field Archeo/Paleo Monitoring (LSA)	\$ 12,545.00
Heritage Fields Administration Fee (1%)	\$ 10,588.09
	\$1,233,842.09

GP-2 from Bosque to GP-1 Domestic Water, Sewer and Recycled Water Improvements:

The GP-2 from Bosque to GP-1 Domestic Water, Sewer and Recycled Water Improvements consist of installing approximately 3,500 feet of 12-inch domestic water pipeline, 500 feet of 18-inch sewer pipeline, 2,500 feet of 10-inch recycled water pipeline and 2,200 feet of 12-inch recycled water pipeline. Heritage Fields retained Hunsaker to prepare the GP-2 from Bosque to GP-1 Domestic Water, Sewer and Recycled Water Improvements plans and it received bids from five contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, L&S, for a bid amount of \$964,682, as shown in Exhibit “C”. In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying and archeological and paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the GP-2 from Bosque to GP-1 Domestic Water, Sewer and Recycled Water Improvements costs is shown below.

Design (Hunsaker)	\$ 108,000.00
Construction (L&S)	\$ 964,682.00
Geotechnical Services (Engeo)	\$ 49,500.00
Construction Engineering/Surveying (Hunsaker)	\$ 135,600.00
Field Archeo / Paleo Monitoring (LSA)	\$ 9,995.00
Heritage Fields Administration Fee (1%)	\$ 9,646.82
	\$1,277,423.82

Irvine Boulevard from Lambert Road to Pusan Domestic Water, Sewer and Recycled Water Improvements:

The Irvine Boulevard from Lambert Road to Pusan Domestic Water, Sewer and Recycled Water Improvements consist of installing approximately 100 feet of 12-inch domestic water pipeline, and 2,200 feet of 20-inch recycled water pipeline within Irvine Boulevard between Lambert Road and Pusan. Heritage Fields retained Hunsaker to prepare the Irvine Boulevard from

Lambert Road to Pusan Domestic Water, Sewer and Recycled Water Improvements plans and it received bids from five contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, Leatherwood, for a bid amount of \$1,082,281 as shown in Exhibit "D". In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, archeological and paleontological monitoring and Geotechnical Design services. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the Irvine Boulevard from Lambert Road to Pusan Domestic Water, Sewer and Recycled Water Improvements costs is shown below.

Design (Hunsaker)	\$ 32,100.00
Construction (L&S)	\$1,082,281.00
Geotechnical Services (Engeo)	\$ 28,300.00
Construction Engineering/Surveying (Hunsaker)	\$ 32,800.00
Field Archeo / Paleo Monitoring (LSA)	\$ 9,315.00
Heritage Fields Administration Fee (1%)	<u>\$ 10,822.81</u>
	\$1,199,918.81

FISCAL IMPACTS:

Projects 6016, 6017, and 6018 are included in the FY 2015-16 Capital Budget and will require budget increases. Staff requests the addition of the GP-1 from Marine Way to GP-2 Domestic Water, Sewer and Recycled Water Improvements, Projects 6512, 6513, 6514 to the FY 2015-16 Capital Budget in the amount of \$355,300, \$938,300 and \$536,800 respectively, and GP-2 from Bosque to GP-1 Domestic Water, Sewer and Recycled Water Improvements, Projects 6536, 6537, and 6538 to the FY 2015-16 Capital Budget in the amount of \$531,300, \$333,300 and \$1,049,400 respectively. Expenditure Authorization approval for Projects 6512, 6513, 6514, 6536, 6537 and 6538 will be requested at the General Manager approval level. Expenditure Authorization approval for Projects 6016, 6017, and 6018 require Board approval because of adjustments to splits within IDs. In an effort to better manage budgets, staff is adjusting the ID splits within PA 51 to more accurately reflect the actual ID cost responsibilities. The revised ID splits are shown in Expenditure Authorizations that are attached as Exhibit "D".

Project No.	Current Budget	Addition <Reduction>	Total Budget
6512	-0-	\$ 355,300	\$ 355,300
6513	\$ -0-	\$ 938,300	\$ 938,300
6514	\$ -0-	\$ 536,800	\$ 536,800
6536	\$ -0-	\$ 531,300	\$ 531,300
6537	\$ -0-	\$ 333,300	\$ 333,300
6538	\$ -0-	\$1,049,400	\$1,049,400
6016	\$ 34,100	\$ 122,100	\$ 156,200
6017	\$ 28,600	\$ 86,900	\$ 115,500
6018	\$609,400	\$ 803,000	\$1,412,400
Total	\$672,100	\$4,756,400	\$5,428,500

ENVIRONMENTAL COMPLIANCE:

Construction of capital domestic water, sewer, and recycled water facilities for the Great Park Development is subject to CEQA. In conformance with the California Code of Regulations Title 14, Chapter 3, Article 7 an Environmental Impact Report was certified by the City of Irvine, the lead agency on April 4, 2012 (SCH# 2002101020).

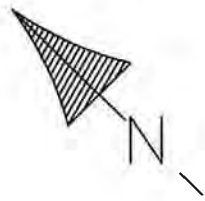
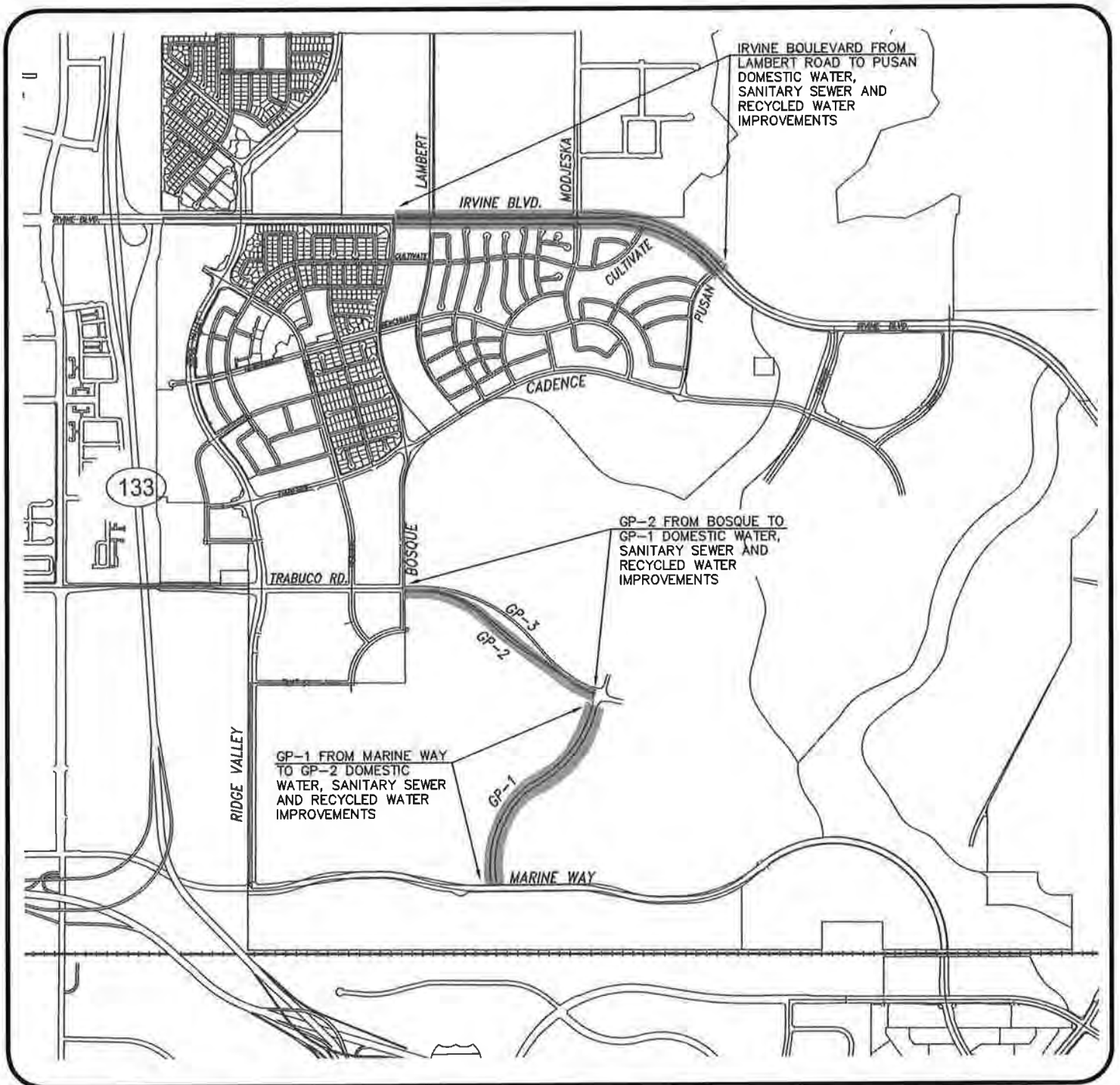
COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on February 16, 2016.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE ADDITION OF THE GP-1 FROM MARINE WAY TO GP-2 DOMESTIC WATER, SEWER AND RECYCLED WATER IMPROVEMENT PROJECTS 6512, 6513 AND 6514 TO THE FY 2015-16 CAPITAL BUDGET IN THE AMOUNT OF \$335,300; \$938,300 AND \$536,800 RESPECTIVELY; AUTHORIZE THE ADDITION OF THE GP-2 FROM BOSQUE TO GP-1 DOMESTIC WATER, SEWER AND RECYCLED WATER IMPROVEMENT PROJECTS 6536, 6537 AND 6538 TO THE FY 2015-16 CAPITAL BUDGET IN THE AMOUNT OF \$531,300; \$333,300 AND \$1,049,400 RESPECTIVELY; AUTHORIZE BUDGET INCREASES FOR PROJECT 6016 IN THE AMOUNT OF \$122,100, FROM \$34,100 TO \$156,200, PROJECT 6017 IN THE AMOUNT OF \$86,900, FROM \$28,600 TO \$115,500, PROJECT 6018 IN THE AMOUNT OF \$803,000, FROM \$609,400 TO \$1,412,400; AND AUTHORIZE THE GENERAL MANAGER TO APPROVE EXPENDITURE AUTHORIZATIONS FOR PROJECTS 6016, 6017 AND 6018.

- Exhibit "A" – Location Map
- Exhibit "B" – Bid Summary, GP-1 from Marine Way to GP-2
- Exhibit "C" – Bid Summary, GP-2 from Bosque to GP-1
- Exhibit "D" – Bid Summary, Irvine Boulevard from Lambert Road to Pusan
- Exhibit "E" – Expenditure Authorizations



not to scale

EXHIBIT "A"
LOCATION MAP

EXHIBIT "B"

Bid Tabulations



Owner: Heritage Fields El Toro, LLC

Project: GP-1 12" Domestic Water, 10" Recycled Water & 12" Sanitary Sewer Improvements

Bid Date: 7/29/15

ITEM NO.	IRWD CODE 6504 RECYCLED WATER CAPITAL IMPROVEMENTS	UNIT MEAS	QUAN	ENGINEER ESTIMATE		L&S Construction Attn: Elton Wehlem Tel: 714.528.3232		FYDAQ Attn: Steve Beyer Tel: 714.447.9780		Leatherwood Construction Attn: Bobby Kawai Tel: 714.593.6575		KEC Engineering Attn: Jim Eifling Tel: 951.734.3010		
				PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	
1	Mobilization, Establish Construction Water (Not to Exceed 2% of Bid), Complete	LS	1	1,500.00	1,500.00	1,550.00	1,550.00	1,500.00	1,500.00	3,500.00	3,500.00	3,000.00	3,000.00	
2	Furnish, Install and Maintain Traffic Control for Duration of Improvements, Complete	LS	1	200.00	200.00	250.00	250.00	0.00	0.00	200.00	200.00	18,000.00	18,000.00	
3	Performance, Labor and Payment Bond, Complete	LS	1	3,000.00	3,000.00	2,350.00	2,350.00	2,200.00	2,200.00	2,400.00	2,400.00	2,000.00	2,000.00	
NEW	Furnish and Install 16" PVC Purple Pipe, C-905, DR 18, including Trenching, Bedding, Backfill, Compaction, Fittings, Thrust Blocks and all other Appurtenances per IRWD Std. W-17 and as shown on the plans, Complete	LF	2,922			74.00	218,208.00							
4	Furnish and Install 10" PVC Purple Pipe, C-900, DR 14, including Trenching, Bedding, Backfill, Compaction, Fittings, Thrust Blocks and all other Appurtenances per IRWD Std. W-17 and as shown on the plans, Complete	LF	2,922	50.00	146,100.00	33.50	97,887.00	-97,887.00	39.00	113,958.00	45.00	131,490.00	50.00	146,100.00
5	Furnish and Install Temporary Flush-Out Assembly, Case 3, Per IRWD Std. W-12, Complete	EA	1	3,200.00	3,200.00	1,900.00	1,900.00	300.00	2,000.00	2,000.00	1,850.00	5,000.00	5,000.00	
NEW	Furnish and Install 16" Butterfly Valve, CI 150B, figd, including Valve Box per IRWD Std. W-22, Complete	EA	6			5,400.00	32,400.00							
6	Furnish and Install 10" Resilient Wedge Gate Valve, CI 150, figd, including Valve Box per IRWD Std. W-22, Complete	EA	5	4,900.00	24,500.00	2,650.00	13,250.00	-13,250.00	2,732.00	13,660.00	3,300.00	16,500.00	4,000.00	20,000.00
NEW	Furnish and Install 6" Resilient Wedge Gate Valve, CI 150, figd, including Valve Box per IRWD Std. W-22, Complete	EA	4			1,610.00	6,440.00							
7	Furnish and Install 4" Blow-Off Assembly, Case 3, Per IRWD Std. W-14, Complete	EA	1	9,000.00	9,000.00	5,200.00	5,200.00	4,900.00	4,900.00	11,200.00	11,200.00	9,000.00	9,000.00	
NEW	(Add to Item #7) 4" Blow-Off Assembly, Case 3, Per IRWD Std. W-14, Size main tee to 16" w/larger concrete kickar and 16" appurten						2,300.00							
8	Furnish and Install 2" Air-Vac Assembly, Case 3 per IRWD Std. W-11, Complete	EA	3			3,750.00	11,250.00							
NEW	Furnish and Install 1" Air-Vac Assembly, Case 3 per IRWD Std. W-11, Complete	EA	1	4,000.00	4,000.00	3,100.00	3,100.00	-3,100.00	3,000.00	3,000.00	4,300.00	4,300.00	2,900.00	2,900.00
NEW	Furnish and Install Permanent Recycled Water Hydrant, Condition 2, w/6" x 4" Oil Extinguish Reducer (Invert Fig. 1) per IRWD Std. W-9, Complete	EA	1			6,700.00	6,700.00							
NEW	Remove Temporary Flush-Out Assembly and Join Existing 16" PVC Recycled Water Line, Complete	EA	1			5,500.00	5,500.00							
9	Remove Temporary Flush-Out Assembly and Join Existing 10" PVC Recycled Water Line, Complete	EA	1	2,400.00	2,400.00	4,200.00	4,200.00	-4,200.00	1,500.00	1,500.00	2,800.00	2,800.00	2,000.00	2,000.00
10	Raise Valve Can to Interim Grade, Complete	EA	9	500.00	4,500.00	350.00	3,150.00	2,800.00	450.00	4,050.00	350.00	3,150.00	200.00	1,800.00
11	Pressure Test Pipeline, Complete	LF	2,022	2.00	5,944.00	1.70	4,967.40	584.40	1.50	4,383.00	1.00	2,922.00	5.00	14,610.00
SUB-TOTAL, IMPROVEMENTS.....					\$202,644.00		\$137,704.40	\$288,652.40	-\$118,437.00	\$160,759.00	\$180,112.00	\$220,410.00		

ITEM NO.	IRWD CODE 6504 DOMESTIC WATER CAPITAL IMPROVEMENTS	UNIT MEAS	QUAN	ENGINEER ESTIMATE		L&S Construction Attn: Elton Wehlem Tel: 714.528.3232		FYDAQ Attn: Steve Beyer Tel: 714.447.9780		Leatherwood Construction Attn: Bobby Kawai Tel: 714.593.6575		KEC Engineering Attn: Jim Eifling Tel: 951.734.3010		
				PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	
21	Mobilization, Establish Construction Water (Not to Exceed 2% of Bid), Complete	LS	1	1,500.00	1,500.00	2,500.00	2,500.00	1,300.00	1,300.00	4,300.00	4,300.00	4,000.00	4,000.00	
22	Furnish, Install and Maintain Traffic Control for Duration of Improvements, Complete	LS	1	200.00	200.00	250.00	250.00	0.00	0.00	200.00	200.00	18,000.00	18,000.00	
23	Performance, Labor and Payment Bond, Complete	LS	1	2,500.00	2,500.00	3,200.00	3,200.00	2,700.00	2,700.00	2,800.00	2,800.00	2,500.00	2,500.00	
24	Furnish and Install 12" PVC Pipe, C-900, DR 14, including Trenching, Bedding, Backfill, Compaction, Fittings, Thrust Blocks and all other Appurtenances per IRWD Std. W-17 and as shown on the plans, Complete	LF	2,942	58.00	170,634.00	48.00	141,264.00	50.00	147,150.00	52.00	153,036.00	55.00	161,865.00	
25	Furnish and Install 10" PVC Purple Pipe, C-900, DR 14, including Trenching, Bedding, Backfill, Compaction, Fittings, Thrust Blocks and all other Appurtenances per IRWD Std. W-17 and as shown on the plans, Complete	LF	2,942	5,000.00	14,710.00	3,300.00	9,714.00	3,200.00	9,520.00	4,300.00	12,670.00	5,000.00	14,710.00	
26	Furnish and Install 4" Blow-Off Assembly, Case 3, Per IRWD Std. W-14, Complete	EA	1	8,000.00	8,000.00	5,800.00	5,800.00	4,500.00	4,500.00	11,400.00	11,400.00	5,000.00	5,000.00	
27	Furnish and Install 2" Air Vac Assembly, Case 3 per IRWD Std. W-11, Complete	EA	1	4,200.00	4,200.00	3,600.00	3,600.00	4,100.00	4,100.00	6,200.00	6,200.00	4,000.00	4,000.00	
28	Furnish and Install Temporary Flush-out Assembly per IRWD Std. W-12, Complete	EA	1	4,000.00	4,000.00	1,800.00	1,800.00	2,000.00	2,000.00	1,700.00	1,700.00	5,000.00	5,000.00	
29	Raise Valve Can to Interim Grade, Complete	EA	9	500.00	4,500.00	380.00	3,420.00	380.00	400.00	4,950.00	350.00	3,150.00	200.00	1,800.00
30	Remove Temporary Flush-out Assembly and join existing 12" PVC Domestic Water Line, Complete	EA	1	1,500.00	1,500.00	4,300.00	4,300.00	1,500.00	1,500.00	4,750.00	4,750.00	2,000.00	2,000.00	
31	Chlorinate and Pressure Test Pipeline, including Proper Disposal of Chlorinated Water, Complete	LF	2,342	2.00	5,988.00	2.35	6,818.05		2.00	5,988.00	2.00	5,988.00	7.00	20,001.00
SUB-TOTAL, IMPROVEMENTS.....					\$228,280.00		\$190,650.05	\$3,990.00	\$0.00	\$198,398.00	\$214,922.00	\$249,738.00		

ITEM NO.	IRWD CODE 6504 SANITARY SEWER CAPITAL IMPROVEMENTS	UNIT MEAS	QUAN
44	Mobilization, Estation Construction Water (Not to Exceed 2% of Bid), Complete	LS	1
45	Furnish, Install and Maintain Traffic Control for Duration of Improvements, Complete	LS	1
46	Performance, Labor and Payment Bond, Complete	LS	1
47	Furnish and Install 6" Terminal Cleanout per IRWD Std. S-5, Complete	EA	1
48	Remove Temporary 6" Terminal Cleanout and Join Existing 12" Sewer Line, Complete	EA	1
NEW	Remove Temporary 6" Terminal Cleanout and Join Existing 18" Sewer Line, Complete	EA	1
49	Furnish and Install Temporary 6" Terminal Cleanout per IRWD Std. S-5, Complete	EA	1
NEW	Furnish and Install Temporary 8" Terminal Cleanout per IRWD Std. S-5, Complete	EA	1
50	Furnish and Install 6" PVC (Green) Laterals: SDR 35 with Indicator Tape, including Trenching, Bedding, Backfill & Compaction per IRWD Standard S-3, Complete	LF	25
NEW	Furnish and Install 6" PVC (Green) Laterals: SDR 35 with Indicator Tape, including Trenching, Bedding, Backfill & Compaction per IRWD Standard S-3, Complete	LF	47
51	Furnish and Install 12" PVC (Green), SDR 35 with Indicator Tape, 0# 15'-18", including Trenching, Bedding, Backfill & Compaction per IRWD Standard S-3, Complete	LF	2,904
NEW	Furnish and Install 18" PVC (Green), SDR 35 with Indicator Tape, 0# 15'-19", including Trenching, Bedding, Backfill & Compaction per IRWD Standard S-3, Complete	LF	2,684
NEW	Furnish and Install 24" PVC (Green) Laterals (by Jack and Bore) w/ 60 lb. Apollo at each end per IRWD Standard S-7, Complete	LF	50
52	Construct 60" Diameter Sewer Manhole, 0# 15'-19", Per IRWD Standard S-1, including 1 Final Adjustment to Proposed Finished Grade After Improvements Complete or Requested by Developer	EA	9
NEW	Add to Item 52: Additional Concrete at each Manhole from 12" pipe to 18" C-905 pipe	EA	10
53	Raise 60" Diameter Sewer to Interim Grade, including all Materials, Grade Rings, Manhole Splicing	EA	0
54	Cones, Labor, Equipment, Required Interim Flowline Protection Devices & Supervision, Complete	EA	0
55	Raise 6" Terminal Cleanout to Interim Grade, Complete	EA	1
56	Raise 6" Temporary Terminal Cleanout to Interim Grade, Complete	EA	1
56	Raise 6" Temporary Terminal Cleanout to Interim Grade, Complete	EA	1
57	Air Test and Video Pipeline per IRWD Standards & Specifications, Complete	LF	2,927
57	Additional Clean & Ball of Sewer, Complete	LS	1

ENGINEER ESTIMATE		L&S Construction Attn: Elton Welham Tel: 714.529.3232		FYDAG Attn: Steve Beyer Tel: 714.467.9760		Leatherwood Construction Attn: Bobby Kawai Tel: 714.523.6575		MOOTE COMPANIES Attn: Jim Eiting Tel: 954.734.3010	
PRICE	AMOUNT	PRICE	AMOUNT	ADDS from updating plan changes	DEDUCTS from Original 6504 Bid	PRICE	AMOUNT	PRICE	AMOUNT
4,000.00	4,000.00	2,550.00	2,550.00			1,500.00	1,500.00	5,900.00	5,900.00
500.00	500.00	250.00	250.00			0.00	0.00	300.00	300.00
2,500.00	2,500.00	4,300.00	4,300.00	3,100.00		4,650.00	4,650.00	3,900.00	3,900.00
2,700.00	2,700.00	750.00	750.00	750.00		2,500.00	2,500.00	1,250.00	1,250.00
2,000.00	2,000.00	1,490.00	1,490.00		-1,490.00	2,500.00	2,500.00	2,300.00	2,120.00
		1,990.00	1,990.00						
2,700.00	2,700.00	780.00	780.00		-780.00	2,500.00	2,500.00	1,300.00	1,300.00
		1,350.00	1,350.00						
80.00	1,840.00	155.00	3,565.00		-3,565.00	79.00	1,817.00	145.00	3,335.00
		155.00		7,285.00					
66.00	197,472.00	54.50	158,268.00		-158,268.00	84.00	243,096.00	65.00	189,750.00
9,300.00	85,500.00	9,000.00	81,000.00			7,350.00	66,150.00	7,000.00	63,000.00
		1,200.00	12,000.00						
500.00	4,500.00	550.00	4,950.00	550.00		500.00	4,500.00	550.00	4,950.00
450.00	450.00	480.00	480.00	980.00		450.00	450.00	350.00	350.00
450.00	450.00	350.00	350.00		-350.00	450.00	450.00	350.00	350.00
2.00	5,854.00	1.65	2,829.55	8.60		2.00	5,854.00	4.00	11,708.00
2,500.00	2,500.00	2,850.00	2,850.00			2,500.00	2,500.00	11,100.00	25,000.00
SUB-TOTAL, IMPROVEMENTS		\$312,665.00	\$288,417.53	\$455,399.60	-\$164,453.00	\$339,507.00	\$288,893.00	\$350,848.00	\$481,024.00
GRAND TOTAL		\$743,790.88	\$584,697.00	\$1,056,899.16		\$679,643.00	\$693,637.00	\$821,024.00	

EXHIBIT "C"

Bid Tabulations



Owner: Heritage Fields El Toro, LLC

Project: GP-2 & GP3 CAP CODE 6518 DOMESTIC WATER, RECYCLED WATER & SANITARY SEWER IMPROVEMENTS

Bid Date: November 4, 2015

CODE 6518
CIP

ITEM NO.	DESCRIPTION	UNIT	MEAS	QUAN	ENGINEER ESTIMATE		LAR Construction Attn: Elton Wehman Tel: 714.528.3232		Kennedy Pipeline Attn: David Chronk Tel: 949.380.8363		EYDAG Attn: Steve Beyer Tel: 714.447.9760		Leathwood Attn: Bobby Kawai Tel: 714.583.6575		KBC Engineering Attn: James Ething Tel: 851.734.3010		
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	
1	IRWD CODE 6518 CAPITAL DOMESTIC WATER																
1	Mobilization, Excavation Construction Water (Not to Exceed 2% of Bid), Complete	LS		1	3,500.00	3,500.00	3,000.00	3,000.00	5,100.00	5,100.00	500.00	500.00	5,400.00	5,400.00	2,500.00	2,500.00	
2	Furnish and install Traffic Control as Needed, Complete	LS		1	500.00	500.00	250.00	250.00	500.00	500.00	1,000.00	1,000.00	500.00	500.00	2,500.00	2,500.00	
3	Performance, Labor and Payment Bond, Complete	LS		1	3,000.00	3,000.00	4,100.00	4,100.00	3,900.00	3,900.00	4,000.00	4,000.00	3,700.00	3,700.00	3,500.00	3,500.00	
4	Furnish and install 12" PVC Pipe, C-900, DR 14, including Trenching, Bedding, Backfill, Compaction, All Fittings, Appurtenances, and Thrust Blocks per IRWD Std. W-17 and as Shown on the Plans, Complete	LF		2,437	67.00	230,279.00	54.50	187,316.50	62.18	213,712.66	85.00	225,405.00	80.00	206,220.00	70.00	240,580.00	
5	Furnish and install 12" Butterfly Valve, CI 150#, Flg'd per IRWD Std. W-22, including valve Box, including 1 Rise, Complete	EA		6	4,500.00	36,000.00	3,500.00	28,000.00	3,320.00	28,560.00	5,000.00	40,000.00	4,000.00	32,000.00	4,500.00	36,000.00	
6	Furnish and install Temporary Flush-Out Assembly per IRWD Std. W-12, including 1 Rise, Complete	EA		2	3,500.00	10,500.00	2,000.00	6,000.00	1,710.00	8,130.00	2,000.00	8,000.00	3,180.00	9,300.00	2,500.00	7,500.00	
7	Furnish and install 2" Air-Vac Assembly, Case 3, per IRWD Std. DWG. W-11 & Detail 2 on Sheet 11, including 1 Rise, Complete	EA		2	4,500.00	9,000.00	3,900.00	7,800.00	3,210.00	6,420.00	5,000.00	10,000.00	5,550.00	11,100.00	2,800.00	4,000.00	
8	Remove Temporary Flush-Out Assembly & Join Ex. 12" PVC Domestic Water Line, Complete	EA		1	3,000.00	3,000.00	4,600.00	4,600.00	3,500.00	3,500.00	3,000.00	3,000.00	1,750.00	1,750.00	1,500.00	1,500.00	
9	Raise Valve Can to Final Grade After Improvements are Complete or Requested by Developer including Extra Manholes, Complete	EA		10	300.00	8,500.00	400.00	5,200.00	200.00	2,600.00	450.00	5,550.00	400.00	5,200.00	1,200.00	15,600.00	
10	Chlorinate and Pressure Test Pipeline including Disposal of Chlorinated Water, Complete	LS		1	4,500.00	4,500.00	8,540.00	8,540.00	1,500.00	1,500.00	7,200.00	7,200.00	10,000.00	10,000.00	10,000.00	10,000.00	
SUB-TOTAL IMPROVEMENTS						\$308,778.00		\$285,206.50		\$288,822.66		\$300,855.00		\$285,170.00		\$323,430.00	

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ITEM NO.	IRWD CODE 6518 CAPITAL RECYCLED WATER	UNIT MEAS	QUAN
11	Mobilization, Erection Construction Water (Not to Exceed 2% of Bid), Complete	LS	1
12	Furnish and Install Traffic Control as Needed, Complete	LS	1
13	Performance, Labor and Payment Bond, Complete	LS	1
14	Furnish and Install 16" PVC Purple Pipe, C-900, DR 14, including Trenching, Bedding, Backfill, Compaction, All Fittings, Appurtenances and Thrust Blocks per IRWD Std. DWG. W-17 and as shown on the Plans, Complete	LF	353
15	Furnish and Install 16" Butterfly Valve, CL 150B, Flg'd Valve Box per IRWD Std. DWG. W-22, including 1 Raise, Complete	EA	2
16	Furnish and Install 12" PVC Purple Pipe, C-900, DR 14, including Trenching, Bedding, Backfill, Compaction, All Fittings, Appurtenances and Thrust Blocks per IRWD Std. DWG. W-17 and as shown on the Plans, Complete	LF	2,178
17	Furnish and Install 12" Butterfly Valve, CL 150B, Flg'd Valve Box per IRWD Std. DWG. W-22, including 1 Raise, Complete	EA	8
18	Furnish and Install 10" PVC Purple Pipe, C-900, DR 14, including Trenching, Bedding, Backfill, Compaction, All Fittings, Appurtenances and Thrust Blocks per IRWD Std. DWG. W-17 and as shown on the Plans, Complete	LF	2,430
19	Furnish and Install 10" Resilient Wedge Gate Valve, CL 150, Flg'd Valve Box per IRWD Std. DWG. W-22, including 1 Raise, Complete	EA	4
20	Furnish and Install 8" PVC Purple Pipe, C-900, DR 14, including Trenching, Bedding, Backfill, Compaction, All Fittings, Appurtenances and Thrust Blocks per IRWD Std. DWG. W-17 and as shown on the Plans, Complete	LF	33
21	Furnish and Install 8" Resilient Wedge Gate Valve, CL 150, Flg'd Valve Box per IRWD Std. DWG. W-22, including 1 Raise, Complete	EA	1
22	Install 1 Gate, Complete	EA	2
23	Furnish and Install 4" Blow-Off Assembly, Case 3, per IRWD Std. DWG. W-14, including 1 Raise Each, Complete	EA	2
24	Furnish and Install Temporary Flush-out Assembly per IRWD Std. DWG. W-12, including 1 Raise, Complete	EA	6
25	Furnish and Install Primary Pressure Regulating Station w/Telemetry & Antenna, including Upstream & Downstream Transducers, Micro Switch on the Control Valve (Valve Position Indication & Intrusion) per IRWD Std. DWG. W-15, and All Appurtenances, Complete	EA	1
26	Remove Temporary Flush-out Assembly and Join Existing 16" PVC Recycled Water Line, Complete	EA	1
27	Raise Valve Can to Final Grade After Improvements are Complete or Requested by Developer including Extra Moves, Complete	EA	27
28	Pressure Test Pipeline, Complete	LS	1
SUB-TOTAL, IMPROVEMENTS			

ENGINEER ESTIMATE		L&S Construction Attn: Elton Wehman Tel: 714.528.3232		Kennedy Pipeline Attn: David Chork Tel: 949.380.8363		FYDAQ Attn: Steve Beyer Tel: 714.447.9780		Leatherwood Attn: Bobby Kawai Tel: 714.593.6575		KFC Engineering Attn: James Ellring Tel: 951.734.3010	
PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
4,500.00	4,500.00	3,000.00	3,000.00	10,500.00	10,500.00	500.00	500.00	9,000.00	9,000.00	2,500.00	2,500.00
500.00	500.00	250.00	250.00	1,000.00	1,000.00	1,000.00	1,000.00	500.00	500.00	2,500.00	2,500.00
4,000.00	4,000.00	4,800.00	4,800.00	8,000.00	8,000.00	9,000.00	9,000.00	7,200.00	7,200.00	5,000.00	5,000.00
105.00	38,115.00	74.00	28,862.00	85.00	30,855.00	105.00	38,115.00	125.00	45,375.00	90.00	32,870.00
7,000.00	14,000.00	5,400.00	10,800.00	5,980.00	11,320.00	7,000.00	14,000.00	7,500.00	15,000.00	800.00	1,200.00
67.00	124,146.00	54.75	119,243.50	75.00	163,350.00	65.00	141,570.00	65.00	141,870.00	70.00	152,480.00
5,000.00	40,000.00	3,050.00	24,400.00	3,320.00	26,560.00	5,500.00	44,000.00	4,000.00	32,000.00	4,500.00	38,000.00
52.00	126,360.00	41.00	99,630.00	65.00	157,950.00	83.00	153,090.00	50.00	121,500.00	65.00	157,950.00
4,000.00	16,000.00	3,200.00	12,800.00	2,850.00	11,400.00	3,500.00	14,000.00	3,200.00	12,800.00	4,250.00	17,000.00
55.00	1,780.00	35.00	1,120.00	55.00	1,780.00	55.00	1,760.00	85.00	2,080.00	60.00	1,820.00
3,500.00	3,500.00	2,100.00	2,100.00	1,820.00	1,820.00	3,500.00	3,500.00	2,200.00	2,200.00	4,000.00	4,000.00
7,000.00	14,000.00	4,500.00	9,000.00	4,031.00	8,062.00	3,500.00	7,000.00	4,600.00	9,200.00	2,000.00	4,000.00
10,000.00	20,000.00	8,350.00	16,700.00	4,100.00	8,200.00	6,000.00	12,000.00	12,000.00	24,000.00	3,000.00	6,000.00
3,100.00	18,600.00	2,000.00	12,000.00	2,376.00	14,256.00	1,500.00	9,000.00	1,750.00	10,500.00	2,000.00	12,000.00
125,000.00	126,000.00	187,000.00	187,000.00	88,625.00	88,625.00	110,000.00	110,000.00	190,000.00	190,000.00	215,000.00	215,000.00
2,500.00	2,500.00	5,500.00	5,500.00	4,500.00	4,500.00	1,500.00	1,500.00	3,800.00	3,800.00	1,500.00	1,500.00
500.00	13,500.00	400.00	10,800.00	200.00	5,400.00	450.00	12,150.00	400.00	10,800.00	1,200.00	32,400.00
10,000.00	10,000.00	9,500.00	9,500.00	3,000.00	3,000.00	7,200.00	7,200.00	10,000.00	10,000.00	10,000.00	10,000.00
SUB-TOTAL, IMPROVEMENTS		\$876,481.00	\$656,807.00	\$566,638.00	\$678,385.00	\$647,225.00	\$884,600.00				

CIP

ITEM NO.	IRWD CODE 6518 CAPITAL SANITARY SEWER	UNIT MEAS	QUAN
29	Mobilization, Erection Construction Water (Not to Exceed 2% of Bid), Complete	LS	1
30	Furnish and Install Traffic Control as Needed, Complete	LS	1
31	Performance, Labor and Payment Bond, Complete	LS	1
32	Construct 60" DIA. Manhole per IRWD Std. S-1, including 1 Raise, Depth = 30 ft-22", Complete	EA	3
33	Furnish and Install 18" PVC (Green) C905, DR 18, Sewer Pipe w/Sewer Indicator Tape, including Trenching, Bedding, Backfill & Compaction per IRWD Standard S-6, Depth = Approximately 17'-22", Complete	LF	438
34	Furnish and Install 20' 3" Steel Casing w/ 60 LB. Anvils at Each End per IRWD Std. DWG. S-7, Complete	LF	148
35	Furnish and Install Temporary 8" Terminal Cleanout per IRWD Std. S-5, including 1 Raise, Complete	EA	1
36	Remove Temporary 8" Terminal Cleanout & Join Existing 18" Sewer Line, Complete	EA	1
37	Raise Man Hole to Final Grade After Improvements are Complete or Requested by Developer including Extra Moves, Complete	EA	3
38	Raise Cleanout to Final Grade After Improvements are Complete or Requested by Developer including Extra Moves, Complete	EA	1
39	Air Test and Video Pipeline Per IRWD Standards & Specifications, Complete	LF	438
40	Additional Clean & Bal Of Sewer, Complete	LS	1
SUB-TOTAL, IMPROVEMENTS			
GRAND TOTAL			

ENGINEER ESTIMATE		L&S Construction Attn: Elton Wehman Tel: 714.528.3232		Kennedy Pipeline Attn: David Chork Tel: 949.380.8363		FYDAQ Attn: Steve Beyer Tel: 714.447.9780		Leatherwood Attn: Bobby Kawai Tel: 714.593.6575		KFC Engineering Attn: James Ellring Tel: 951.734.3010	
PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
3,000.00	3,000.00	1,000.00	1,000.00	2,800.00	2,800.00	500.00	500.00	2,500.00	2,500.00	2,500.00	2,500.00
500.00	500.00	250.00	250.00	1,000.00	1,000.00	1,000.00	1,000.00	500.00	500.00	3,500.00	3,500.00
2,000.00	2,000.00	4,300.00	4,300.00	2,100.00	2,100.00	2,500.00	2,500.00	3,200.00	3,200.00	1,500.00	1,500.00
8,500.00	25,500.00	13,000.00	39,000.00	9,345.00	27,735.00	8,500.00	25,500.00	4,500.00	13,500.00	10,000.00	30,000.00
220.00	98,360.00	137.00	66,089.00	165.00	72,270.00	225.00	98,550.00	150.00	65,700.00	100.00	43,800.00
300.00	44,400.00	270.00	79,960.00	300.00	79,800.00	300.00	44,400.00	300.00	44,400.00	250.00	37,000.00
2,100.00	2,100.00	950.00	950.00	650.00	650.00	1,500.00	1,500.00	1,500.00	1,500.00	4,000.00	4,000.00
2,500.00	7,500.00	2,000.00	6,000.00	3,000.00	9,000.00	1,500.00	4,500.00	2,500.00	7,500.00	2,000.00	6,000.00
500.00	1,500.00	500.00	1,500.00	300.00	900.00	800.00	2,400.00	800.00	2,400.00	1,200.00	3,600.00
450.00	450.00	400.00	400.00	200.00	200.00	450.00	450.00	400.00	400.00	1,200.00	1,200.00
2.00	876.00	4.00	1,752.00	3.00	2,260.00	2.00	876.00	8.00	3,504.00	8.00	3,192.00
2,500.00	2,500.00	2,850.00	2,850.00	1,500.00	1,500.00	1,500.00	1,500.00	3,000.00	3,000.00	2,500.00	2,500.00
SUB-TOTAL, IMPROVEMENTS		\$181,888.00	\$163,889.00	\$149,230.00	\$179,776.00	\$179,776.00	\$179,776.00	\$141,504.00	\$129,790.00	\$129,790.00	\$129,790.00
GRAND TOTAL		\$1,064,948.00	\$964,642.00	\$871,696.00	\$1,064,116.00	\$1,064,116.00	\$1,064,116.00	\$1,064,116.00	\$1,064,116.00	\$1,064,116.00	\$1,064,116.00

EXHIBIT "D"

Bid Tabulations



Owner: Heritage Fields El Toro, LLC

Project: Irvine Blvd Phase 2 - IRWD Capital Wet Utility Improvements Code 6352

Bid Date: 8/6/15

ITEM NO.	IV. DOMESTIC WATER - IRVINE BLVD (CAPITAL) - IRWD CODE 6352	UNIT MEAS	QUAN	ENGINEER ESTIMATE		Leatherwood Construction Attn: Bobby Kawai Tel: 714-593-6575		KEC Engineering Attn: Jim Ehring Tel: 951-734-3010		FYDAQ Attn: Steve Beyer Tel: 714-447-6700		L&S Construction Attn: Elton Wilham Tel: 714-528-3232		Kennedy Phelan Attn: David Chonek Tel: 949-380-8363	
				PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
48	Mobilization, Establish Construction Water (Not to Exceed 2% of Bid), Complete	LS	1	1,500.00	1,500.00	1,500.00	1,500.00	1,000.00	1,000.00	1,500.00	1,500.00	1,400.00	1,400.00	1,000.00	1,000.00
49	Performance, Labor and Payment Bond, Complete	LS	1	1,500.00	1,500.00	1,000.00	1,000.00	700.00	700.00	1,500.00	1,500.00	1,200.00	1,200.00	1,000.00	1,000.00
50	Join 12" PVC to Existing 36" Line, Complete	EA	1	4,000.00	4,000.00	3,900.00	3,900.00	2,900.00	2,900.00	3,000.00	3,000.00	3,300.00	3,300.00	5,000.00	5,000.00
51	Furnish and Install 36"x36"x12"x12" CMU/CSF Cut-in Dress Fgd w/ Insulating Flange Kit & Slip-On Flange per IRWD Std. Dwg. C919 & 10, Connection Detail 1 on Sheet 6 & IRWD Specs., including Disposal of Water and All Other Appurtenances, Complete	EA	1	30,000.00	30,000.00	32,000.00	32,000.00	22,800.00	22,800.00	50,000.00	50,000.00	29,500.00	29,500.00	15,000.00	15,000.00
52	Furnish and Install 12" PVC, C900, DR 14, w/ Trench and Bedding per IRWD Std. Dwg. W-17, including all Bedding, Backfill and any other Appurtenances, Complete	LF	70	175.00	12,250.00	300.00	21,000.00	200.00	14,000.00	210.00	14,700.00	200.00	14,000.00	150.00	10,500.00
53	Furnish and Install 12" Butterfly Valve, CL 150#, App. Valve Box per IRWD Std. Dwg. W-22, Complete	EA	2	5,500.00	11,000.00	4,500.00	9,000.00	8,100.00	12,200.00	8,000.00	16,000.00	3,400.00	10,800.00	3,564.00	7,128.00
54	Raise 12" Butterfly Valve Can to Final Grade, Complete	EA	2	500.00	1,000.00	350.00	700.00	520.00	1,040.00	1,000.00	2,000.00	750.00	1,500.00	750.00	1,500.00
55	Furnish and Install Temporary Flush-Out Assembly per IRWD Std. Dwg. W-12, Complete	EA	1	2,800.00	2,800.00	1,650.00	1,650.00	7,500.00	7,500.00	4,000.00	4,000.00	2,450.00	2,450.00	5,500.00	5,500.00
56	Raise Temporary Flush-Out Valve Can to Final Grade, Complete	EA	1	500.00	500.00	350.00	350.00	520.00	520.00	1,000.00	1,000.00	750.00	750.00	750.00	750.00
57	Demu, Remove, Haul to On-Site Location & Replace Existing Pavement per City Std. 223, All "A", including all Grading, Overlay Existing Pavement Section 7" AC(19) AS, Assume Trench Width = 6', Complete	SF	180	30.00	5,400.00	40.00	7,200.00	36.50	6,570.00	20.00	3,600.00	25.00	4,500.00	40.00	7,200.00
58	Sawcut Existing AC Pavement, Complete	LF	80	5.00	400.00	10.00	800.00	3.30	264.00	2.00	160.00	5.00	400.00	5.00	400.00
59	Chemicals and Pressure Test, including Disposal of Chlorinated Water, Complete	LF	70	25.00	1,750.00	28.00	1,960.00	37.30	2,611.00	55.00	3,850.00	21.00	1,470.00	5.00	360.00
SUB-TOTAL, IMPROVEMENTS					\$72,100.00		\$81,160.00		\$72,105.00		\$103,319.00		\$71,220.00		\$51,324.00

ITEM NO.	DESCRIPTION	UNIT MEAS	QUAN	ENGINEER ESTIMATE		Leatherwood Construction Attn: Bobby Kaval Tel: 714-563-6575		KEC Engineering Attn: Jim Effing Tel: 951-734-3010		FYDAG Attn: Steve Beyer Tel: 714-447-9760		L&S Construction Attn: Elton Wehman Tel: 714-528-3232		Kennedy Pipeline Attn: David Chork Tel: 949-380-8363	
				PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
				1											
60	VI, RECYCLED WATER - IRVINE BLVD (CAPITAL) - IRWD CODE 6362														
60	Mobilization, Establish Construction Water (Not to Exceed 2% of Bid), Complete	LS	1	20,000.00	20,000.00	18,000.00	18,000.00	5,000.00	5,000.00	1,500.00	1,500.00	19,000.00	19,000.00	15,000.00	15,000.00
61	Performance, Labor and Payment Bond, Complete	LS	1	12,000.00	12,000.00	10,000.00	10,000.00	10,000.00	10,000.00	12,500.00	12,500.00	17,500.00	17,500.00	15,000.00	15,000.00
62	Cold Tap Ex. 24" C.P. Recycled Water Line, Install 24"x20" Weld-On Nozzle per IRWD Std.	EA	1	17,000.00	17,000.00	17,000.00	17,000.00	7,500.00	7,500.00	20,000.00	20,000.00	32,500.00	32,500.00	7,850.00	7,850.00
63	Spun-Bollocks, AWWA M9 Manual & Details on Sheet 17, Complete	EA	1	3,500.00	3,500.00	3,750.00	3,750.00	6,500.00	6,500.00	15,000.00	15,000.00	8,500.00	8,500.00	4,750.00	4,750.00
64	Remove Temp 20" Blind Flange & Join Existing 20"x20" D.I. Tee, Complete	EA	1												
65	Furnish and Install 6" PVC (Purple), C900, DR 14, w/ Trench & Bedding per IRWD Std. Dwg. W-17, including all Bedding, Backfill and any other Appurtenances, Complete	LF	111	130.00	14,430.00	125.00	13,875.00	167.00	20,757.00	190.00	21,090.00	190.00	14,430.00	115.00	12,765.00
66	Furnish and Install 10" PVC (Purple), C900, DR 14, w/ Trench & Bedding per IRWD Std. Dwg. W-17, including all Bedding, Backfill and any other Appurtenances, Complete	LF	76	185.00	11,780.00	185.00	13,840.00	230.00	17,480.00	205.00	15,580.00	195.00	14,820.00	130.00	9,890.00
68	Furnish and Install 10" DIP, CL 300, Spool, F&E, w/ Trench & Bedding per IRWD Std. Dwg. W-17, including all Bedding, Backfill and any other Appurtenances, Complete	LF	7	185.00	1,295.00	1,300.00	9,100.00	850.00	5,950.00	225.00	1,575.00	350.00	2,450.00	180.00	1,050.00
67	Furnish and Install 20" PVC (Purple) C900, DR 18, w/ Trench & Bedding per IRWD Std. Dwg. W-17, including all Bedding, Backfill and any other Appurtenances, Complete	LF	2,183	228.00	491,175.00	235.00	513,005.00	280.00	611,240.00	250.00	545,750.00	310.00	676,730.00	225.00	481,175.00
68	Furnish and Install 6" Resilient Wedge Gate Valve, CL 150, Fig. Valve Box per IRWD Std. Dwg. W-22, including 1 Raise to Base Course, Complete	EA	1	2,800.00	2,800.00	1,550.00	1,550.00	10,000.00	10,000.00	4,800.00	4,800.00	1,650.00	1,650.00	1,380.00	1,350.00
69	Raise 10" Gate Valve Can to Final Grade, Complete	EA	1	300.00	300.00	350.00	350.00	320.00	320.00	520.00	1,000.00	1,000.00	500.00	790.00	
71	Furnish and Install 10" Resilient Wedge Gate Valve, CL 150, Fig. Valve Box per IRWD Std. Dwg. W-22, including 1 Raise to Base Course, Complete	EA	2	4,500.00	9,000.00	2,900.00	5,800.00	10,000.00	20,000.00	5,200.00	10,400.00	3,800.00	7,600.00	3,382.00	6,764.00
72	Raise 10" Gate Valve Can to Final Grade, Complete	EA	2	500.00	1,000.00	350.00	700.00	420.00	840.00	1,000.00	2,000.00	500.00	1,000.00	750.00	1,500.00
73	Furnish and Install 16" Butterfly Valve, CL 150B, Fig. Valve Box per IRWD Std. Dwg. W-22, including 1 Raise to Base Course, Complete	EA	1	10,000.00	10,000.00	7,300.00	7,300.00	6,000.00	6,000.00	8,000.00	8,000.00	6,800.00	6,800.00	7,000.00	7,000.00
74	Raise 16" Butterfly Valve Can to Final Grade, Complete	EA	1	500.00	500.00	350.00	350.00	520.00	520.00	1,000.00	1,000.00	500.00	500.00	750.00	750.00
75	Furnish and Install 20" Butterfly Valve, CL 150B, Fig. Valve Box per IRWD Std. Dwg. W-22, including 1 Raise to Base Course, Complete	EA	4	13,500.00	54,000.00	11,000.00	44,000.00	13,600.00	54,400.00	20,000.00	80,000.00	13,500.00	54,000.00	9,000.00	36,000.00
76	Raise 20" Butterfly Valve Can to Final Grade, Complete	EA	4	600.00	2,400.00	350.00	1,400.00	320.00	1,280.00	1,000.00	4,000.00	750.00	3,000.00	750.00	3,000.00
77	Furnish and Install 6" Blow-Off Assembly, Case 3, per IRWD Std. Dwg. W-14, including 1 Raise to Base Course, Complete	EA	2	13,000.00	26,000.00	15,000.00	30,000.00	12,000.00	24,000.00	15,000.00	30,000.00	6,800.00	13,600.00	5,800.00	11,600.00
78	Raise 6" Blow-Off Valve Can to Final Grade, Complete	EA	2	600.00	1,200.00	350.00	700.00	520.00	1,040.00	1,000.00	2,000.00	750.00	1,500.00	750.00	1,500.00
79	Furnish and Install 2" Air/Vac Assembly, Case 3, per IRWD Std. Dwg. W-11, including 1 Raise to Base Course, Complete	EA	3	5,500.00	16,500.00	7,700.00	23,100.00	5,900.00	17,700.00	8,000.00	24,000.00	3,850.00	11,550.00	3,500.00	10,500.00
80	Raise Air/Vac Valve Can to Final Grade, Complete	EA	3	600.00	1,800.00	350.00	1,050.00	320.00	960.00	1,000.00	3,000.00	800.00	2,400.00	750.00	2,250.00
81	Furnish and Install Temporary Flush-Out Assembly per IRWD Std. Dwg. W-12, including 1 Raise to Base Course, Complete	EA	2	3,300.00	6,600.00	1,350.00	2,700.00	5,300.00	10,600.00	4,000.00	8,000.00	2,450.00	4,900.00	5,600.00	11,000.00
82	Raise Temporary Flush-Out Valve Can to Final Grade, Complete	EA	2	500.00	1,000.00	350.00	700.00	320.00	640.00	1,000.00	2,000.00	750.00	1,500.00	750.00	1,500.00
83	Demo & Remove 12 LF of Existing 3x6 HDPE, Install Block & Mortar Plugs on Each Side of Removal. See detail 3 on Sheet 9, Complete	LS	1	10,000.00	10,000.00	2,300.00	2,300.00	18,000.00	18,000.00	10,000.00	10,000.00	4,500.00	4,500.00	3,750.00	3,750.00
84	Demo, Remove, Haul to On-Site Location & Replace Existing Pavement per City Std. 223, All "A", including all Grinding, Overlay Existing Pavement Section 7' AC/18" AB, Assumed Trench Width = 6', Complete	SF	14,026	15.00	210,375.00	12.00	168,360.00	11.20	156,256.00	18.00	210,775.00	22.00	308,110.00	40.00	560,200.00
85	Gravel Existing AC Pavement, Complete	LF	4,736	2.00	9,472.00	2.00	9,472.00	2.00	9,472.00	3.00	14,208.00	3.00	14,372.00	5.00	23,990.00
86	Pressure Test Pipe, Complete	LF	2,407	2.00	4,814.00	3.00	7,221.00	4.40	10,590.80	3.00	7,221.00	3.00	7,221.00	5.00	12,035.00
87	Furnish and Install 16"x16"x10" D.I. Cut-in Cross, Fig'd w/ Thrust Blocks per IRWD Std. W-16 & W-19, including Disposal of Water and All Other Appurtenances, Complete	EA	1	15,000.00	15,000.00	14,200.00	14,200.00	9,800.00	9,800.00	20,000.00	20,000.00	12,900.00	12,900.00	12,000.00	12,000.00
88	Furnish and Install 16"x16"x6" D.I. Cut-in Tee, Fig'd w/ Thrust Blocks per IRWD Std. W-16 & W-19, including Disposal of Water and All Other Appurtenances, Complete	EA	1	12,000.00	12,000.00	10,600.00	10,600.00	8,200.00	8,200.00	20,000.00	20,000.00	12,900.00	12,900.00	8,500.00	8,500.00
SUB-TOTAL IMPROVEMENTS					\$983,048.00		\$840,831.00		\$1,195,728.30		\$1,099,844.00		\$1,275,131.00		\$1,280,809.00

ITEM NO.	DESCRIPTION	UNIT MEAS	QUAN	ENGINEER ESTIMATE		Leatherwood Construction Attn: Bobby Kaval Tel: 714-563-6575		KEC Engineering Attn: Jim Effing Tel: 951-734-3010		FYDAG Attn: Steve Beyer Tel: 714-447-9760		L&S Construction Attn: Elton Wehman Tel: 714-528-3232		Kennedy Pipeline Attn: David Chork Tel: 949-380-8363	
				PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
				1											
89	VI, SANITARY SEWER - IRVINE BLVD (CAPITAL) - IRWD CODE 6362														
89	Mobilization, Establish Construction Water (Not to Exceed 2% of Bid), Complete	LS	1	1,000.00	1,000.00	1,100.00	1,100.00	1,000.00	1,000.00	1,500.00	1,500.00	660.00	660.00	3,000.00	3,000.00
90	Performance, Labor and Payment Bond, Complete	LS	1	1,000.00	1,000.00	700.00	700.00	750.00	750.00	1,200.00	1,200.00	500.00	500.00	3,000.00	3,000.00
91	Furnish and Install 6" PVC, SDR 35, Sewer Lateral, per IRWD Std. Dwg. S-3, including Cut-in Wye per IRWD Std. S-4, Raise Box, Frame and Cover to Final Grade, Complete	EA	2	10,000.00	20,000.00	20,000.00	40,000.00	22,800.00	45,600.00	25,000.00	50,000.00	3,850.00	7,700.00	50,000.00	100,000.00
92	Furnish and Install 6" Terminal Checkout per IRWD Std. Dwg. S-5, Complete	EA	2	3,000.00	6,000.00	1,200.00	2,400.00	1,900.00	3,800.00	3,000.00	6,000.00	1,290.00	2,580.00	1,500.00	3,000.00
93	Demo, Remove, Haul to On-Site Location & Replace Existing Pavement per City Std. 223, All "A", including all Grinding, Overlay Existing Pavement Section 7' AC/18" AB, Assumed Trench Width = 10', Complete	SF	600	25.00	15,000.00	20.00	12,000.00	17.30	10,380.00	20.00	12,000.00	25.00	15,000.00	85.00	39,000.00
94	Rebuild Existing AC Pavement, Complete	LF	160	5.00	800.00	5.00	800.00	3.20	512.00	2.00	320.00	4.00	640.00	40.00	640.00
95	Hydro Jet Cleaner, Complete	LF	83	28.00	2,316.00	30.00	2,490.00	130.00	10,790.00	30.00	1,680.00	30.00	2,460.00	85.00	7,055.00
96	Video Sewer, Complete	LS	1	3,000.00	3,000.00	700.00	700.00	2,700.00	2,700.00	2,000.00	2,000.00	2,850.00	2,850.00	2,500.00	2,500.00
SUB-TOTAL IMPROVEMENTS					\$50,875.00		\$69,190.00		\$75,498.00		\$78,630.00		\$32,420.00		\$183,955.00
GRAND TOTAL					\$1,106,024.00		\$1,082,281.00		\$1,253,331.30		\$1,281,654.00		\$1,373,771.00		\$1,500,092.00

IRVINE RANCH WATER DISTRICT EXHIBIT "E"

Expenditure Authorization

Project Name: PA51 IRVINE BLVD, LAMBERT TO Z ST 12" DW
 EPMS Project No: 11809 EA No: 1
 Oracle Project No: 6016
 Project Manager: LEW, KELLY
 Project Engineer: KESSLER, CHRISTIAN
 Request Date: January 31, 2016

ID Split: Miscellaneous

Improvement District (ID) Allocations

ID No.	Allocation %	Source of Funds
112	98.2	BONDS YET TO BE SOLD**
153	1.8	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$156,200
Total EA Requests:	\$156,200
Previously Approved Budget:	\$34,100
Budget Adjustment Requested this EA:	\$122,100
Updated Budget:	\$156,200
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	8,000	0	8,000	6,000	2,000	8,000	12/14	2/16
ENGINEERING DESIGN - OUTSIDE	4,000	0	4,000	2,000	2,000	4,000	12/14	2/16
DESIGN STAFF FIELD SUPPORT	5,000	0	5,000	4,000	1,000	5,000	12/14	2/16
ENGINEERING - CA&I IRWD	10,000	0	10,000	8,000	2,000	10,000	3/16	6/17
ENGINEERING - CA&I OUTSIDE	8,000	0	8,000	6,000	2,000	8,000	3/16	6/17
CONSTRUCTION FIELD SUPPORT	5,000	0	5,000	4,000	1,000	5,000	3/16	6/17
CONSTRUCTION	100,000	0	100,000	80,000	20,000	100,000	3/16	6/17
LEGAL	2,000	0	2,000	1,000	1,000	2,000	12/14	6/17
Contingency - 10.00% Subtotal	\$14,200	\$0	\$14,200	\$11,100	\$3,100	\$14,200		
Subtotal (Direct Costs)	\$156,200	\$0	\$156,200	\$122,100	\$34,100	\$156,200		
Estimated G/A - 185.00% of direct labor*	\$51,900	\$0	\$51,900	\$40,700	\$11,200	\$51,900		
Total	\$208,100	\$0	\$208,100	\$162,800	\$45,300	\$208,100		
Direct Labor	\$28,000	\$0	\$28,000	\$22,000	\$6,000	\$28,000		

*EA includes estimated G&A. Actual G&A will be applied based on the current ratio of direct labor to general and administrative costs.

EA Originator:

Christian Kessler KAL 2/2/16

Department Director:

Kevin L. Burton 2/3/16

Finance:

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$213,000, as further described in the attached staff report and additional documents, if any, which are hereby incorporated into this authorization. It is the official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-2.

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 IRVINE BLVD, LAMBERT TO Z ST 16" SS
 EPMS Project No: 21809 EA No: 1
 Oracle Project No: 6017
 Project Manager: LEW, KELLY
 Project Engineer: KESSLER, CHRISTIAN
 Request Date: January 31, 2016

ID Split: Miscellaneous

Improvement District (ID) Allocations

ID No.	Allocation %	Source of Funds
212	22.9	BONDS YET TO BE SOLD**
253	77.1	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$115,500
Total EA Requests:	\$115,500
Previously Approved Budget:	\$28,600
Budget Adjustment Requested this EA:	\$86,900
Updated Budget:	\$115,500
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	7,000	0	7,000	5,000	2,000	7,000	12/14	2/16
ENGINEERING DESIGN - OUTSIDE	3,000	0	3,000	1,000	2,000	3,000	12/14	2/16
DESIGN STAFF FIELD SUPPORT	4,000	0	4,000	3,000	1,000	4,000	12/14	2/16
ENGINEERING - CA&I IRWD	7,000	0	7,000	5,000	2,000	7,000	3/16	6/17
ENGINEERING - CA&I OUTSIDE	8,000	0	8,000	6,000	2,000	8,000	3/16	6/17
CONSTRUCTION FIELD SUPPORT	5,000	0	5,000	4,000	1,000	5,000	3/16	6/17
CONSTRUCTION	70,000	0	70,000	55,000	15,000	70,000	3/16	6/17
LEGAL	1,000	0	1,000	0	1,000	1,000	12/14	6/17
Contingency - 10.00% Subtotal	\$10,500	\$0	\$10,500	\$7,900	\$2,600	\$10,500		
Subtotal (Direct Costs)	\$115,500	\$0	\$115,500	\$86,900	\$28,600	\$115,500		
Estimated G/A - 185.00% of direct labor*	\$42,700	\$0	\$42,700	\$31,500	\$11,200	\$42,700		
Total	\$158,200	\$0	\$158,200	\$118,400	\$39,800	\$158,200		
Direct Labor	\$23,000	\$0	\$23,000	\$17,000	\$6,000	\$23,000		

*EA includes estimated G&A. Actual G&A will be applied based on the current ratio of direct labor to general and administrative costs.

EA Originator:

Christina Kelly AKL 2/2/16

Department Director:

Kevin J. Burton 2/3/16

Finance:

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$16 additional documents, if any, which are hereby incorporated into this project is made under Treasury Regulation Section 1.150-2

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 IRVINE BLVD, LAMBERT TO Z ST 20" RW
 EPMS Project No: 31809 EA No: 1
 Oracle Project No: 6018
 Project Manager: LEW, KELLY
 Project Engineer: KESSLER, CHRISTIAN
 Request Date: January 31, 2016

ID Split: Miscellaneous

Improvement District (ID) Allocations

ID No.	Allocation %	Source of Funds
212	99.6	BONDS YET TO BE SOLD**
253	.4	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$1,412,400
Total EA Requests:	\$1,412,400
Previously Approved Budget:	\$609,400
Budget Adjustment Requested this EA:	\$803,000
Updated Budget:	\$1,412,400
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	30,000	0	30,000	0	30,000	30,000	12/14	2/16
ENGINEERING DESIGN - OUTSIDE	40,000	0	40,000	0	40,000	40,000	12/14	2/16
DESIGN STAFF FIELD SUPPORT	40,000	0	40,000	30,000	10,000	40,000	12/14	2/16
ENGINEERING - CA&I IRWD	60,000	0	60,000	30,000	30,000	60,000	3/16	6/17
ENGINEERING - CA&I OUTSIDE	80,000	0	80,000	40,000	40,000	80,000	3/16	6/17
CONSTRUCTION FIELD SUPPORT	40,000	0	40,000	30,000	10,000	40,000	3/16	6/17
CONSTRUCTION	990,000	0	990,000	600,000	390,000	990,000	3/16	6/17
LEGAL	4,000	0	4,000	0	4,000	4,000	12/14	6/17
Contingency - 10.00% Subtotal	\$128,400	\$0	\$128,400	\$73,000	\$55,400	\$128,400		
Subtotal (Direct Costs)	\$1,412,400	\$0	\$1,412,400	\$803,000	\$609,400	\$1,412,400		
Estimated G/A - 185.00% of direct labor*	\$314,500	\$0	\$314,500	\$166,500	\$148,000	\$314,500		
Total	\$1,726,900	\$0	\$1,726,900	\$969,500	\$757,400	\$1,726,900		
Direct Labor	\$170,000	\$0	\$170,000	\$90,000	\$80,000	\$170,000		

*EA includes estimated G&A. Actual G&A will be applied based on the current ratio of direct labor to general and administrative costs.

EA Originator:

Christian Kessler KNL 2/2/16

Department Director:

Laura L. Burton 2/3/16

Finance:

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$1,76 additional documents, if any, which are hereby incorporated project is made under Treasury Regulation Section 1.150-2.

March 14, 2016

Prepared by: T. Bonkowski/M. Cortez

Submitted by: K. Burton *KLB*

Approved by: Paul Cook *Paul Cook*

CONSENT CALENDAR

CULVER DRIVE SEWER MANHOLE IMPROVEMENTS
FINAL ACCEPTANCE

SUMMARY:

The Culver Drive Sewer Manhole Improvements project is complete. The Contractor, Paulus Engineering, Inc., has completed the required work and all punch list items. This project has received final inspection and acceptance of construction is recommended.

BACKGROUND:

The Culver Drive Trunk Sewer was constructed in 1970 with manholes that have 24-inch diameter covers. These openings do not provide adequate access to District personnel and hinder the use of emergency bypass equipment. This project replaced the existing covers on 11 manholes with 36-inch diameter covers and constructed all appurtenant improvements including manhole shaft and cone sections, coating, grade rings, frames, covers and replacement of street section. The manholes are located within Culver Drive between Main Street and Deerfield Avenue.

Project Title:	Culver Drive Sewer Manhole Improvements
Project No.:	5450
Design Engineer:	Linkture Consulting Engineers
Construction Management by:	IRWD Staff
Contractor:	Paulus Engineering Inc.
Original Contract Cost:	\$319,013.00
Final Contract Cost:	\$366,224.39
Original Contract Days:	100
Final Contract Days:	106
Final Change Order Approved On:	February 22, 2016

FISCAL IMPACTS:

Project 5450 is included in the FY 2015-16 Capital Budget. The existing budget and Expenditure Authorization 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 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 was filed with the County of Orange on June 3, 2015.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD ACCEPT CONSTRUCTION OF THE CULVER DRIVE SEWER MANHOLE IMPROVEMENTS, PROJECT 5450; 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.

LIST OF EXHIBITS:

None.

March 14, 2016

Prepared by: S. Toland/R. Mori

Submitted by: K. Burton

Approved by: Paul Cook



CONSENT CALENDAR

BAKER WATER TREATMENT PLANT CONTRACT CHANGE ORDER

SUMMARY:

PCL Construction is constructing the Baker Water Treatment Plant (Baker WTP), which is approximately 82% complete. Staff recommends the Board approve Contract Change Order No. 14 for the installation of roof soffits at various buildings in the amount of \$357,883 with PCL for the Baker WTP.

BACKGROUND:

The Baker WTP is a regional project that will produce up to 28 million gallons per day, or 43.5 cubic feet per second, of drinking water. The source water for this facility will be untreated imported water from Metropolitan Water District of Southern California and local water from Irvine Lake. Project participants include El Toro Water District, Moulton Niguel Water District, Santa Margarita Water District, Trabuco Canyon Water District (TCWD), and IRWD. The Baker WTP will utilize microfiltration and ultraviolet disinfection as the primary treatment processes. The project also includes the construction of the Baker Raw Water Conveyance Facility that will pump water from Irvine Lake to the Baker WTP. These facilities will provide an operational source of supply and, in the event of short-term water shortage emergencies, will enhance water reliability for the project participants. Construction of both projects began in January 2014.

Baker WTP Contract Change Order No. 14:

Staff and PCL completed negotiations for Contract Change Order No. 14, attached as Exhibit "A", for the installation of roof soffits at the Flow Control Facility, TCWD Pump Station, MF Feed Pump Station, Treatment Building, Product Water Pump Station, and Chemical Building. The soffits are recommended to provide a weather-tight closure of the building roofing systems and to enclose the underside of the metal roof decking and roof framing, which per design, were left as exposed construction. The addition of the soffits will seal the buildings from exposure to the environment and will minimize the potential for birds, insects, and vermin to nest in and around the exposed roof eaves. The cost for the addition of the soffits is \$357,883, and PCL confirmed that there is sufficient time in the schedule to perform this work. A summary of Baker WTP change orders to date is provided as Exhibit "B".

Staff reviewed the change order and recommends Board approval of Contract Change Order No. 14 in the amount of \$357,883. In accordance with the Baker WTP Agreement, the Baker Project Committee approved this change order at the January 14, 2016 Baker Project Committee meeting.

FISCAL IMPACTS:

Project 5027 is included in the FY 2015-16 Capital Budget. The existing budget is sufficient to fund the contract change order.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA) and an Environmental Impact Report (EIR) was prepared in conformance with California Code of Regulations Title 14, Chapter 3, Article 7. The Final EIR was certified and adopted by the Board in April 2011. Addenda No. 1 and No. 2 to the EIR were prepared in accordance with Section 15164 of the CEQA Guidelines and were approved by the Board in February 2012 and March 2013, respectively.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on February 16, 2016.

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 14 IN THE AMOUNT OF \$357,883 WITH PCL CONSTRUCTION FOR THE BAKER WATER TREATMENT PLANT, PROJECT 5027.

LIST OF EXHIBITS:

Exhibit "A" – Contract Change Order No. 14
Exhibit "B" – Baker WTP Contract Change Order Summary Log

CON EXHIBIT "A" ORDER

IRVINE RANCH WATER DISTRICT
 15600 Sand Canyon Avenue
 Irvine, California 92619
 (949) 453-5300
 Baker WTP



C.O. No. 014
 Final
 Project No. 11747(5027)
 Date: 02/01/16

Project Title _____

THE FOLLOWING CHANGE TO CONTRACT, DRAWINGS AND SPECIFICATIONS IS PROPOSED.	\$ ADDITIONS	\$ DELETIONS	DAYS ±
Provide soffits to the exterior perimeter eaves of the Flow Control Facility and the TCWD pump station and to the exterior perimeter eaves of both the upper and lower roofs at the MF Feed Pump Station, Treatment Building, Product Water Pump Station, and Chemical Building.	\$357,883.00	\$0.00	0
This change order provides for an all-inclusive settlement for the work described herein and direct, supplemental, indirect, consequential and cumulative costs and delays associated with the work. Contractor's signature represents a waiver of any and all rights to file a claim on account of these changes.			
TOTAL	\$357,883.00	\$0.00	0

DAYS ±

1. NET AMOUNT THIS CHANGE ORDER	=	\$357,883.00	0
2. ORIGINAL CONTRACT AMOUNT	=	\$77,520,613.00	820
3. TOTAL PREVIOUS CHANGE ORDER(S)	=	\$268,063.00	10
4. TOTAL BEFORE THIS CHANGE ORDER (2+ 3)	=	\$77,788,676.00	830
5. PROPOSED REVISED CONTRACT AMOUNT TO DATE (1+4)	=	\$78,146,559.00	830

We hereby agree to make the above change subject to the terms of this change order for the sum of \$357,883.00

Three hundred fifty-seven thousand eight hundred eighty-three and no/100s and no additional time -----

Dollars

2-516
 Date

PCL Construction
 Contractor

By: Dana Lebeda, Project Manager

SIGNATURE	DATE	APPROVAL LEVEL REQUIRED
	<u>2/5/16</u> Date	Department Director Approval Required <input type="checkbox"/>
IRWD Engineer or Consulting Engineer		Executive Director Approval Required <input type="checkbox"/>
	<u>02/09/16</u> Date	General Manager Approval Required <input type="checkbox"/>
Principal Engineer		Board Approval Required <input checked="" type="checkbox"/>
	<u>2/9/16</u> Date	
Executive Director of Engineering & Water Quality		
General Manager		517629
		Purchase Order No.

NOTE: The documents supporting this Change Order, including any drawings and estimates of cost, if required are attached hereto and made a part hereof. This Change Order shall not be considered as such until it has been signed by the Owner and the Contractor. Upon final approval, distribution of copies will be made as required. The parties mutually agree the pricing set forth in this Change Order are complete and fair compensation for the entirety of the work authorized under this Change Order and that no additional compensation is warranted nor shall it be allowed.

CHANGES: All workmanship and materials called for by this Change Order shall be fully in accord with the original Contract Documents insofar as the same may be applied without conflict to the conditions set forth by this Change Order. The time for completing the contract will not be extended unless expressly provided for in this Change Order.

EXHIBIT "B"

**Baker WTP
PR 11747 (\$027)
Construction Change Order Summary**

Date: January 29, 2016
Contractor: PCL Construction
Design Engineer: RBF/Carollo

Change Order No.	Description	Category	Approved by Baker PC	Contract Amount						Contract Days				Original Completion Date:
				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 Order Days	Cum. Change Order Days	Revised Total Contract Days	4/5/2016
														Original Contract Amount: \$77,520,613.00
1	Approved by General Manager Approved on June 5, 2014 CR-1: Modifications to the 8-inch irrigation pipeline pressure reducing station PRVs. CR-11: Removal and disposal of hazardous materials, mercury.	A B	Not required	\$ 44,737.00 \$ 41,966.00 \$ 2,771.00	\$ 44,737.00	\$ -	\$ 44,737.00	0.06%	\$77,565,350.00	0	0	0	820	4/5/2016
2	Approved by Executive Director of Eng. and WQ Approved on October 28, 2014 CR-4: Modify contract price for inflation adjustment to Pall membrane filtration system purchase order. CR-6: Modify contract price for inflation adjustment to Wedeco UV system purchase order.	A A	Not required	\$ 44,737.00 \$ 41,966.00 \$ 2,771.00	\$ 44,737.00	\$ 44,737.00	\$ 89,474.00	-0.11%	\$ 77,438,430.00	0	0	0	820	4/5/2016
3	Approved by Executive Director of Eng. and WQ Approved on October 28, 2014 CR-2A: Delete poly coated chain link swing gate and replace with an ornamental swing gate and add perforated screen to swing and slide gates. CR-7: Provide bent steel plate for dewatering building roof and an H-20 Bilco steel hatch at treatment building. CR-12: Revise doors and hardware and add card readers.	D D D	Not required	\$ 72,631.00 \$ 10,747.00 \$ 16,331.00 \$ 45,553.00	\$ 72,631.00	\$ 72,631.00	\$ 145,262.00	-0.01%	\$77,511,061.00	0	0	0	820	4/5/2016
4 (PWPS)	Approved by Executive Director of Eng. and WQ Approved on November 20, 2014 CR-3: Modifications to the SCP valve vault piping and appurtenances per MWD post-bid revisions. CR-13: Over excavation and removal of unsuitable soils in the PWPS area.	C B	Not required	\$ 42,312.00 \$ 6,095.00 \$ 36,217.00	\$ 42,312.00	\$ 42,312.00	\$ 88,574.00	0.04%	\$77,553,373.00	0	0	0	820	4/5/2016
5	Approved by Executive Director of Eng. and WQ Approved on December 10, 2014 CR-5: SCE service plan modifications received after bid date. CR-9: Delete removal of 24-inch ACP, add 10 cy concrete for plug, add removal and disposal of 20 cy rubble and add site glass for the flocculator gear boxes. CR-10: Design clarification for the fire and utility water systems at the treatment building. CR-14: T&M 1, over excavation of unsuitable soils at dewatering facility \$7,469. T&M 2, clean and coat flange serving TCWD raw water line \$689. T&M 3, new loose flange for installation of blind flange \$1,036. T&M 5, relocate drain piping under pipe gallery \$3,638. CR-18: Rebar for pipe encasement at CT basin 42-inch pipe. CR-21: Change from Multiin to Schweitzer for power monitors and relays.	C B A B D A	Not required	\$ 49,562.00 \$ 8,032.00 \$ 2,736.00 \$ - \$ 12,832.00 \$ 3,904.00 \$ -	\$ 49,562.00	\$ 32,760.00	\$ 82,322.00	0.11%	\$77,602,935.00	0	0	0	820	4/5/2016

**Baker WTP
PR 11747 (5027)
Construction Change Order Summary**

Date: January 29, 2016
Contractor: PCL Construction
Design Engineer: RBF/Carollo

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$77,520,613.00						Original Days: 820				4/5/2016
Change Order No.	Description	Category	Approved by Baker PC	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 Order Days	Cum. Change Order Days	Revised Total Contract Days	Revised Completion Date
5 (cont.)	<p>CR-22: Provide fire sprinkler system in HCL room in chemical building.</p> <p>CR-24: Revise drain line and davit sleeves for Disposal EQ basin.</p> <p>CR-29: Provide stainless steel wear rings for vertical turbine pump bowls and impellers.</p> <p>CR-32: Provide and install additional lap rebar for CMU block wall at chemical building.</p>	C		\$ 3,034.00										
		E		\$ -										
		D		\$ 15,871.00										
		D		\$3,153.00										
6	<p>Approved by Executive Director of Eng. and WQ Approved on January 20, 2015</p> <p>CR-015: Provide mini power centers and change mufflers from carbon steel to stainless steel.</p> <p>CR-020: Provide remote motor controller, flow and level sensor transmitters for Disposal EQ basin.</p> <p>CR-026: Delete unneeded davit sleeves and provide shorter sleeves per alternate listed supplier.</p> <p>CR-030: Remove unknown concrete in 30-inch storm drain trench.</p> <p>CR-031: Provide larger roof hatches and mineral wool sound insulation at the MF Feed pump station.</p> <p>CR-033: Provide 2-inch hub drain with tubing for AC equipment in chlorine dioxide room, Chemical Building.</p> <p>CR-035: Provide additional steel tube framing for lower canopies at Treatment Building.</p> <p>CR-037: Provide double check valve back flow preventers and associated piping and valves for the OCFA connections at the Chemical Building, Treatment Building and MF Feed pump station.</p> <p>CR-039: Provide increased insurance limits of \$5,000,000 for the General Liability and Automotive Policies.</p> <p>CR-044: Provide spray nozzles for screw conveyors at Dewatering Facility</p>	B	Not Required	\$2,090.00	\$25,759.00	\$ 82,322.00	\$ 108,081.00	0.14%	\$77,628,694.00	0	0	0	820	4/5/2016
		A		No cost										
		D		(\$6,357.00)										
		B		\$ 3,251.00										
		D		\$ 7,365.00										
		D		\$ 2,948.00										
		D		\$ 2,731.00										
		C		\$ 11,365.00										
		A		\$ 1,290.00										
		A		\$1,076										
7	<p>Approved by Executive Director of Eng. and WQ Approved on May 29, 2015</p> <p>CR-034: Provide slurry backfill at Treatment Bldg.</p> <p>CR-036: Provide conduit for future electric service at TCWD pump station and rotate panels at Chemical Building.</p> <p>CR-040: Add hollow metal door for electrical room in TCWD pump station</p> <p>CR-043: Relocate vendor control panel (VCP 1150) in Chemical Building</p> <p>CR-045: Revise exterior lighting in various locations</p> <p>CR-051: Provide a credit for eight stainless steel sample taps supplied by IRWD.</p>	B	Not Required	\$8,221.00	\$ 30,456.00	\$ 108,081.00	\$ 138,537.00	0.18%	\$77,659,150.00	0	0	0	820	4/5/2016
		D		\$5,984.00										
		D		\$5,669.00										
		B		\$1,255.00										
		D		\$0.00										
		A		\$11,728.00										

**Baker WTP
PR 11747 (S027)
Construction Change Order Summary**

Date: January 29, 2016
Contractor: PCL Construction
Design Engineer: RBF/Carollo

				Contract Amount						Contract Days				Original Completion Date:
Change Order No.	Description	Category	Approved by Baker PC	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 Order Days	Cum. Change Order Days	Revised Total Contract Days	Original Completion Date:
														Original Contract Amount: \$77,520,613.00
7 (cont)	<u>CR-052</u> : Unmarked 2-inch waterline, Palmwood Dr. <u>CR-053</u> : Revise footings in Dewatering Building. <u>CR-054</u> : Add horizontal curb for sedimentation basin sludge collectors. <u>CR-055</u> : Revise chlorine dioxide injection quill solution tubes from PVC to Hastelloy.	B D D D		\$3,021.00 \$891.00 \$5,117.00 \$2,026.00										
8 (PWPS)	Approved by Board of Directors Approved on September 28, 2015 <u>CR-059</u> : VE option - open trench vs Jack & Bore	A	Not Required	\$ (134,627.00)	\$ (134,627.00)	\$ 138,537.00	\$ 4,210.00	0.01%	\$77,524,823.00	0	0	0	820	4/5/2016
9	Approved by Executive Director of Eng. and WQ Approved on October 13, 2015 <u>CR-064</u> : Remove unknown valve and provide associated pipe modifications on existing 24-inch line to OC-74 <u>CR-065</u> : Delete Dormer and add a roof exhaust hood at the Treatment Building <u>CR-070</u> : Modify slab and install block outs at Forebay Electrical Room <u>CR-074</u> : Modify piping colors <u>CR-075</u> : Provide Colonial Red coating for exterior door canopies to maintain architectural scheme	B D D A D	Not required	\$ 11,687.00 \$ 10,529.00 \$ 4,686.00 \$ - \$ 22,600.00	\$ 49,502.00	\$ 4,210.00	\$ 53,712.00	0.07%	\$77,574,325.00	0	0	0	820	4/5/2016
10	Approved by Executive Director of Eng. and WQ Approved on November 30, 2015 <u>CR-042r</u> : Modifications to the plant fiber optic ring <u>CR-047r1</u> : Additional wiring for moisture detectors at MFWW and Decant Return Pump Stations, addition of a float switch at TCWD PS meter vault, and additional disconnect switch for roll up door motor at Treatment Building <u>CR-060</u> : Modify Control Room lighting fixtures. <u>CR-067</u> : Modify Dewatering lighting fixtures <u>CR-068</u> : Modify Treatment Building Pipe Gallery lighting fixtures. <u>CR-069</u> : Increase size of electrical pull box PB-A. <u>CR-073</u> : Add exit light at the Forebay electrical room. Rain Day Time Extension beyond allowance (3 Days)	A A D D A D D B	Not required	\$26,323.00 \$9,131.00 \$3,815.00 \$9,742.00 \$7,002.00 \$2,508.00 \$2,372.00 \$0.00	\$60,893.00	\$53,712.00	\$114,605.00	0.15%	\$77,635,218.00	3	0	3	823	4/8/2016
11 (PWPS)	Approved by Executive Director of Eng. and WQ Approved on November 30, 2015		Not required		\$11,961.00	\$114,605.00	\$126,566.00	0.16%	\$77,647,179.00	0	3	3	823	4/8/2016

**Baker WTP
PR 11747 (5027)
Construction Change Order Summary**

Date: January 29, 2016
Contractor: PCL Construction
Design Engineer: RBF/Carollo

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$77,520,613.00						Original Days: 820				4/5/2016
Change Order No.	Description	Category	Approved by Baker PC	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 Order Days	Cum. Change Order Days	Revised Total Contract Days	Revised Completion Date
11 (cont)	CR-083: Provide cross-gutter and additional concrete curb at Peachwood Drive at the direction of the City of Lake Forest. CR-084: Modify pre-cast electrical cable trench at PWPS	C D		\$8,563.00 \$3,398.00										
12	Approved by Executive Director of Eng. and WQ Approved on December 22, 2015 CR-046: Add light switches, modify J-boxes and card reader locations. CR-048R1: Add boiler room mini power center and lab appliance circuits. CR-056: Provide additional conduit, floor boxes, and revise conduit configuration for control room telephone and high speed internet services. CR-063: Extend slabs through doorways at all buildings. CR-085: Provide additional pipe supports for 42-inch MFW line in the Pipe Gallery. CR-088: Provide additional pull boxes for site lighting and security. CR-095: Provide modifications to Clearwell chemical vault. CR-096: Provide integral flow meters for PRV 0202 and PRV 0602. CR-097: Griffith standby time.	A D A D D D D D B	Not required	\$3,140.00 \$24,900.00 \$15,665.00 \$0.00 \$8,900.00 \$7,005.00 \$5,713.00 \$5,131.00 \$1,043.00	\$71,497.00	\$126,566.00	\$198,063.00	0.26%	\$77,718,676.00	0	3	3	823	4/8/2016
13	Approved by Executive Director of Eng. and WQ Approved on CR-025r1: Add circuits for water heaters (plumbing and generators). CR-058r1: Add raw water turbidimeter. CR-061: VFD exhaust fan control changes CR-066r1: Add lighting circuit in MFWW Blowdown Room. CR-072: Add Break Glass emergency stops at Chemical Building. CR-078: Replace braided PVC with PE tubing at Clearwell No. 2 chemical vault. Rain Day Time Extension beyond allowance (7 Days) per BKR-498 and BKR-505.	D D A D C D B	Not required	\$4,546.00 \$26,859.00 \$8,683.00 \$4,793.00 \$20,587.00 \$4,532.00 \$0.00	\$70,000.00	\$198,063.00	\$268,063.00	0.35%	\$77,788,676.00	7	3	10	830	4/19/2016
14	Approved by Board of Directors Approved on CR-087.3 Add soffits at eaves at all buildings (excluding Dewatering	A	1/14/2016	\$357,883.00	\$357,883.00	\$268,063.00	\$625,946.00	0.81%	\$78,146,559.00	0	10	10	830	4/19/2016

**Baker WTP
PR 11747 (5027)
Construction Change Order Summary**

Date: January 29, 2016
Contractor: PCL Construction
Design Engineer: RBF/Carollo

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$77,520,613.00						Original Days: 820				4/5/2016
Change Order No.	Description	Category	Approved by Baker PC	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 Order Days	Cum. Change Order Days	Revised Total Contract Days	Revised Completion Date

Category	Total Amount	% of Original Contract
A - Owner Directed Change	\$ 209,184.00	0.27%
B - Differing/Unknown Condition	\$ 85,124.00	0.11%
C - External Agency, Regulatory, and/or Permit Required Change	\$ 57,676.00	0.07%
D - Design Oversight	\$ 273,962.00	0.35%
E - Design Error	\$ -	0.00%
Total Change Order Amount (A + B + C + D + E)	\$ 625,946.00	0.81%

March 14, 2016

Prepared by: Jennifer Davis/Tanja Fournier

Submitted by: Robert Jacobson/Cheryl Clary

Approved by: Paul Cook

CONSENT CALENDAR

JANUARY 2016 TREASURY REPORTS

SUMMARY:

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

- A. The Investment Summary Report for January 2016. This Investment Summary Report is in conformity with the 2016 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A".
- B. The Monthly Interest Rate Swap Summary as of January 31, 2016, as outlined in Exhibit "B".
- C. The Summary of Payroll ACH payments in the total amount of \$1,634,115, as outlined in Exhibit "C".
- D. The January 31, 2016 Disbursement Summary of warrants 364169 through 364864, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$22,607,260 as outlined in Exhibit "D".
- E. The Disclosure Report of Reimbursements to Board Members and Staff for January 2016, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit "E".

FISCAL IMPACTS:

As of January 31, 2016, the book value of the investment portfolio was \$238,445,343, with a 0.63% rate of return and a market value of \$238,371,209. Based on the District's December 31, 2015 quarterly real estate investment rate of return of 12.92%, the weighted average return for the fixed income and real estate investments was 3.44%.

As of January 31, 2016, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in January from all swaps was negative \$560,566.

Payroll ACH payments totaled \$1,634,115, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for January totaled \$22,607,260.

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; however, the investment and interest rate swap reports are submitted to the Finance and Personnel Committee on a monthly basis.

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE MONTHLY INTEREST RATE SWAP SUMMARY FOR JANUARY 2016, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF; APPROVE THE JANUARY 2016 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,634,115 AND APPROVE THE JANUARY 2016 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 364169 THROUGH 364864, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$22,607,260.

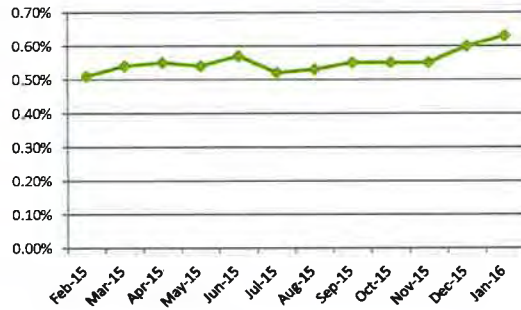
LIST OF EXHIBITS:

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

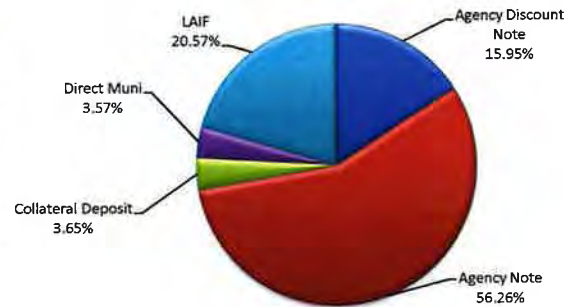
Exhibit "A"

Irvine Ranch Water District Investment Portfolio Summary January 2016

Monthly Fixed Income Yield



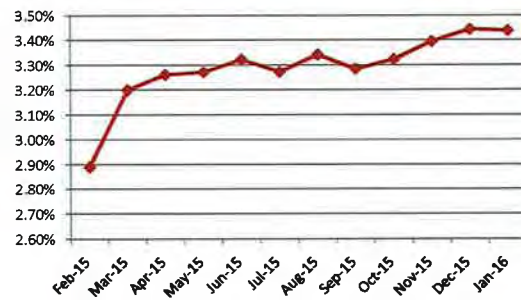
Portfolio Distribution



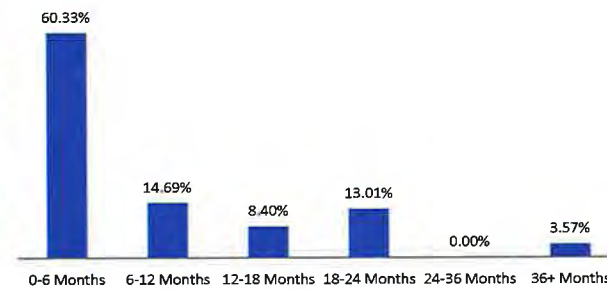
Investment Summary

Type	PAR	Book Value	Market Value
Agency Note	134,000,000	134,250,936	134,218,650
LAIF	49,000,000	49,000,000	48,960,161
Agency Discount Note	38,000,000	37,993,829	37,991,820
Collateral Deposit	8,704,003	8,704,003	8,704,003
Direct Muni	8,496,575	8,496,575	8,496,575
Grand Total	238,200,578	238,445,343	238,371,209

**Weighted Average Return
Including Real Estate Portfolio**



Maturity Distribution



Top Issuers

Issuer	PAR	% Portfolio
Fed Home Loan Bank	71,000,000	29.81%
Fed Home Loan Mortgage Corp	56,000,000	23.51%
State of California Treasury - LAIF	49,000,000	20.57%
Fed Natl Mortgage Assoc	30,000,000	12.59%
Fed Farm Credit Bank	10,000,000	4.20%
ETWD	8,496,575	3.57%
Citi-Group Collateral	5,914,003	2.48%
Fed Ag Mortgage Corp	5,000,000	2.10%
Merrill Lynch Collateral	2,790,000	1.17%

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

01/31/16

SETTLMT *	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	YTFC	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 1/31/2016	UNREALIZED ⁽²⁾ GAIN/(LOSS)
01/25/16			02/01/16		LAIF	State of California Tsy.	\$49,000,000		0.430%		\$49,000,000.00	\$49,000,000.00	48,960,161.19	(39,838.81)
12/01/15	N/A	N/A	02/23/16	NR	FHLB - Discount Note	Fed Home Loan Bank Discount Note	10,000,000	0.265%	0.269%		9,993,816.67	9,998,380.56	9,998,400.00	19.44
07/29/15	N/A	N/A	02/24/16	NR	FHLMC - Discount Note	Fed Home Loan Mortgage Corp -Discount Note	10,000,000	0.175%	0.178%		9,989,791.67	9,998,881.94	9,998,300.00	(581.94)
04/28/15	N/A	N/A	02/26/16	NR	FNMA - Discount Note	Fed Natl Mortgage Discount Note	10,000,000	0.190%	0.193%		9,983,797.22	9,998,522.22	9,998,000.00	(522.22)
11/23/15	N/A	N/A	03/16/16	NR	FHLB - Discount Note	Fed Home Loan Bank Discount Note	8,000,000	0.200%	0.203%		7,994,933.33	7,998,044.44	7,997,120.00	(924.44)
10/16/15	N/A	N/A	04/07/16	NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.220%	0.220%		5,000,000.00	5,000,000.00	4,998,400.00	(1,600.00)
05/20/15	N/A	N/A	05/04/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	3,000,000	0.300%	0.315%		2,999,565.00	2,999,884.41	2,999,070.00	(814.41)
10/14/15	N/A	N/A	05/13/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.500%	0.238%		5,007,600.00	5,003,656.60	5,001,050.00	(2,606.60)
05/20/15	N/A	N/A	05/18/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.250%	0.305%		4,997,285.00	4,999,201.91	4,997,300.00	(1,901.91)
05/20/15	N/A	N/A	05/27/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	2.500%	0.304%		5,111,650.00	5,034,722.25	5,031,550.00	(3,172.25)
06/04/15	N/A	N/A	06/20/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.340%	0.355%		4,999,200.00	4,999,706.81	4,997,800.00	(1,906.81)
07/01/15	N/A	N/A	06/24/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.375%	0.345%		5,001,450.00	5,000,581.62	4,998,400.00	(2,181.62)
11/20/14	N/A	N/A	06/27/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.375%	0.424%		4,996,091.65	4,999,017.90	5,000,900.00	1,882.10
01/11/16	N/A	N/A	06/30/16	NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.500%	0.500%		5,000,000.00	5,000,000.00	5,000,850.00	850.00
05/08/14	N/A	N/A	07/05/16	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.375%	0.484%		4,988,300.00	4,997,701.52	4,997,550.00	(151.52)
06/09/15	N/A	N/A	08/25/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	2.000%	0.467%		10,184,900.00	10,085,980.59	10,079,900.00	(6,080.59)
10/19/15	N/A	N/A	09/28/16	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	1.250%	0.342%		10,085,280.00	10,059,548.97	10,042,400.00	(17,148.97)
06/15/15	N/A	N/A	10/13/16	NR	FAMCA - Note	Fed Ag Mortgage Corp	5,000,000	0.970%	0.578%		5,025,900.00	5,013,589.51	5,024,650.00	11,060.49
11/28/14	Quarterly	05/15/15	11/15/16	Aaa/AA+/NR	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.600%	0.600%	0.600%	5,000,000.00	5,000,000.00	5,000,850.00	850.00
09/21/15	N/A	N/A	12/09/16	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	1.625%	0.532%		5,066,150.00	5,046,379.33	5,041,450.00	(4,929.33)
10/08/15	N/A	N/A	01/30/17	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.250%	0.492%		5,049,445.00	5,037,495.79	5,027,950.00	(9,545.79)
09/21/15	N/A	N/A	02/22/17	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.875%	0.570%		5,021,500.00	5,016,000.96	5,008,000.00	(8,000.96)
06/15/15	N/A	06/13/14	03/30/17	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.625%	0.727%		4,990,950.00	4,994,146.56	5,001,200.00	7,053.44
08/27/15	N/A	N/A	05/30/17	NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.625%	0.642%		4,998,500.00	4,998,869.16	4,992,500.00	(6,369.16)
11/05/15	N/A	N/A	08/28/17	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.750%	0.800%		4,995,500.00	4,996,098.19	4,996,650.00	551.81
09/16/15	Occ Time	03/15/16	09/15/17	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.900%	0.915%	0.960%	4,998,500.00	4,998,783.56	5,003,050.00	4,266.44
09/29/15	Continuous after	03/28/16	09/28/17	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.810%	0.815%		4,999,500.00	4,999,585.62	4,986,550.00	(13,035.62)
07/29/15	Continuous after	01/16/13	10/16/17	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.000%	0.997%		5,000,000.00	5,000,000.00	5,000,050.00	50.00
12/18/15	Continuous after	12/13/13	12/12/17	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.820%	1.132%		4,969,500.00	4,971,393.10	4,987,400.00	16,006.90
12/18/15	Quarterly	03/18/16	12/18/17	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	6,000,000	1.125%	1.138%		5,998,500.00	5,998,591.96	6,003,180.00	4,588.04
05/30/15	N/A	N/A	04/30/36	NR	Direct Muni	ETWD	8,496,575	4.570%	4.570%	4.570%	8,496,574.67	8,496,574.67	8,496,574.67	
SUB-TOTAL							<u>\$229,496,575</u>				<u>\$229,944,180.21</u>	<u>\$229,741,340.15</u>	<u>\$229,667,205.86</u>	<u>(\$74,134.29)</u>
RESTRICTED CASH (Swap Collateral Deposits) ⁽⁵⁾														
12/01/15					Collateral Deposit	Citi-Group	\$5,914,003		0.290%		\$5,914,003.15	\$5,914,003.15	5,914,003.15	
12/07/15					Collateral Deposit	Merrill Lynch	\$2,790,000		0.290%		\$2,790,000.00	\$2,790,000.00	2,790,000.00	
SUB-TOTAL							<u>\$8,704,003</u>				<u>\$8,704,003.15</u>	<u>\$8,704,003.15</u>	<u>\$8,704,003.15</u>	
TOTAL INVESTMENTS							<u>\$238,200,578</u>				<u>\$238,648,183.36</u>	<u>\$238,445,343.30</u>	<u>\$238,371,209.01</u>	
					Petty Cash						3,400.00			
			December		Ck Balance	Bank of America					442,475.70			
											<u>\$239,094,059.06</u>			

⁽¹⁾ 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.

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

⁽³⁾ Real estate rate of return is based on most recent quarter end return

⁽⁴⁾ Calculation excludes Direct Muni - ETWD

⁽⁵⁾ Swap Collateral Deposits assumes 6 month maturity, dependent on interest rate changes

This Investment Summary Report is in conformity with the 2016 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.
*S - Step up

Outstanding Variable Rate Debt	\$317,700,000
Net Outstanding Variable Rate Debt (Less \$130 million fixed-payer swaps)	\$187,700,000
Investment Balance:	\$239,094,059
Investment to Variable Rate Debt Ratio:	127%
Portfolio - Average Number of Days To Maturity ⁽⁴⁾	158

	Investment Portfolio	Real Estate ⁽³⁾ Portfolio	Weighted Avg. Return
January	0.63%	12.92%	3.44%
December	0.60%	12.92%	3.44%
Change	0.03%		

IRVINE RANCH WATER DISTRICT
SUMMARY OF MATURITIES

01/31/16

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Collateral Deposit	Direct Muni
01/16	\$49,000,000	20.57%	\$49,000,000				
02/16	30,000,000	12.59%			30,000,000		
03/16	16,704,003	7.01%			8,000,000	\$8,704,003	
04/16	5,000,000	2.10%		5,000,000			
05/16	18,000,000	7.56%		18,000,000			
06/16	20,000,000	8.40%		20,000,000			
07/16	5,000,000	2.10%		5,000,000			
08/16	10,000,000	4.20%		10,000,000			
09/16	10,000,000	4.20%		10,000,000			
10/16	5,000,000	2.10%		5,000,000			
11/16	5,000,000	2.10%		5,000,000			
12/16	5,000,000	2.10%		5,000,000			
SUB-TOTAL	\$178,704,003	75.02%	\$49,000,000	\$83,000,000	\$38,000,000	\$8,704,003	
13 Months - 3 YEARS							
1/1/2017 - 3/31/2017	15,000,000	6.30%		15,000,000			
04/01/17-06/30/17	5,000,000	2.10%		5,000,000			
07/01/17 - 9/30/2017	15,000,000	6.30%		15,000,000			
10/30/17 - 12/31/2017	16,000,000	6.72%		16,000,000			
	-						
	-						
04/30/2036	8,496,575	3.57%					8,496,575
TOTALS	\$238,200,578	100.00%	\$49,000,000	\$134,000,000	\$38,000,000	\$8,704,003	\$8,496,575

% OF PORTFOLIO

20.57%

56.26%

15.95%

3.65%

3.57%

Irvine Ranch Water District
 Summary of Real Estate
 12/31/2015

	<u>ACQUISITION DATE</u>	<u>PROPERTY TYPE</u>	<u>OWNERSHIP INTEREST</u>	<u>ORIGINAL COST</u>	<u>RATE OF RETURN QUARTER ENDED Dec-15</u>
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	16.64%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	8.54%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	7.47%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	5.25%
Sand Canyon Professional Center	Jul-12	Medical Office	Fee Simple	\$ 8,648,594	8.49%
				<u>\$ 72,569,826</u>	<u>12.92%</u>

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT
INVESTMENT ACTIVITY
 January 2016

MATURITIES/SALES/CALLS

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
1/15/2016	FHLB - Note	\$5,000,000	0.39%	1/11/2016	6/30/2016	FHLB - Note	\$5,000,000	0.50%
1/25/2016	FHLB - Discount Note	\$5,000,000	0.15%					

**IRVINE RANCH WATER DISTRICT
INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL
January 31, 2016**

LIBOR Avg %	Prior Mo.	Current Mo.	12-Mo Avg
	0.35%	0.43%	0.22%

Current Fiscal Year Active Swaps								Cash Flow				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 Cash Flow	Current Mark to Market	Notional Difference
Fixed Payer Swaps - By Effective Date													
6/4/2006	6/4/2019	3.3	ML	\$ 20,000,000	FXP	LIBOR	6.200%	(102,557)	(89,851)	\$ (692,652)	\$ (9,347,619)	\$ 16,511,090	\$ (3,488,910)
6/4/2006	6/4/2019	3.3	CG	20,000,000	FXP	LIBOR	6.200%	(102,557)	(89,851)	(692,652)	(9,347,619)	16,508,732	(3,491,268)
6/17/2006	6/17/2019	3.4	CG	30,000,000	FXP	LIBOR	6.140%	(151,629)	(133,984)	(1,028,158)	(13,866,061)	24,772,716	(5,227,284)
3/10/2007	3/10/2029	13.1	ML	30,000,000	FXP	LIBOR	5.687%	(140,082)	(123,440)	(949,663)	(12,459,471)	16,436,153	(13,563,847)
3/10/2007	3/10/2029	13.1	CG	30,000,000	FXP	LIBOR	5.687%	(140,082)	(123,440)	(949,663)	(12,459,471)	16,376,714	(13,623,286)
Totals/Weighted Avgs				7.9	\$ 130,000,000	5.949%	\$ (636,907)	\$ (560,566)	\$ (4,312,788)	\$ (57,480,242)	\$ 90,605,405	\$ (39,394,595)	
Total Current Year Active Swaps				\$ 130,000,000	\$ (636,907)	\$ (560,566)	\$ (4,312,788)	\$ (57,480,242)	\$ 90,605,405	\$ (39,394,595)			

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 Cash Flow	Current Mark to Market	Notional Difference	
Total Current Year Terminated Swaps								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Current Fiscal Year - Total Swaps								Cash Flow				Mark to Market	
Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference								
Total Current Year Active & Terminated Swaps	\$ 130,000,000	\$ (636,907)	\$ (560,566)	\$ (4,312,788)	\$ (57,480,242)	\$ 90,605,405	\$ (39,394,595)						

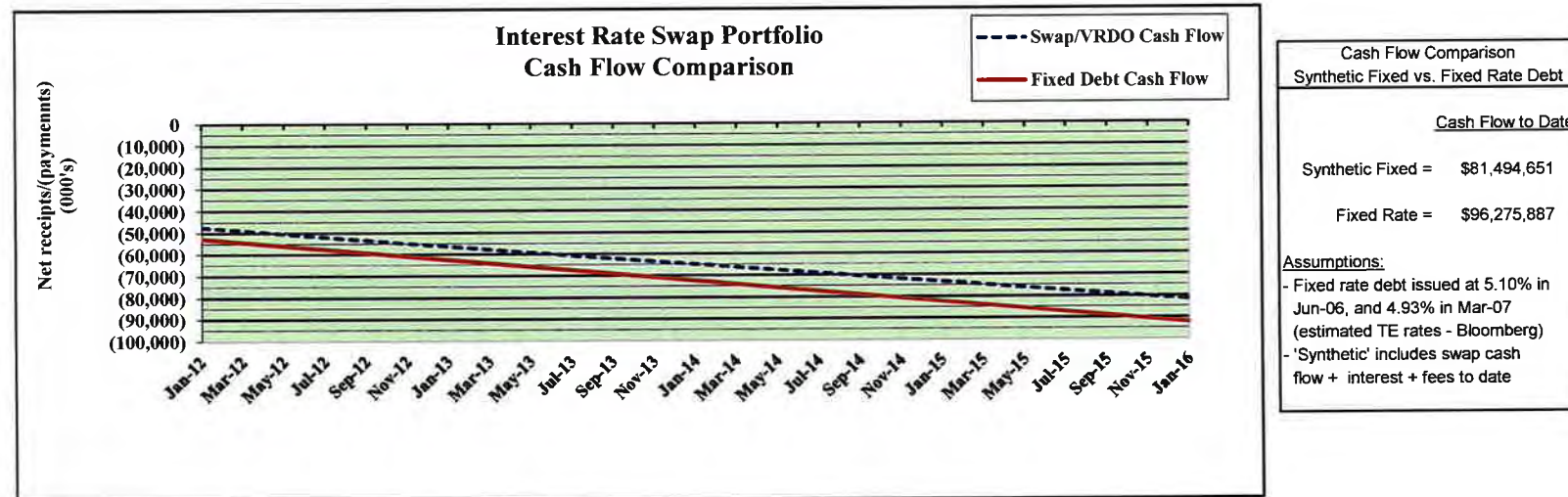


Exhibit "C"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

**January
2016**

	AMOUNT	VENDOR	PURPOSE
1/8/2016	753,751.51	BANK OF AMERICA	ACH Payments for Payroll
1/22/2016	880,363.10	BANK OF AMERICA	ACH Payments for Payroll
	<u>\$1,634,114.61</u>		

Exhibit "D"

>

IRWD Ledger
 Include Zero Amount Payments: Yes
 Display Payee Address: No

Void Payment Register
 Period From: 01-JAN-16

Report Date: 19-FEB-2016 08:33
 Page: 1
 To: 31-JAN-16
 Date: Void Date

Bank: Bank of America N.A. Branch: Los Angeles Account: Checking AP and PR
 Bank Account Currency: USD Payment Currency: USD (US Dollar)

Payment Number	Date	Payee Name	Site	Address	Payment Amount	Void Date
Payment Document: IRWD CHECK						
362017	08-OCT-15	BRYANT, KATIE	PAY		317.31	05-JAN-16
362081	08-OCT-15	KIM, TAE YOUNG	PAY		177.23	28-JAN-16
362200	15-OCT-15	ATHANAS, JAMES	PAY		8.36	27-JAN-16
362202	15-OCT-15	BICKER, THOMAS	PAY		17.30	27-JAN-16
362277	15-OCT-15	LIU, ZHENGNING	PAY		93.67	27-JAN-16
362284	15-OCT-15	MONTILLA COMMUNITY ASSN	PAY		4,501.95	28-JAN-16
362368	15-OCT-15	YANG, LI	PAY		19.16	05-JAN-16
362456	22-OCT-15	KIM, JENNY	TUSTIN		11.47	27-JAN-16
362466	22-OCT-15	MAEDA, MIE	PAY		447.22	28-JAN-16
363561	03-DEC-15	Velazquez, Moises	HOME		145.00	05-JAN-16
363666	10-DEC-15	MUNICIPAL WATER DISTRICT OF	FOUNTAIN VALLEY		130,652.26	12-JAN-16
363960	23-DEC-15	ORANGE COUNTY SANITATION DI	FOUNTAIN VALLEY		2,018,483.25	18-JAN-16
363976	23-DEC-15	ARCADIS U.S., INC.	CHICAGO 1		87,539.45	18-JAN-16
363988	23-DEC-15	C WELLS PIPELINE MATERIALS	CORONA		22,571.84	18-JAN-16
363993	23-DEC-15	CIVILSOURCE, INC.	IRVINE 1		13,818.00	18-JAN-16
363997	23-DEC-15	DATASITE INC	PAY		13,272.00	18-JAN-16
364011	23-DEC-15	GE GRID SOLUTIONS, LLC	ATLANTA		18,657.39	12-JAN-16
364012	23-DEC-15	GHD INC.	PASADENA		34,565.00	18-JAN-16
364015	23-DEC-15	HDR ENGINEERING INC	OMAHA		15,578.29	18-JAN-16
364016	23-DEC-15	HELPMATES STAFFING SERVICES	IRVINE		15,103.83	18-JAN-16
364025	23-DEC-15	L. G. SUPPLY COMPANY	PURCHASE		16,535.88	18-JAN-16
364031	23-DEC-15	MARINA LANDSCAPE MAINTENANC	PURCHASE_PAY		12,246.14	18-JAN-16
364034	23-DEC-15	MICHAEL BAKER INTERNATIONAL	PURCHASE		14,669.55	18-JAN-16
364036	23-DEC-15	MUNICIPAL WATER DISTRICT OF	FOUNTAIN VALLEY		164,499.90	12-JAN-16
364038	23-DEC-15	OLIN CORPORATION	ATLANTA		11,241.35	18-JAN-16
364041	23-DEC-15	OUTFRONT MEDIA LLC	PURCHASE		19,148.50	18-JAN-16
364045	23-DEC-15	POLLARDWATER.COM	BOSTON		11,466.25	18-JAN-16
364052	23-DEC-15	SECURTEC DISTRICT PATROL, I	PAY		11,467.00	18-JAN-16
364062	23-DEC-15	THE IRVINE COMPANY LLC	PO BOX 844611		15,000.00	18-JAN-16
364074	23-DEC-15	WATERSMART SOFTWARE, INC	SAN FRANCISCO		17,974.42	18-JAN-16
364078	23-DEC-15	US BANK NAT'L ASSOCIATION N	PO BOX 790428		123,355.60	18-JAN-16
364101	30-DEC-15	CAVALIER, ROBERT	PAY		976.25	19-JAN-16
364313	07-JAN-16	VRIDE INC	CHICAGO 1		23,515.00	08-JAN-16
364332	14-JAN-16	A.J. KLEIN, INC. T. DENATAL	PO BOX 11172		4,655.00	25-JAN-16
364366	14-JAN-16	CASTILLO, AARON	PAY		14.61	18-JAN-16
364368	14-JAN-16	CHYANG, YUN	PAY		12.42	18-JAN-16
364528	20-JAN-16	AMBER PROPERTY MANAGEMENT	PAY		856.14	21-JAN-16

IRWD Ledger
 Include Zero Amount Payments: Yes
 Display Payee Address: No

Void Payment Register
 Period From: 01-JAN-16

Report Date: 19-FEB-2016 08:33
 Page: 2
 To: 31-JAN-16
 Date: Void Date

Bank: Bank of America N.A. Branch: Los Angeles Account: Checking AP and PR
 Bank Account Currency: USD Payment Currency: USD (US Dollar)

Payment Number	Date	Payee Name	Site	Address	Payment Amount	Void Date
Payment Document: IRWD CHECK						
					Payment Document Subtotal	2,823,613.99
					Bank Account Subtotal	2,823,613.99
Report Count: 37					Report Total	2,823,613.99
						Voids

*** End of Report ***

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IRWD Ledger Payment Register For 01-JAN-16 To 31-JAN-16 Report Date: 19-FEB-2016 08:31
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 1
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364169		07-JAN-16	HELPMATES STAFFING	IRVINE	21,580.64	13-JAN-16	21,580.64	Reconciled
364170		07-JAN-16	Arant, Anita E (Anita)		10.92			Negotiable
364171		07-JAN-16	Kalinsky, Arseny (Arseny)		360.00	13-JAN-16	360.00	Reconciled
364172		07-JAN-16	Chaney, David (Dave)		300.00	11-JAN-16	300.00	Reconciled
364173		07-JAN-16	Sanchez, Fiona M (Fiona)		47.50	11-JAN-16	47.50	Reconciled
364174		07-JAN-16	Jackson, Gina C (Gina)		101.35	11-JAN-16	101.35	Reconciled
364175		07-JAN-16	Nash, Joel		41.40	11-JAN-16	41.40	Reconciled
364176		07-JAN-16	Velazquez, Moises		145.00	11-JAN-16	145.00	Reconciled
364177		07-JAN-16	Torres, Richard P (Richard)		200.00	11-JAN-16	200.00	Reconciled
364178		07-JAN-16	Nomura, Scott C (Scott)		113.38	13-JAN-16	113.38	Reconciled
364179		07-JAN-16	Malloy, Steven L (Steven)		552.00	21-JAN-16	552.00	Reconciled
364180		07-JAN-16	3M COMPANY		423.20	11-JAN-16	423.20	Reconciled
364181		07-JAN-16	A.J. KLEIN, INC. T. DENATALE, B. GOLDNER		4,165.00	11-JAN-16	4,165.00	Reconciled
364182		07-JAN-16	AHN, ESTHER		15.95	28-JAN-16	15.95	Reconciled
364183		07-JAN-16	AIRGAS, INC.		699.84	11-JAN-16	699.84	Reconciled
364184		07-JAN-16	ALEXANDER'S CONTRACT SERVICES, INC.		109,950.65	13-JAN-16	109,950.65	Reconciled
364185		07-JAN-16	ALPHA TRAFFIC SERVICES, INC.		570.00	19-JAN-16	570.00	Reconciled
364186		07-JAN-16	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		31,804.62	15-JAN-16	31,804.62	Reconciled
364187		07-JAN-16	AT&T		50.95	13-JAN-16	50.95	Reconciled
364188		07-JAN-16	AT&T		6,034.11	12-JAN-16	6,034.11	Reconciled
364189		07-JAN-16	BARCO PRODUCTS COMPANY		4,348.23	11-JAN-16	4,348.23	Reconciled
364190		07-JAN-16	BERRIMAN, LESTER P		488.95	12-JAN-16	488.95	Reconciled
364191		07-JAN-16	BILL'S SWEEPING SERVICE INC		1,035.00	11-JAN-16	1,035.00	Reconciled
364192		07-JAN-16	BIOMAGIC INC		3,259.01	12-JAN-16	3,259.01	Reconciled
364193		07-JAN-16	BOYD & ASSOCIATES		300.00	12-JAN-16	300.00	Reconciled
364194		07-JAN-16	BRISTOL STREET PARTNERS LLC		846.34	11-JAN-16	846.34	Reconciled
364195		07-JAN-16	BRITHINEE ELECTRIC		4,788.79	11-JAN-16	4,788.79	Reconciled

IRWD Ledger Payment Register For 01-JAN-16 To 31-JAN-16 Report Date: 19-FEB-2016 08:31
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 2
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364196		07-JAN-16	BURLINGTON SAFETY LABORATORY OF CALIFORNIA INC		1,176.89	13-JAN-16	1,176.89	Reconciled
364197		07-JAN-16	CALIFORNIA BARRICADE INC		6,342.50	12-JAN-16	6,342.50	Reconciled
364198		07-JAN-16	CALIFORNIA MUNICIPAL UTILITIES		130.00	19-JAN-16	130.00	Reconciled
364199		07-JAN-16	ASSOCIATION CANON SOLUTIONS AMERICA, INC.		407.01	11-JAN-16	407.01	Reconciled
364200		07-JAN-16	CAPTIVE AUDIENCE MARKETING INC.		85.32	12-JAN-16	85.32	Reconciled
364201		07-JAN-16	CAROLLO ENGINEERS, INC		36,482.05	14-JAN-16	36,482.05	Reconciled
364202		07-JAN-16	CHEM TECH INTERNATIONAL INC		5,068.80	21-JAN-16	5,068.80	Reconciled
364203		07-JAN-16	CITY OF IRVINE		550.29	11-JAN-16	550.29	Reconciled
364204		07-JAN-16	CITY OF ORANGE		124.64	12-JAN-16	124.64	Reconciled
364205		07-JAN-16	CITY OF SANTA ANA		18,980.06	02-FEB-16	18,980.06	Reconciled
364206		07-JAN-16	CITY OF TUSTIN		55,508.44	13-JAN-16	55,508.44	Reconciled
364207		07-JAN-16	CLEARINGHOUSE		477.67	11-JAN-16	477.67	Reconciled
364208		07-JAN-16	COASTAL IGNITION & CONTROLS, INC		6,809.09	12-JAN-16	6,809.09	Reconciled
364209		07-JAN-16	COX		3,195.92	12-JAN-16	3,195.92	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
364210	07-JAN-16	COMMUNICATIONS, INC.			88.70	11-JAN-16	88.70	Reconciled
364211	07-JAN-16	CREDENTIAL CHECK CORPORATION			10,000.00	15-JAN-16	10,000.00	Reconciled
364212	07-JAN-16	CURT PRINGLE AND ASSOCIATES			2,505.78	19-JAN-16	2,505.78	Reconciled
364213	07-JAN-16	DARTMOUTH COURT APTS			1,866.52	14-JAN-16	1,866.52	Reconciled
364214	07-JAN-16	DATAZEO, INC.			125.00	11-JAN-16	125.00	Reconciled
364215	07-JAN-16	DMS FACILITY SERVICES, INC.			2,150.00	11-JAN-16	2,150.00	Reconciled
364216	07-JAN-16	DOUGLAS ENVIRONMENTAL GROUP INC			2,958.40	13-JAN-16	2,958.40	Reconciled
364217	07-JAN-16	DUDEK			5,373.00	15-JAN-16	5,373.00	Reconciled
364218	07-JAN-16	EISEL ENTERPRISES INC			1,045.00	12-JAN-16	1,045.00	Reconciled

IRWD Ledger Payment Register For 01-JAN-16 To 31-JAN-16 Report Date: 19-FEB-2016 08:31
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 3
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364219	07-JAN-16	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.			14,180.00	13-JAN-16	14,180.00	Reconciled
364220	07-JAN-16	ENVIRONMENTAL EXPRESS INC			2,624.18	11-JAN-16	2,624.18	Reconciled
364221	07-JAN-16	ENVIRONMENTAL SCIENCE ASSOCIATES			5,528.33	13-JAN-16	5,528.33	Reconciled
364222	07-JAN-16	EXECUTIVE LIGHTING & ELECTRIC			215.20	12-JAN-16	215.20	Reconciled
364223	07-JAN-16	FEDEX			378.63	12-JAN-16	378.63	Reconciled
364224	07-JAN-16	FIDELITY SECURITY LIFE INSURANCE COMPANY			6,201.97	12-JAN-16	6,201.97	Reconciled
364225	07-JAN-16	FIRST CHOICE SERVICES			508.32	13-JAN-16	508.32	Reconciled
364226	07-JAN-16	FISHER SCIENTIFIC COMPANY LLC			23,949.63	12-JAN-16	23,949.63	Reconciled
364227	07-JAN-16	FRANCHISE TAX BOARD			612.54	25-JAN-16	612.54	Reconciled
364228	07-JAN-16	FRANK LA PLACA EXTERMINATING, INC.			175.00	15-JAN-16	175.00	Reconciled
364229	07-JAN-16	GALLADE CHEMICAL INC			626.40	11-JAN-16	626.40	Reconciled
364230	07-JAN-16	GRAINGER			865.42	11-JAN-16	865.42	Reconciled
364231	07-JAN-16	GRAYBAR ELECTRIC COMPANY			10,328.53	12-JAN-16	10,328.53	Reconciled
364232	07-JAN-16	HACH COMPANY			311.23	11-JAN-16	311.23	Reconciled
364233	07-JAN-16	HDR ENGINEERING INC			81,250.41	14-JAN-16	81,250.41	Reconciled
364234	07-JAN-16	HELPMATES STAFFING SERVICES			16,507.50	13-JAN-16	16,507.50	Reconciled
364235	07-JAN-16	HILL BROTHERS CHEMICAL COMPANY			22,207.20	13-JAN-16	22,207.20	Reconciled
364236	07-JAN-16	HOME DEPOT USA INC			1,076.74	12-JAN-16	1,076.74	Reconciled
364237	07-JAN-16	HORIZON TECHNOLOGY INC			650.43	11-JAN-16	650.43	Reconciled
364238	07-JAN-16	HOU, HAOWEI			77.69			Negotiable
364239	07-JAN-16	IBM CORPORATION			3,821.00	13-JAN-16	3,821.00	Reconciled
364240	07-JAN-16	INDUSTRIAL METAL SUPPLY CO			179.61	11-JAN-16	179.61	Reconciled
364241	07-JAN-16	IRVINE PIPE & SUPPLY INC			2,575.11	11-JAN-16	2,575.11	Reconciled
364242	07-JAN-16	IRWD EMPLOYEE ASSOCIATION			810.00	08-JAN-16	810.00	Reconciled

IRWD Ledger Payment Register For 01-JAN-16 To 31-JAN-16 Report Date: 19-FEB-2016 08:31
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 4
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364243	07-JAN-16	IRWD-PETTY CASH CUSTODIAN			1,261.01	08-JAN-16	1,261.01	Reconciled
364244	07-JAN-16	KAYUGA SOLUTION INC			13,530.00	14-JAN-16	13,530.00	Reconciled
364245	07-JAN-16	KENNY THE PRINTER			198.24	11-JAN-16	198.24	Reconciled
364246	07-JAN-16	LANDCARE HOLDINGS, INC.			8,121.87	11-JAN-16	8,121.87	Reconciled
364247	07-JAN-16	LEE & RO, INC.			6,419.86	12-JAN-16	6,419.86	Reconciled
364248	07-JAN-16	LI, DAIJIN			18.68			Negotiable

364249	07-JAN-16	MBF CONSULTING, INC.	15,156.00	14-JAN-16	15,156.00	Reconciled
364250	07-JAN-16	MC FADDEN-DALE INDUSTRIAL	8.04	11-JAN-16	8.04	Reconciled
364251	07-JAN-16	MC MASTER CARR SUPPLY CO	246.76	11-JAN-16	246.76	Reconciled
364252	07-JAN-16	MSC INDUSTRIAL SUPPLY CO	326.44	12-JAN-16	326.44	Reconciled
364253	07-JAN-16	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	54,500.00	13-JAN-16	54,500.00	Reconciled
364254	07-JAN-16	NATIONAL READY MIXED CONCRETE CO.	6,802.28	11-JAN-16	6,802.28	Reconciled
364255	07-JAN-16	NATURES IMAGE INC	515.25	11-JAN-16	515.25	Reconciled
364256	07-JAN-16	NINYO & MOORE	1,021.75	11-JAN-16	1,021.75	Reconciled
364257	07-JAN-16	NOVACOAST INC	7,672.50	11-JAN-16	7,672.50	Reconciled
364258	07-JAN-16	O'HAREN GOVERNMENT RELATIONS	6,500.00	13-JAN-16	6,500.00	Reconciled
364259	07-JAN-16	OFFICE DEPOT INC	647.81	11-JAN-16	647.81	Reconciled
364260	07-JAN-16	OKAHARA, HIROFUMI	144.64			Negotiable
364261	07-JAN-16	OLIN CORPORATION	14,085.89	15-JAN-16	14,085.89	Reconciled
364262	07-JAN-16	ONESOURCE DISTRIBUTORS LLC	1,504.60	11-JAN-16	1,504.60	Reconciled
364263	07-JAN-16	OUTFRONT MEDIA LLC	15,756.00	14-JAN-16	15,756.00	Reconciled
364264	07-JAN-16	OUTSOURCE TECHNICAL LLC	58,962.00	13-JAN-16	58,962.00	Reconciled
364265	07-JAN-16	OZONIA NORTH AMERICA, LLC	4,530.36	13-JAN-16	4,530.36	Reconciled
364266	07-JAN-16	PACIFIC PARTY RENTAL	512.20	12-JAN-16	512.20	Reconciled
364267	07-JAN-16	PARK, JUNG BOK	436.06	11-JAN-16	436.06	Reconciled
364268	07-JAN-16	PAYNE & FEARS LLP	1,284.00	11-JAN-16	1,284.00	Reconciled
364269	07-JAN-16	PERS LONG TERM CARE	771.11	11-JAN-16	771.11	Reconciled
364270	07-JAN-16	PIVOT INTERIORS INC	594.00	11-JAN-16	594.00	Reconciled
364271	07-JAN-16	POLLARDWATER.COM	116.29	11-JAN-16	116.29	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 5
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364272		07-JAN-16	PRAXAIR DISTRIBUTION INC		2,710.71	12-JAN-16	2,710.71	Reconciled
364273		07-JAN-16	PROBOLSKY RESEARCH LLC		18,000.00	13-JAN-16	18,000.00	Reconciled
364274		07-JAN-16	PRUDENTIAL OVERALL SUPPLY		6,416.39	11-JAN-16	6,416.39	Reconciled
364275		07-JAN-16	QING YUAN BAI		20,287.83	28-JAN-16	20,287.83	Reconciled
364276		07-JAN-16	RAM AIR ENGINEERING INC		5,217.11	12-JAN-16	5,217.11	Reconciled
364277		07-JAN-16	RINGCLEAR LLC		128.76	11-JAN-16	128.76	Reconciled
364278		07-JAN-16	ROBERT HALF INTERNATIONAL, INC.		3,375.00	11-JAN-16	3,375.00	Reconciled
364279		07-JAN-16	ROCHESTER MIDLAND CORPORATION		1,503.30	12-JAN-16	1,503.30	Reconciled
364280		07-JAN-16	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT		1,659.88	20-JAN-16	1,659.88	Reconciled
364281		07-JAN-16	SAN LEON APTS		73.46	14-JAN-16	73.46	Reconciled
364282		07-JAN-16	SANTA ANA BLUE PRINT		2,200.47	13-JAN-16	2,200.47	Reconciled
364283		07-JAN-16	SANTIAGO AQUEDUCT COMMISSION		101,950.52	08-JAN-16	101,950.52	Reconciled
364284		07-JAN-16	SCHINDLER ELEVATOR CORPORATION		180.14	12-JAN-16	180.14	Reconciled
364285		07-JAN-16	SHAMROCK SUPPLY CO INC		50.55	11-JAN-16	50.55	Reconciled
364286		07-JAN-16	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		935.96	15-JAN-16	935.96	Reconciled
364287		07-JAN-16	SOUTH COAST ANSWERING SERVICE		573.81	11-JAN-16	573.81	Reconciled
364288		07-JAN-16	SOUTHERN CALIFORNIA EDISON COMPANY		522,908.72	11-JAN-16	522,908.72	Reconciled
364289		07-JAN-16	SOUTHLAND WATER TECHNOLOGIES LLC		2,109.20	12-JAN-16	2,109.20	Reconciled
364290		07-JAN-16	STANDARD AUTOMATION AND CONTROL LP		66,777.60	14-JAN-16	66,777.60	Reconciled
364291		07-JAN-16	STANTEC CONSULTING SERVICES INC.		3,835.00	12-JAN-16	3,835.00	Reconciled
364292		07-JAN-16	STICE COMPANY INC.		1,500.00			Negotiable
364293		07-JAN-16	TEKDRAULICS		40,246.59	13-JAN-16	40,246.59	Reconciled
364294		07-JAN-16	TESTAMERICA LABORATORIES, INC		192.15	12-JAN-16	192.15	Reconciled

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 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364295		07-JAN-16	THE FURMAN GROUP, INC.		12,555.00	15-JAN-16	12,555.00	Reconciled
364296		07-JAN-16	THYSSENKRUPP ELEVATOR CORPORATION		179.64	11-JAN-16	179.64	Reconciled
364297		07-JAN-16	TIC-IPG-COMMON		2,004.51	13-JAN-16	2,004.51	Reconciled
364298		07-JAN-16	TIC-OFFICE PROPERTIES		341.59	13-JAN-16	341.59	Reconciled
364299		07-JAN-16	TIGHT QUARTERS INC.		5,800.00	15-JAN-16	5,800.00	Reconciled
364300		07-JAN-16	TROPICAL PLAZA NURSERY INC		17,384.12	14-JAN-16	17,384.12	Reconciled
364301		07-JAN-16	TROPICAL PLAZA NURSERY INC		4,270.38	11-JAN-16	4,270.38	Reconciled
364302		07-JAN-16	TUTTLE-CLICK FORD LINCOLN		28,391.15	13-JAN-16	28,391.15	Reconciled
364303		07-JAN-16	U.S. HEALTHWORKS MEDICAL GROUP, P.C.		235.09	11-JAN-16	235.09	Reconciled
364304		07-JAN-16	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA		792.00	12-JAN-16	792.00	Reconciled
364305		07-JAN-16	UNITED PARCEL SERVICE INC		57.40	11-JAN-16	57.40	Reconciled
364306		07-JAN-16	UNITED SITE SERVICES OF CALIFORNIA INC		152.31	13-JAN-16	152.31	Reconciled
364307		07-JAN-16	UNITED STATES POST OFFICE		27,083.33	20-JAN-16	27,083.33	Reconciled
364308		07-JAN-16	URS CORPORATION		2,735.41	11-JAN-16	2,735.41	Reconciled
364309		07-JAN-16	VCI CONSTRUCTION INC		1,975.00	11-JAN-16	1,975.00	Reconciled
364310		07-JAN-16	VERIZON CALIFORNIA INC		374.18	14-JAN-16	374.18	Reconciled
364311		07-JAN-16	VERIZON CALIFORNIA INC		38.01	13-JAN-16	38.01	Reconciled
364312		07-JAN-16	VERIZON WIRELESS SERVICES LLC		3,293.88	13-JAN-16	3,293.88	Reconciled
364313		07-JAN-16	VRIDE INC		23,515.00			Voided
364314		07-JAN-16	VWR INTERNATIONAL, LLC		121.12	11-JAN-16	121.12	Reconciled
364315		07-JAN-16	WALTERS WHOLESALE ELECTRIC		1,351.23	12-JAN-16	1,351.23	Reconciled
364316		07-JAN-16	WASTE MANAGEMENT OF ORANGE COUNTY		1,834.82	11-JAN-16	1,834.82	Reconciled

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364317		07-JAN-16	WECK LABORATORIES INC		455.00	14-JAN-16	455.00	Reconciled
364318		07-JAN-16	WENNING, ABEL		94.65	19-JAN-16	94.65	Reconciled
364319		07-JAN-16	WESTERN AV		5,903.04	11-JAN-16	5,903.04	Reconciled
364320		07-JAN-16	WIRELESS WATCHDOGS, LLC		444.00	14-JAN-16	444.00	Reconciled
364321		08-JAN-16	ATHENS SERVICES	PAY	2,144.50	11-JAN-16	2,144.50	Reconciled
364322		08-JAN-16	ORANGE COUNTY SANITATION DISTRICT	FOUNTAIN VALLEY	412,500.00	13-JAN-16	412,500.00	Reconciled
364323		08-JAN-16	VRIDE INC	CHICAGO 1	27,175.33	15-JAN-16	27,175.33	Reconciled
364324		14-JAN-16	Yue, Andrew R (Andrew)		119.17			Negotiable
364325		14-JAN-16	Mossbarger, Anthony J (Tony)		17.88	19-JAN-16	17.88	Reconciled
364326		14-JAN-16	Hjorth, Charles O (Charles)		150.66	01-FEB-16	150.66	Reconciled
364327		14-JAN-16	Alberts, Dale L (Dale)		130.00	19-JAN-16	130.00	Reconciled
364328		14-JAN-16	Flotho, Eric (Eric)		631.79	19-JAN-16	631.79	Reconciled
364329		14-JAN-16	Van Deusen, Scott A (Scott)		164.00	19-JAN-16	164.00	Reconciled
364330		14-JAN-16	CANON SOLUTIONS AMERICA, INC.	LOS ANGELES	4,417.29	19-JAN-16	4,417.29	Reconciled
364331		14-JAN-16	4IMPRINT, INC.		6,643.21	19-JAN-16	6,643.21	Reconciled
364332		14-JAN-16	A.J. KLEIN, INC. T. DENATALE, B.		4,655.00			Voided

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
364333	14-JAN-16	14-JAN-16	GOLDNER AAF INTERNATIONAL		980.58	19-JAN-16	980.58	Reconciled
364334	14-JAN-16	14-JAN-16	ACCURATE AIR ENGINEERING INC		4,621.32	19-JAN-16	4,621.32	Reconciled
364335	14-JAN-16	14-JAN-16	ADS LLC		35,559.50	21-JAN-16	35,559.50	Reconciled
364336	14-JAN-16	14-JAN-16	AHWAZI, HAMID		23.42	05-FEB-16	23.42	Reconciled
364337	14-JAN-16	14-JAN-16	ALL AMERICAN SEWER TOOLS		1,724.47	19-JAN-16	1,724.47	Reconciled
364338	14-JAN-16	14-JAN-16	ALLIED ELECTRONICS INC		355.03	20-JAN-16	355.03	Reconciled
364339	14-JAN-16	14-JAN-16	ALMQUIST, STEVE		208.94	29-JAN-16	208.94	Reconciled
364340	14-JAN-16	14-JAN-16	AMERICAN GEOTECHNICAL, INC.		4,645.00	19-JAN-16	4,645.00	Reconciled
364341	14-JAN-16	14-JAN-16	ANTHEM BLUE CROSS		562.26	19-JAN-16	562.26	Reconciled
364342	14-JAN-16	14-JAN-16	APD CONSULTANTS INC		12,340.00	25-JAN-16	12,340.00	Reconciled
364343	14-JAN-16	14-JAN-16	AQUA-METRIC SALES COMPANY		8,593.40	20-JAN-16	8,593.40	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 8
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364344	14-JAN-16	14-JAN-16	ARCADIS U.S., INC.		38,583.37	25-JAN-16	38,583.37	Reconciled
364345	14-JAN-16	14-JAN-16	ARCHROCK SERVICES, L.P.		5,889.52	19-JAN-16	5,889.52	Reconciled
364346	14-JAN-16	14-JAN-16	ASHFORD, WALT		297.07	20-JAN-16	297.07	Reconciled
364347	14-JAN-16	14-JAN-16	AT&T		48.57	19-JAN-16	48.57	Reconciled
364348	14-JAN-16	14-JAN-16	AT&T		3,413.56	19-JAN-16	3,413.56	Reconciled
364349	14-JAN-16	14-JAN-16	AT&T		1,679.12	19-JAN-16	1,679.12	Reconciled
364350	14-JAN-16	14-JAN-16	AUTOZONE PARTS, INC.		612.40	19-JAN-16	612.40	Reconciled
364351	14-JAN-16	14-JAN-16	AVISTA TECHNOLOGIES, INC		16,221.29	25-JAN-16	16,221.29	Reconciled
364352	14-JAN-16	14-JAN-16	B & B METALS, INC.		253.53	19-JAN-16	253.53	Reconciled
364353	14-JAN-16	14-JAN-16	BANK OF NEW YORK MELLON TRUST COMPANY NA		960.00	20-JAN-16	960.00	Reconciled
364354	14-JAN-16	14-JAN-16	BASELINE EQUIPMENT COMPANY		126.90	25-JAN-16	126.90	Reconciled
364355	14-JAN-16	14-JAN-16	BATTERIES PLUS AND BATTERIES PLUS BULBS		1,365.64	19-JAN-16	1,365.64	Reconciled
364356	14-JAN-16	14-JAN-16	BATTERY SPECIALTIES		578.72	21-JAN-16	578.72	Reconciled
364357	14-JAN-16	14-JAN-16	BDC SPECIAL WASTE		207.20	19-JAN-16	207.20	Reconciled
364358	14-JAN-16	14-JAN-16	BENJAMIN, LISA		692.59	04-FEB-16	692.59	Reconciled
364359	14-JAN-16	14-JAN-16	BIOMAGIC INC		11,425.52	21-JAN-16	11,425.52	Reconciled
364360	14-JAN-16	14-JAN-16	BOWLE, ARNESON, WILES & GIANNONE		29,265.83	26-JAN-16	29,265.83	Reconciled
364361	14-JAN-16	14-JAN-16	CALIFORNIA BARRICADE INC		5,340.00	19-JAN-16	5,340.00	Reconciled
364362	14-JAN-16	14-JAN-16	CAMPIL FARR INC		2,696.46	20-JAN-16	2,696.46	Reconciled
364363	14-JAN-16	14-JAN-16	CANON FINANCIAL SERVICES, INC		912.61	19-JAN-16	912.61	Reconciled
364364	14-JAN-16	14-JAN-16	CANON SOLUTIONS AMERICA, INC.		9,748.05	19-JAN-16	9,748.05	Reconciled
364365	14-JAN-16	14-JAN-16	CARL WARREN & CO		576.00	19-JAN-16	576.00	Reconciled
364366	14-JAN-16	14-JAN-16	CASTILLO, AARON		14.61			Voided
364367	14-JAN-16	14-JAN-16	CEPA OPERATIONS, INC		290.00	22-JAN-16	290.00	Reconciled
364368	14-JAN-16	14-JAN-16	CHYANG, YUN		12.42			Voided
364369	14-JAN-16	14-JAN-16	CITY OF IRVINE		4,053.35	29-JAN-16	4,053.35	Reconciled
364370	14-JAN-16	14-JAN-16	CIVILSOURCE, INC.		27,800.00	26-JAN-16	27,800.00	Reconciled
364371	14-JAN-16	14-JAN-16	COATING SPECIALISTS AND INSPECTION SERVICES, INC.		13,985.00	01-FEB-16	13,985.00	Reconciled
364372	14-JAN-16	14-JAN-16	CORELOGIC INC		60.00	19-JAN-16	60.00	Reconciled

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364373	14-JAN-16	14-JAN-16	CR & R INCORPORATED		94.98	20-JAN-16	94.98	Reconciled
364374	14-JAN-16	14-JAN-16	CR & R INCORPORATED		135.25	19-JAN-16	135.25	Reconciled
364375	14-JAN-16	14-JAN-16	DANGELO CO		7,824.90	19-JAN-16	7,824.90	Reconciled
364376	14-JAN-16	14-JAN-16	DEX MEDIA INC.		75.75	21-JAN-16	75.75	Reconciled
364377	14-JAN-16	14-JAN-16	DUZGUNCINAR, DOGUKAN		16.07			Negotiable
364378	14-JAN-16	14-JAN-16	EAST ORANGE COUNTY		12,235.93	05-FEB-16	12,235.93	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
364379		14-JAN-16	WATER DISTRICT E I & C ENGINEERING INC		28,130.00	22-JAN-16	28,130.00	Reconciled
364380		14-JAN-16	ELITE EQUIPMENT, INC.		422.57	19-JAN-16	422.57	Reconciled
364381		14-JAN-16	FARRELL & ASSOCIATES		48.84	19-JAN-16	48.84	Reconciled
364382		14-JAN-16	FARWEST CORROSION CONTROL COMPANY		926.33	19-JAN-16	926.33	Reconciled
364383		14-JAN-16	FEDEX		153.79	19-JAN-16	153.79	Reconciled
364384		14-JAN-16	FIRST CHOICE SERVICES		843.29	20-JAN-16	843.29	Reconciled
364385		14-JAN-16	FISHER SCIENTIFIC COMPANY LLC		1,211.04	19-JAN-16	1,211.04	Reconciled
364386		14-JAN-16	FLEET SOLUTIONS LLC		4,431.00	20-JAN-16	4,431.00	Reconciled
364387		14-JAN-16	FLW SERVICE CORPORATION		692.50	21-JAN-16	692.50	Reconciled
364388		14-JAN-16	FORESTRY SUPPLIERS INC		1,295.88	26-JAN-16	1,295.88	Reconciled
364389		14-JAN-16	FRONTLINE SENSORS AND SYSTEMS, INC.		9,312.20	22-JAN-16	9,312.20	Reconciled
364390		14-JAN-16	FULLER TRUCK ACCESSORIES		4,759.58	19-JAN-16	4,759.58	Reconciled
364391		14-JAN-16	GARZA INDUSTRIES, INC		1,295.57	19-JAN-16	1,295.57	Reconciled
364392		14-JAN-16	GE GRID SOLUTIONS, LLC		18,657.39	25-JAN-16	18,657.39	Reconciled
364393		14-JAN-16	GEMS SENSORS, INC.		1,244.83	19-JAN-16	1,244.83	Reconciled
364394		14-JAN-16	GHD INC.		3,159.15	20-JAN-16	3,159.15	Reconciled
364395		14-JAN-16	GILCHRIST, NINA		354.00	08-FEB-16	354.00	Reconciled
364396		14-JAN-16	GILLAM, RICHARD		2,363.96	20-JAN-16	2,363.96	Reconciled
364397		14-JAN-16	GRAINGER		7,113.27	19-JAN-16	7,113.27	Reconciled
364398		14-JAN-16	HACH COMPANY		1,654.41	19-JAN-16	1,654.41	Reconciled
364399		14-JAN-16	HARMSWORTH ASSOCIATES		8,870.00	20-JAN-16	8,870.00	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 10
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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364400		14-JAN-16	HARRINGTON INDUSTRIAL PLASTICS LLC		550.00	19-JAN-16	550.00	Reconciled
364401		14-JAN-16	HD SUPPLY WATERWORKS LTD		1,261.91	19-JAN-16	1,261.91	Reconciled
364402		14-JAN-16	HELEMATES STAFFING SERVICES		13,043.07	21-JAN-16	13,043.07	Reconciled
364403		14-JAN-16	HILL BROTHERS CHEMICAL COMPANY		5,583.50	19-JAN-16	5,583.50	Reconciled
364404		14-JAN-16	HOME DEPOT USA INC		583.33	19-JAN-16	583.33	Reconciled
364405		14-JAN-16	HSG INC		1,536.00	20-JAN-16	1,536.00	Reconciled
364406		14-JAN-16	HSIEH, HENRY		31.53			Negotiable
364407		14-JAN-16	HUNSAKER & ASSOCIATES IRVINE		1,365.00	19-JAN-16	1,365.00	Reconciled
364408		14-JAN-16	IBM CORPORATION		1,346.46	19-JAN-16	1,346.46	Reconciled
364409		14-JAN-16	IDENTICARD SYSTEMS WORLDWIDE		375.23	20-JAN-16	375.23	Reconciled
364410		14-JAN-16	IDEXX DISTRIBUTION, INC		1,152.91	19-JAN-16	1,152.91	Reconciled
364411		14-JAN-16	INDUSTRIAL METAL SUPPLY CO		105.49	19-JAN-16	105.49	Reconciled
364412		14-JAN-16	IRON MOUNTAIN INFORMATION MANAGEMENT INC		1,893.68	19-JAN-16	1,893.68	Reconciled
364413		14-JAN-16	IRVINE PIPE & SUPPLY INC		2,172.23	19-JAN-16	2,172.23	Reconciled
364414		14-JAN-16	JACOBS PROJECT MANAGEMENT CO.		26,600.00	25-JAN-16	26,600.00	Reconciled
364415		14-JAN-16	JEFFREY OFFICE PARK OA		3,895.65	26-JAN-16	3,895.65	Reconciled
364416		14-JAN-16	JONES, VINCE		46.41	25-JAN-16	46.41	Reconciled
364417		14-JAN-16	KIMBALL MIDWEST		1,199.29	19-JAN-16	1,199.29	Reconciled
364418		14-JAN-16	KLEINFELDER, INC.		81,671.25	22-JAN-16	81,671.25	Reconciled
364419		14-JAN-16	KONECRANES INC		771.60	19-JAN-16	771.60	Reconciled
364420		14-JAN-16	KS DIRECT LLC		762.48	19-JAN-16	762.48	Reconciled
364421		14-JAN-16	LANDCARE HOLDINGS, INC.		26,222.43	21-JAN-16	26,222.43	Reconciled
364422		14-JAN-16	LAS PALMAS APTS		834.06	28-JAN-16	834.06	Reconciled
364423		14-JAN-16	LCS TECHNOLOGIES, INC.		6,210.00	19-JAN-16	6,210.00	Reconciled
364424		14-JAN-16	LE, JOHN		84.68	27-JAN-16	84.68	Reconciled
364425		14-JAN-16	LEHIGH OUTFITTERS		149.67	19-JAN-16	149.67	Reconciled
364426		14-JAN-16	LIGHT COMMUNICATIONS INC		8,904.95			Negotiable

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 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364427		14-JAN-16	LILLESTRAND LEADERSHIP CONSULTING, INC.		868.09	04-FEB-16	868.09	Reconciled
364428		14-JAN-16	LOWERY, KYMBERLI		35.22			Negotiable
364429		14-JAN-16	LU'S LIGHTHOUSE, INC.		709.62	19-JAN-16	709.62	Reconciled
364430		14-JAN-16	MANNARELLI, SHARON		268.00	19-JAN-16	268.00	Reconciled
364431		14-JAN-16	ACCT# 8923510000 MARINA LANDSCAPE MAINTENANCE, INC.		6,152.82	20-JAN-16	6,152.82	Reconciled
364432		14-JAN-16	MARYANN BROWN		1,251.00	25-JAN-16	1,251.00	Reconciled
364433		14-JAN-16	MC FADDEN-DALE INDUSTRIAL		96.90	20-JAN-16	96.90	Reconciled
364434		14-JAN-16	MC MASTER CARR SUPPLY CO		3,751.91	19-JAN-16	3,751.91	Reconciled
364435		14-JAN-16	MOTHKURI, PRAVEEN		70.26			Negotiable
364436		14-JAN-16	MSC INDUSTRIAL SUPPLY CO		113.75	22-JAN-16	113.75	Reconciled
364437		14-JAN-16	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		295,152.16	21-JAN-16	295,152.16	Reconciled
364438		14-JAN-16	MYERS & SONS HI-WAY SAFETY, INC.		2,938.48	19-JAN-16	2,938.48	Reconciled
364439		14-JAN-16	NAKAE & ASSOCIATES		925.00	19-JAN-16	925.00	Reconciled
364440		14-JAN-16	NALCO CAL WATER, LLC		240.00	19-JAN-16	240.00	Reconciled
364441		14-JAN-16	NATURALWELL, LLC		1,237.50	19-JAN-16	1,237.50	Reconciled
364442		14-JAN-16	NATURE RESERVE OF ORANGE COUNTY		87,750.00			Voided
364443		14-JAN-16	NCL OF WISCONSIN INC		202.75	20-JAN-16	202.75	Reconciled
364444		14-JAN-16	NINYO & MOORE		444.00	19-JAN-16	444.00	Reconciled
364445		14-JAN-16	OC BACK AND BODY DOCTORS		4,727.74	01-FEB-16	4,727.74	Reconciled
364446		14-JAN-16	OLIN CORPORATION		14,237.04	22-JAN-16	14,237.04	Reconciled
364447		14-JAN-16	ONESOURCE DISTRIBUTORS LLC		14,992.89	21-JAN-16	14,992.89	Reconciled
364448		14-JAN-16	ORANGE COUNTY AUTO PARTS CO		526.41	19-JAN-16	526.41	Reconciled
364449		14-JAN-16	PACIFIC GAS AND ELECTRIC COMPANY		24.20	22-JAN-16	24.20	Reconciled
364450		14-JAN-16	PAPER DEPOT DOCUMENT DESTRUCTION LLC		720.00	22-JAN-16	720.00	Reconciled
364451		14-JAN-16	PARKHOUSE TIRE INC		2,474.37	20-JAN-16	2,474.37	Reconciled
IRWD Ledger Payment Register For 01-JAN-16 To 31-JAN-16 Report Date: 19-FEB-2016 08:31 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 12 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar) Payment Type: All Display Supplier Address: No								

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364452		14-JAN-16	PRAXAIR DISTRIBUTION INC		1,207.47	19-JAN-16	1,207.47	Reconciled
364453		14-JAN-16	PRONTO GYM SERVICES, INC.		114.48	20-JAN-16	114.48	Reconciled
364454		14-JAN-16	PTI SAND & GRAVEL INC		1,517.31	20-JAN-16	1,517.31	Reconciled
364455		14-JAN-16	QUICK MANUFACTURING INC		127.20	20-JAN-16	127.20	Reconciled
364456		14-JAN-16	RAINBOW DISPOSAL CO INC		325.21	31-JAN-16	325.21	Cleared
364457		14-JAN-16	RAM AIR ENGINEERING INC		5,920.00	19-JAN-16	5,920.00	Reconciled
364458		14-JAN-16	RANCHO MARIPOSA APTS		1,369.71	28-JAN-16	1,369.71	Reconciled
364459		14-JAN-16	REFRIGERATION SUPPLIES DISTRIBUTOR		785.62	19-JAN-16	785.62	Reconciled
364460		14-JAN-16	RESOURCE BUILDING MATERIAL		1,227.20	19-JAN-16	1,227.20	Reconciled
364461		14-JAN-16	RESPONSE ENVELOPE, INC		2,096.06	21-JAN-16	2,096.06	Reconciled
364462		14-JAN-16	RINCON TRUCK CENTER INC.		444.99	19-JAN-16	444.99	Reconciled
364463		14-JAN-16	RITEWAY AUTO PAINT & BODYWORKS		2,592.00	19-JAN-16	2,592.00	Reconciled
364464		14-JAN-16	ROBERT HALF INTERNATIONAL, INC.		931.50	19-JAN-16	931.50	Reconciled
364465		14-JAN-16	SABA, TYMOUR		1,032.06			Negotiable
364466		14-JAN-16	SANTA ANA BLUE PRINT		296.63	20-JAN-16	296.63	Reconciled
364467		14-JAN-16	SANTA MARGARITA		853.27	19-JAN-16	853.27	Reconciled

364468	14-JAN-16	FORD SCHULER ENGINEERING CORPORATION	87,099.16	21-JAN-16	87,099.16	Reconciled
364469	14-JAN-16	SEALS WEST PACKING CO.	411.80	25-JAN-16	411.80	Reconciled
364470	14-JAN-16	SERRANO APARTMENTS	279.31	28-JAN-16	279.31	Reconciled
364471	14-JAN-16	SHAH, VAARUNI	34.76	19-JAN-16	34.76	Reconciled
364472	14-JAN-16	SHAMROCK SUPPLY CO INC	967.31	19-JAN-16	967.31	Reconciled
364473	14-JAN-16	SOUTH COAST WATER CO.	40.00	20-JAN-16	40.00	Reconciled
364474	14-JAN-16	SOUTH COAST WATER DISTRICT	2,519.00	19-JAN-16	2,519.00	Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364475		14-JAN-16	SOUTHERN CALIFORNIA EDISON COMPANY		12,488.87	19-JAN-16	12,488.87	Reconciled
364476		14-JAN-16	SOUTHERN CALIFORNIA SECURITY CENTER, INC.		84.24	20-JAN-16	84.24	Reconciled
364477		14-JAN-16	SPATIAL WAVE, INC.		11,240.00	21-JAN-16	11,240.00	Reconciled
364478		14-JAN-16	SPX CORP		323.13	19-JAN-16	323.13	Reconciled
364479		14-JAN-16	STANDARD REGISTER, INC.		2,570.85	19-JAN-16	2,570.85	Reconciled
364480		14-JAN-16	STANTEC CONSULTING SERVICES INC.		19,037.00	22-JAN-16	19,037.00	Reconciled
364481		14-JAN-16	STERIS CORPORATION		7,060.87	19-JAN-16	7,060.87	Reconciled
364482		14-JAN-16	SUPERIOR WATER TECHNOLOGIES		4,320.00	20-JAN-16	4,320.00	Reconciled
364483		14-JAN-16	TETRA TECH, INC		11,195.00	25-JAN-16	11,195.00	Reconciled
364484		14-JAN-16	THE GAS COMPANY		1,470.04	28-JAN-16	1,470.04	Reconciled
364485		14-JAN-16	THOMPSON INDUSTRIAL SUPPLY		4,345.54	19-JAN-16	4,345.54	Reconciled
364486		14-JAN-16	THYSSENKRUPP ELEVATOR CORPORATION		147.25	19-JAN-16	147.25	Reconciled
364487		14-JAN-16	TIC-SPECTRUM OFFICE		512.90	21-JAN-16	512.90	Reconciled
364488		14-JAN-16	TROPICAL PLAZA NURSERY INC		12,127.50	21-JAN-16	12,127.50	Reconciled
364489		14-JAN-16	TRUCPARCO		1,158.53	27-JAN-16	1,158.53	Reconciled
364490		14-JAN-16	TTS ENGINEERING, INC		48.22	01-FEB-16	48.22	Reconciled
364491		14-JAN-16	ULTRA SCIENTIFIC		1,208.30	20-JAN-16	1,208.30	Reconciled
364492		14-JAN-16	UNITED RENTALS NORTHWEST INC		65,829.50	21-JAN-16	65,829.50	Reconciled
364493		14-JAN-16	UNITED SITE SERVICES OF CALIFORNIA INC		478.25	19-JAN-16	478.25	Reconciled
364494		14-JAN-16	USA BLUEBOOK		3,183.26	22-JAN-16	3,183.26	Reconciled
364495		14-JAN-16	VALLEYCREST LANDSCAPE DEVELOPMENT, INC.		3,375.12	19-JAN-16	3,375.12	Reconciled
364496		14-JAN-16	VCS ENVIRONMENTAL		773.89	19-JAN-16	773.89	Reconciled
364497		14-JAN-16	VERIZON CALIFORNIA INC		50.92	20-JAN-16	50.92	Reconciled
364498		14-JAN-16	VERIZON WIRELESS SERVICES LLC		4,181.12	22-JAN-16	4,181.12	Reconciled

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Payment Document : IRWD CHECK								
364499		14-JAN-16	VISION TECHNOLOGY SOLUTIONS, LLC		2,025.00			Negotiable
364500		14-JAN-16	WALTERS WHOLESALE ELECTRIC		65,256.13	21-JAN-16	65,256.13	Reconciled
364501		14-JAN-16	WALTON MOTORS & CONTROLS INC		9,414.46	19-JAN-16	9,414.46	Reconciled
364502		14-JAN-16	WANG, KENNY		161.82	20-JAN-16	161.82	Reconciled
364503		14-JAN-16	WASTE MANAGEMENT OF ORANGE COUNTY		2,528.06	19-JAN-16	2,528.06	Reconciled
364504		14-JAN-16	WESTAMERICA COMMUNICATIONS, INC.		16,676.00	21-JAN-16	16,676.00	Reconciled
364505		14-JAN-16	YP LLC		123.50	19-JAN-16	123.50	Reconciled
364506		14-JAN-16	YRC INC		285.00	19-JAN-16	285.00	Reconciled

364507	14-JAN-16	YSI, INC		19,635.80	25-JAN-16	19,635.80	Reconciled
364508	18-JAN-16	ORANGE COUNTY SANITATION DISTRICT	FOUNTAIN VALLEY	2,018,483.25	21-JAN-16	2,018,483.25	Reconciled
364509	18-JAN-16	ARCADIS U.S., INC.	CHICAGO 1	87,539.45	25-JAN-16	87,539.45	Reconciled
364510	18-JAN-16	C WELLS PIPELINE MATERIALS INC	CORONA	22,571.84	25-JAN-16	22,571.84	Reconciled
364511	18-JAN-16	CIVILSOURCE, INC.	IRVINE 1	13,818.00	26-JAN-16	13,818.00	Reconciled
364512	18-JAN-16	DATASITE INC	PAY	13,272.00	02-FEB-16	13,272.00	Reconciled
364513	18-JAN-16	GHD INC.	PASADENA	34,565.00	22-JAN-16	34,565.00	Reconciled
364514	18-JAN-16	HDR ENGINEERING INC	OMAHA	15,578.29	25-JAN-16	15,578.29	Reconciled
364515	18-JAN-16	HELPMATES STAFFING SERVICES	IRVINE	15,103.83	21-JAN-16	15,103.83	Reconciled
364516	18-JAN-16	L. G. SUPPLY COMPANY	PURCHASE	16,535.88	25-JAN-16	16,535.88	Reconciled
364517	18-JAN-16	MARINA LANDSCAPE MAINTENANCE, INC.	PURCHASE_P AY	12,246.14	25-JAN-16	12,246.14	Reconciled
364518	18-JAN-16	MICHAEL BAKER INTERNATIONAL, INC.	PURCHASE	14,669.55	22-JAN-16	14,669.55	Reconciled
364519	18-JAN-16	OLIN CORPORATION	ATLANTA	11,241.35	22-JAN-16	11,241.35	Reconciled
364520	18-JAN-16	REED, JAMES D	PURCHASE_P AY	1,920.00	26-JAN-16	1,920.00	Reconciled
364521	18-JAN-16	OUTFRONT MEDIA LLC	PURCHASE	19,148.50	22-JAN-16	19,148.50	Reconciled
364522	18-JAN-16	POLLARDWATER.COM	BOSTON	11,466.25	22-JAN-16	11,466.25	Reconciled
364523	18-JAN-16	SECURTEC DISTRICT PATROL, INC.	PAY	11,467.00	22-JAN-16	11,467.00	Reconciled
364524	18-JAN-16	THE IRVINE COMPANY LLC	PO BOX 844611 SAN	15,000.00	22-JAN-16	15,000.00	Reconciled
364525	18-JAN-16	WATERSMART SOFTWARE, INC	SAN FRANCISCO	17,974.42	27-JAN-16	17,974.42	Reconciled

IRWD Ledger
 BANK: Bank of America N.A. Branch : Los Angeles
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Payment Document : IRWD CHECK								
364526		18-JAN-16	US BANK NAT'L ASSOCIATION NORTH DAKOTA	PO BOX 790428	123,355.60	28-JAN-16	123,355.60	Reconciled
364527		19-JAN-16	JCI JONES CHEMICALS INC	CINCINNATI	5,505.50	25-JAN-16	5,505.50	Reconciled
364528		20-JAN-16	AMBER PROPERTY MANAGEMENT	PAY	856.14			Voided
364529		21-JAN-16	CAVALIER, ROBERT	PAY	976.25	22-JAN-16	976.25	Reconciled
364530		21-JAN-16	Garcia, Alejandro (Alex)		86.00	08-FEB-16	86.00	Reconciled
364531		21-JAN-16	Compton, Christine A		200.40			Negotiable
364532		21-JAN-16	McBride, Damien J		81.00	01-FEB-16	81.00	Reconciled
364533		21-JAN-16	Lassalette, James P (Jim)		103.00	01-FEB-16	103.00	Reconciled
364534		21-JAN-16	Tettmer, John M (Mark)		36.00			Negotiable
364535		21-JAN-16	Withers, John B		365.44	26-JAN-16	365.44	Reconciled
364536		21-JAN-16	Pfister, Ken D (Ken)		75.45	11-FEB-16	75.45	Reconciled
364537		21-JAN-16	Weghorst, Paul A (Paul)		82.47	21-JAN-16	82.47	Reconciled
364538		21-JAN-16	Swan, Peer		154.65	29-JAN-16	154.65	Reconciled
364539		21-JAN-16	Vazquez, Rafael		170.00	25-JAN-16	170.00	Reconciled
364540		21-JAN-16	Schulze, Richard W (Richard)		164.00	01-FEB-16	164.00	Reconciled
364541		21-JAN-16	Ashby, Robert L (Rob)		1,258.74	22-JAN-16	1,258.74	Reconciled
364542		21-JAN-16	Perez, Rodolfo (Rudy)		250.00			Negotiable
364543		21-JAN-16	LaMar, Steven E		716.25	25-JAN-16	716.25	Reconciled
364544		21-JAN-16	AAF INTERNATIONAL		1,244.48	26-JAN-16	1,244.48	Reconciled
364545		21-JAN-16	ADA TECHNOLOGY PARK ASSN		1,681.01	27-JAN-16	1,681.01	Reconciled
364546		21-JAN-16	AKIL CONSTRUCTION		1,025.00	25-JAN-16	1,025.00	Reconciled
364547		21-JAN-16	ALLIANCE FOR WATER EFFICIENCY NFP		1,535.69	26-JAN-16	1,535.69	Reconciled
364548		21-JAN-16	ANTHONY SUFFREDINI		800.00	26-JAN-16	800.00	Reconciled
364549		21-JAN-16	APPLIED TECHNOLOGY GROUP INC		2,851.90	25-JAN-16	2,851.90	Reconciled
364550		21-JAN-16	AT&T		19.09	26-JAN-16	19.09	Reconciled
364551		21-JAN-16	AT&T		3,651.17	26-JAN-16	3,651.17	Reconciled
364552		21-JAN-16	ATHENS SERVICES		7,869.00	25-JAN-16	7,869.00	Reconciled
364553		21-JAN-16	BADEN, LAURA		5.10	01-FEB-16	5.10	Reconciled

IRWD Ledger
 BANK: Bank of America N.A. Branch : Los Angeles
 Bank Account Currency: USD (US Dollar)
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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
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Payment Document : IRWD CHECK

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
364554	21-JAN-16	BATTERIES PLUS AND BATTERIES PLUS BULBS			2,715.66	25-JAN-16	2,715.66	Reconciled
364555	21-JAN-16	BATTERY SPECIALTIES			4,182.40	01-FEB-16	4,182.40	Reconciled
364556	21-JAN-16	BELL TOWER FLORIST & GIFTS			97.19	11-FEB-16	97.19	Reconciled
364557	21-JAN-16	BILL'S SWEEPING SERVICE INC			460.00	25-JAN-16	460.00	Reconciled
364558	21-JAN-16	BIOMAGIC INC			501.12	25-JAN-16	501.12	Reconciled
364559	21-JAN-16	BONTERRA CONSULTING LLC			1,893.80	27-JAN-16	1,893.80	Reconciled
364560	21-JAN-16	BOONE, MARILYN D			14.87			Negotiable
364561	21-JAN-16	BORCHARD SURVEYING & MAPPING, INC.			1,800.00	26-JAN-16	1,800.00	Reconciled
364562	21-JAN-16	C WELLS PIPELINE MATERIALS INC			6,053.40	26-JAN-16	6,053.40	Reconciled
364563	21-JAN-16	CALIFORNIA BARRICADE INC			9,034.50	27-JAN-16	9,034.50	Reconciled
364564	21-JAN-16	CALIFORNIA MUNICIPAL			2,350.00	28-JAN-16	2,350.00	Reconciled
364565	21-JAN-16	STATISTICS INC CALIFORNIA PACIFIC HOMES			0.21	27-JAN-16	0.21	Reconciled
364566	21-JAN-16	CANON SOLUTIONS AMERICA, INC.			4,366.37	25-JAN-16	4,366.37	Reconciled
364567	21-JAN-16	CITY OF LAKE FOREST			2,649.43			Negotiable
364568	21-JAN-16	CLEAN ENERGY			1,019.23	26-JAN-16	1,019.23	Reconciled
364569	21-JAN-16	CNC ENGINEERING			1,615.00	28-JAN-16	1,615.00	Reconciled
364570	21-JAN-16	COASTAL IGNITION & CONTROLS, INC			86.10	26-JAN-16	86.10	Reconciled
364571	21-JAN-16	CONTROLLED MOTION SOLUTIONS, INC			627.88	25-JAN-16	627.88	Reconciled
364572	21-JAN-16	COSTCO WHOLESALE MEMBERSHIP			275.00	03-FEB-16	275.00	Reconciled
364573	21-JAN-16	COX COMMUNICATIONS, INC.			109.00	26-JAN-16	109.00	Reconciled
364574	21-JAN-16	CREATIVE ALLIANCE GROUP LLC			500.00	26-JAN-16	500.00	Reconciled
364575	21-JAN-16	CROCKER & CROCKER			8,772.65	28-JAN-16	8,772.65	Reconciled
364576	21-JAN-16	DARTMOUTH COURT APTS			25.58			Negotiable
364577	21-JAN-16	DATA CLEAN CORPORATION			526.50	26-JAN-16	526.50	Reconciled

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 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364578	21-JAN-16	DECOU, JESSICA			35.04	27-JAN-16	35.04	Reconciled
364579	21-JAN-16	DEE JASPAR & ASSOCIATES, INC.			11,074.88	29-JAN-16	11,074.88	Reconciled
364580	21-JAN-16	DELL MARKETING LP			1,494.68	25-JAN-16	1,494.68	Reconciled
364581	21-JAN-16	DESIGNWORX			2,875.00			Negotiable
364582	21-JAN-16	DIRECTV INC			111.07	27-JAN-16	111.07	Reconciled
364583	21-JAN-16	DUDEK			2,370.00	26-JAN-16	2,370.00	Reconciled
364584	21-JAN-16	E.J. MEYER COMPANY, INC.			586,231.56	28-JAN-16	586,231.56	Reconciled
364585	21-JAN-16	E.J. MEYER COMPANY, INC.			30,854.29	27-JAN-16	30,854.29	Reconciled
364586	21-JAN-16	EAGLE MICROSYSTEMS, INC.			59.36	29-JAN-16	59.36	Reconciled
364587	21-JAN-16	EMERGENCY COMMUNICATIONS NETWORK, LLC			25,000.00	28-JAN-16	25,000.00	Reconciled
364588	21-JAN-16	ENVIRONMENTAL RESOURCE ASSOCIATES			440.18	26-JAN-16	440.18	Reconciled
364589	21-JAN-16	FARRELL & ASSOCIATES			658.69	27-JAN-16	658.69	Reconciled
364590	21-JAN-16	FEDEX			116.11	25-JAN-16	116.11	Reconciled
364591	21-JAN-16	FIGUEROA, DARIO			395.00	01-FEB-16	395.00	Reconciled
364592	21-JAN-16	FISERV			15,572.34	27-JAN-16	15,572.34	Reconciled
364593	21-JAN-16	FUSCOE ENGINEERING, INC.			200.00	25-JAN-16	200.00	Reconciled
364594	21-JAN-16	GARZA INDUSTRIES, INC			1,295.57	25-JAN-16	1,295.57	Reconciled
364595	21-JAN-16	GEI CONSULTANTS INC			16,098.60	28-JAN-16	16,098.60	Reconciled
364596	21-JAN-16	GEORGE YARDLEY CO., INC.			2,798.50	25-JAN-16	2,798.50	Reconciled
364597	21-JAN-16	GRAINGER			2,275.15	25-JAN-16	2,275.15	Reconciled
364598	21-JAN-16	GWAVA			2,492.00	25-JAN-16	2,492.00	Reconciled

364599	21-JAN-16	TECHNOLOGIES, INC. HACH COMPANY	711.80	25-JAN-16	711.80	Reconciled
364600	21-JAN-16	HALCYON ELECTRIC INC	34,808.00	29-JAN-16	34,808.00	Reconciled
364601	21-JAN-16	HARPER & ASSOCIATES ENGINEERING INC	2,156.25	10-FEB-16	2,156.25	Reconciled
364602	21-JAN-16	HELPMATES STAFFING SERVICES	23,549.86	27-JAN-16	23,549.86	Reconciled
364603	21-JAN-16	HILL BROTHERS CHEMICAL COMPANY	5,919.45	25-JAN-16	5,919.45	Reconciled
364604	21-JAN-16	HO, STEVEN V	104.50	01-FEB-16	104.50	Reconciled

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 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364605		21-JAN-16	HOME DEPOT USA INC		449.98	26-JAN-16	449.98	Reconciled
364606		21-JAN-16	HOPKINS TECHNICAL PRODUCTS INC		10,078.92	28-JAN-16	10,078.92	Reconciled
364607		21-JAN-16	HUNSAKER & ASSOCIATES IRVINE		896.00	25-JAN-16	896.00	Reconciled
364608		21-JAN-16	INFOSYS LIMITED		25,000.00	28-JAN-16	25,000.00	Reconciled
364609		21-JAN-16	IRVINE COMMUNITY DEVELOPMENT COMPANY LLC		847,207.44	01-FEB-16	847,207.44	Reconciled
364610		21-JAN-16	IRVINE PIPE & SUPPLY INC		532.24	25-JAN-16	532.24	Reconciled
364611		21-JAN-16	KIM, JANIE		239.28	25-JAN-16	239.28	Reconciled
364612		21-JAN-16	KIM, SOON TAE		2,600.00	25-JAN-16	2,600.00	Reconciled
364613		21-JAN-16	KLEINFELDER, INC.		12,982.04	28-JAN-16	12,982.04	Reconciled
364614		21-JAN-16	LAGUNA BEACH COUNTY WATER DISTRICT		970.74	26-JAN-16	970.74	Reconciled
364615		21-JAN-16	LANDCARE HOLDINGS, INC.		56,933.35	27-JAN-16	56,933.35	Reconciled
364616		21-JAN-16	LEWIS BRISBOIS BISGAARD AND SMITH, LLP		4,780.00			Negotiable
364617		21-JAN-16	LEWIS OPERATING CORP		1,600.00	26-JAN-16	1,600.00	Reconciled
364618		21-JAN-16	LUBRICATION ENGINEERS, INC.		4,104.75	25-JAN-16	4,104.75	Reconciled
364619		21-JAN-16	LUOH, ESTHER		27.35	25-JAN-16	27.35	Reconciled
364620		21-JAN-16	LUONG, HOLLY		286.50	25-JAN-16	286.50	Reconciled
364621		21-JAN-16	MALLOY FAMILY PARTNERS LP		84.15	27-JAN-16	84.15	Reconciled
364622		21-JAN-16	MARVIN GARDENS LLC		2,593.70	21-JAN-16	2,593.70	Reconciled
364623		21-JAN-16	MATSEN, CLINT		2,108.71	25-JAN-16	2,108.71	Reconciled
364624		21-JAN-16	MC FADDEN-DALE INDUSTRIAL		17.19	25-JAN-16	17.19	Reconciled
364625		21-JAN-16	MC MASTER CARR SUPPLY CO		1,619.40	26-JAN-16	1,619.40	Reconciled
364626		21-JAN-16	MECSOFT CORPORATION		400.00	26-JAN-16	400.00	Reconciled
364627		21-JAN-16	MEGGER		280.75	25-JAN-16	280.75	Reconciled
364628		21-JAN-16	MERRILL LYNCH, PIERCE, FENNER & SMITH INCORPORATED		17,984.11	28-JAN-16	17,984.11	Reconciled
364629		21-JAN-16	MICHAEL J. KLINEFELTER		1,410.00			Negotiable

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 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364630		21-JAN-16	MOBILE MODULAR MANAGEMENT CORPORATION		972.00	27-JAN-16	972.00	Reconciled
364631		21-JAN-16	MOODY'S INVESTORS SERVICE INC		5,500.00	26-JAN-16	5,500.00	Reconciled
364632		21-JAN-16	MSC INDUSTRIAL SUPPLY CO		2,055.14	28-JAN-16	2,055.14	Reconciled
364633		21-JAN-16	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		16,603.56	27-JAN-16	16,603.56	Reconciled
364634		21-JAN-16	MURDIE, CATHY		323.00	25-JAN-16	323.00	Reconciled
364635		21-JAN-16	NATIONAL CINEMEDIA, LLC		5,432.00	27-JAN-16	5,432.00	Reconciled
364636		21-JAN-16	NATIONAL READY MIXED CONCRETE CO.		1,859.60	25-JAN-16	1,859.60	Reconciled
364637		21-JAN-16	NATURALWELL, LLC		797.50	25-JAN-16	797.50	Reconciled
364638		21-JAN-16	NATURES IMAGE INC		2,798.96	25-JAN-16	2,798.96	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
364639		21-JAN-16	NINYO & MOORE		2,964.00	25-JAN-16	2,964.00	Reconciled
364640		21-JAN-16	OLIN CORPORATION		2,561.17	25-JAN-16	2,561.17	Reconciled
364641		21-JAN-16	ONESOURCE		1,061.29	25-JAN-16	1,061.29	Reconciled
364642		21-JAN-16	DISTRIBUTORS LLC					
			OREMOR OF TUSTIN, INC.		11,261.85	28-JAN-16	11,261.85	Reconciled
364643		21-JAN-16	PACIFIC COAST BOLT CORP		936.26	26-JAN-16	936.26	Reconciled
364644		21-JAN-16	PINNACLE TOWERS LLC		666.04	25-JAN-16	666.04	Reconciled
364645		21-JAN-16	POST GRADING COMPANY		1,475.24	25-JAN-16	1,475.24	Reconciled
364646		21-JAN-16	REAL WATER CONSULTANTS INC.		5,214.00	03-FEB-16	5,214.00	Reconciled
364647		21-JAN-16	RESOLUTE CONTACTORS		708.76	16-FEB-16	708.76	Reconciled
364648		21-JAN-16	RESOLUTE CONTRACTORS		747.35	16-FEB-16	747.35	Reconciled
364649		21-JAN-16	RMC WATER AND ENVIRONMENT		15,738.55	27-JAN-16	15,738.55	Reconciled
364650		21-JAN-16	ROBERT HALF INTERNATIONAL, INC.		1,944.00	25-JAN-16	1,944.00	Reconciled
364651		21-JAN-16	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT		110,241.01	29-JAN-16	110,241.01	Reconciled
364652		21-JAN-16	RS HUGHES COMPANY, INC.		1,238.01	25-JAN-16	1,238.01	Reconciled
364653		21-JAN-16	RUAN, QI		44.22	09-FEB-16	44.22	Reconciled

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364654		21-JAN-16	SAN PAULO APTS		156.50			Negotiable
364655		21-JAN-16	SANTA ANA BLUE PRINT		1,121.89	26-JAN-16	1,121.89	Reconciled
364656		21-JAN-16	SANTA MARIA APTS		208.45			Negotiable
364657		21-JAN-16	SANTA ROSA APARTMENTS		314.95			Negotiable
364658		21-JAN-16	SANTIAGO AQUEDUCT COMMISSION		4,894.58	01-FEB-16	4,894.58	Reconciled
364659		21-JAN-16	SCOTT HEALTH & SAFETY		1,417.09	28-JAN-16	1,417.09	Reconciled
364660		21-JAN-16	SECURTEC DISTRICT PATROL, INC.		11,467.00	02-FEB-16	11,467.00	Reconciled
364661		21-JAN-16	SHAH, HIREN		925.78	29-JAN-16	925.78	Reconciled
364662		21-JAN-16	SHAMROCK SUPPLY CO INC		688.19	25-JAN-16	688.19	Reconciled
364663		21-JAN-16	SHMUKLER, IRINA		47.57	08-FEB-16	47.57	Reconciled
364664		21-JAN-16	SITMATIC		3,675.74	25-JAN-16	3,675.74	Reconciled
364665		21-JAN-16	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		121.44	03-FEB-16	121.44	Reconciled
364666		21-JAN-16	SOUTH COAST WATER CO.		151.68	25-JAN-16	151.68	Reconciled
364667		21-JAN-16	SOUTH ORANGE COUNTY WASTEWATER AUTHORITY		60,172.00	28-JAN-16	60,172.00	Reconciled
364668		21-JAN-16	SOUTHERN CALIFORNIA EDISON COMPANY		462,683.89	25-JAN-16	462,683.89	Reconciled
364669		21-JAN-16	SOUTHERN CALIFORNIA PUBLIC LABOR RELATIONS COUNCIL		150.00			Negotiable
364670		21-JAN-16	SPARKLETTS		371.09	28-JAN-16	371.09	Reconciled
364671		21-JAN-16	STANDARD & POOR'S FINANCIAL SERVICES LLC		3,500.00	25-JAN-16	3,500.00	Reconciled
364672		21-JAN-16	STATE BOARD OF EQUALIZATION		1,658.00	28-JAN-16	1,658.00	Reconciled
364673		21-JAN-16	TEL SEC CONSULT, LLC		7,500.00	26-JAN-16	7,500.00	Reconciled
364674		21-JAN-16	TEREX SERVICES		2,450.40	25-JAN-16	2,450.40	Reconciled
364675		21-JAN-16	TESTAMERICA LABORATORIES, INC		192.15	26-JAN-16	192.15	Reconciled
364676		21-JAN-16	THE GAS COMPANY		6,537.68	02-FEB-16	6,537.68	Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								

364677	21-JAN-16	THE TERRACE COMMUNITY ASSOCIATION		6.87	25-JAN-16	6.87	Reconciled
364678	21-JAN-16	THRIPP, JAMES		36.57			Negotiable
364679	21-JAN-16	TIC-OFFICE PROPERTIES		292.82	27-JAN-16	292.82	Reconciled
364680	21-JAN-16	TROPICAL PLAZA NURSERY INC		31,900.58	27-JAN-16	31,900.58	Reconciled
364681	21-JAN-16	TURTLE ROCK CANYON APTS		62.47			Negotiable
364682	21-JAN-16	U.S. HEALTHWORKS MEDICAL GROUP, P.C.		635.00	25-JAN-16	635.00	Reconciled
364683	21-JAN-16	UNITED PARCEL SERVICE INC		64.59	25-JAN-16	64.59	Reconciled
364684	21-JAN-16	URS CORPORATION		6,871.59	25-JAN-16	6,871.59	Reconciled
364685	21-JAN-16	US BANK NAT'L ASSOC N.DAKOTA		11,468.49	29-JAN-16	11,468.49	Reconciled
364686	21-JAN-16	USA BLUEBOOK		228.53	27-JAN-16	228.53	Reconciled
364687	21-JAN-16	VERIZON CALIFORNIA INC		269.80	25-JAN-16	269.80	Reconciled
364688	21-JAN-16	WALTERS WHOLESALE ELECTRIC		107.11	26-JAN-16	107.11	Reconciled
364689	21-JAN-16	WATER SYSTEMS ENGINEERING, INC.		1,270.00	29-JAN-16	1,270.00	Reconciled
364690	21-JAN-16	WATERSMART SOFTWARE, INC		17,974.42	28-JAN-16	17,974.42	Reconciled
364691	21-JAN-16	WATERWISE CONSULTING, INC.		3,850.00	25-JAN-16	3,850.00	Reconciled
364692	21-JAN-16	WAXIE'S ENTERPRISES, INC		1,700.98	25-JAN-16	1,700.98	Reconciled
364693	21-JAN-16	WEINTRAUB, BARBARA A		363.49	16-FEB-16	363.49	Reconciled
364694	21-JAN-16	WESLEY, BRUNS		26.03	01-FEB-16	26.03	Reconciled
364695	21-JAN-16	ORANGE COUNTY SANITATION DISTRICT	FOUNTAIN VALLEY	10,859.67	27-JAN-16	10,859.67	Reconciled
364696	22-JAN-16	ORANGE COUNTY SHERIFF'S OFFICE	4601 JAMBOREE	62.50	03-FEB-16	62.50	Reconciled
364697	22-JAN-16	PERS LONG TERM CARE	PASADENA	771.11	27-JAN-16	771.11	Reconciled
364698	22-JAN-16	FRANCHISE TAX BOARD	SACRAMENTO 1	856.13	29-JAN-16	856.13	Reconciled
364699	22-JAN-16	CLEARINGHOUSE	PHOENIX	477.67	26-JAN-16	477.67	Reconciled
364700	22-JAN-16	IRWD EMPLOYEE ASSOCIATION	15600 SC	620.00	01-FEB-16	620.00	Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364701		28-JAN-16	Ordonez, Bernardino A (Berny)		125.00			Negotiable
364702		28-JAN-16	Hjorth, Charles O (Charles)		250.00	01-FEB-16	250.00	Reconciled
364703		28-JAN-16	Perez, David M (David)		50.00	08-FEB-16	50.00	Reconciled
364704		28-JAN-16	Reinhart, Douglas J		1,250.60	01-FEB-16	1,250.60	Reconciled
364705		28-JAN-16	Soto, Franklin E (Frank)		445.96	02-FEB-16	445.96	Reconciled
364706		28-JAN-16	Sosa, Ives (Ives)		200.00	08-FEB-16	200.00	Reconciled
364707		28-JAN-16	Kallo, John		190.00	01-FEB-16	190.00	Reconciled
364708		28-JAN-16	Silva, Jose A (Jose)		250.00	09-FEB-16	250.00	Reconciled
364709		28-JAN-16	Burton, Kevin L (Kevin)		18.85	28-JAN-16	18.85	Reconciled
364710		28-JAN-16	Bonkowski, Leslie A (Leslie)		184.28	01-FEB-16	184.28	Reconciled
364711		28-JAN-16	Cano, Marco T (Marco)		118.78	04-FEB-16	118.78	Reconciled
364712		28-JAN-16	Matheis, Mary Aileen		1,427.58	01-FEB-16	1,427.58	Reconciled
364713		28-JAN-16	Daniel, Matthew (Matthew)		34.55	01-FEB-16	34.55	Reconciled
364714		28-JAN-16	Borowski, Michael		164.00	03-FEB-16	164.00	Reconciled
364715		28-JAN-16	Pizanie, Nicholas B		86.39	02-FEB-16	86.39	Reconciled
364716		28-JAN-16	Swan, Peer		1,114.62	01-FEB-16	1,114.62	Reconciled
364717		28-JAN-16	Reynoso, Pio (Pio)		255.00	01-FEB-16	255.00	Reconciled
364718		28-JAN-16	Moore, Rory M (Rory)		346.00	02-FEB-16	346.00	Reconciled
364719		28-JAN-16	Van Deusen, Scott A (Scott)		81.00	01-FEB-16	81.00	Reconciled
364720		28-JAN-16	A.J. KLEIN, INC. T. DENATALE, B. GOLDNER		490.00	01-FEB-16	490.00	Reconciled
364721		28-JAN-16	AFLAC		7,361.52	03-FEB-16	7,361.52	Reconciled

364722	28-JAN-16	AFLAC		343.34				Negotiable
364723	28-JAN-16	AKM CONSULTING ENGINEERS, INC.		102,343.70	03-FEB-16	102,343.70		Reconciled
364724	28-JAN-16	ALL AMERICAN ASPHALT		1,402.97	18-FEB-16	1,402.97		Reconciled
364725	28-JAN-16	ALSTON & BIRD LLP		785.95	01-FEB-16	785.95		Reconciled
364726	28-JAN-16	ALTA SERVICES INC		715.43	02-FEB-16	715.43		Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364727		28-JAN-16	AMERICAN GEOTECHNICAL, INC.		2,275.00	01-FEB-16	2,275.00	Reconciled
364728		28-JAN-16	AMERICAN VAN EQUIPMENT, INC		2,184.70	01-FEB-16	2,184.70	Reconciled
364729		28-JAN-16	ANDERSONPENNA PARTNERS, INC		15,502.00	08-FEB-16	15,502.00	Reconciled
364730		28-JAN-16	ARCHROCK SERVICES, L.P.		8,840.09	01-FEB-16	8,840.09	Reconciled
364731		28-JAN-16	AT&T		50.65	02-FEB-16	50.65	Reconciled
364732		28-JAN-16	AT&T		6,699.06	02-FEB-16	6,699.06	Reconciled
364733		28-JAN-16	AUTOZONE PARTS, INC.		874.85	02-FEB-16	874.85	Reconciled
364734		28-JAN-16	BARTEL ASSOCIATES, LLC		617.50	01-FEB-16	617.50	Reconciled
364735		28-JAN-16	BATTERIES PLUS AND BATTERIES PLUS BULBS		1,547.33	01-FEB-16	1,547.33	Reconciled
364736		28-JAN-16	BIGWIG MONSTER, LLC		2,550.00	01-FEB-16	2,550.00	Reconciled
364737		28-JAN-16	BILL'S SWEEPING SERVICE INC		575.00	02-FEB-16	575.00	Reconciled
364738		28-JAN-16	BLACK & VEATCH CORPORATION		253,222.34	04-FEB-16	253,222.34	Reconciled
364739		28-JAN-16	BOOT WORLD, INC.		2,213.00	10-FEB-16	2,213.00	Reconciled
364740		28-JAN-16	BORCHARD SURVEYING & MAPPING, INC.		1,580.00	03-FEB-16	1,580.00	Reconciled
364741		28-JAN-16	BROOKS PRODUCTS		1,029.84	02-FEB-16	1,029.84	Reconciled
364742		28-JAN-16	BTF PRECISE MICROBIOLOGY INC.		525.20	02-FEB-16	525.20	Reconciled
364743		28-JAN-16	BUSH & ASSOCIATES INC		2,356.00			Negotiable
364744		28-JAN-16	C WELLS PIPELINE MATERIALS INC		738.62	02-FEB-16	738.62	Reconciled
364745		28-JAN-16	CALIFORNIA BARRICADE INC		2,290.12	02-FEB-16	2,290.12	Reconciled
364746		28-JAN-16	CAROLLO ENGINEERS, INC		60,450.75	05-FEB-16	60,450.75	Reconciled
364747		28-JAN-16	CITY OF NEWPORT BEACH		1,223.87	03-FEB-16	1,223.87	Reconciled
364748		28-JAN-16	CITY OF SANTA ANA		101.16	01-FEB-16	101.16	Reconciled
364749		28-JAN-16	COLONIAL LIFE & ACCIDENT INSURANCE CO.		1,139.60	03-FEB-16	1,139.60	Reconciled
364750		28-JAN-16	COMMERCE ENERGY INC		189.11	01-FEB-16	189.11	Reconciled

IRWD Ledger
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 24
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364751		28-JAN-16	CONSOLIDATED CONTRACTING SERV		449.13	09-FEB-16	449.13	Reconciled
364752		28-JAN-16	COUNTY OF RIVERSIDE		50.00			Negotiable
364753		28-JAN-16	COX COMMUNICATIONS, INC.		3,311.53	01-FEB-16	3,311.53	Reconciled
364754		28-JAN-16	CREDENTIAL CHECK CORPORATION		398.50	01-FEB-16	398.50	Reconciled
364755		28-JAN-16	CUMMINS PACIFIC, LLC		1,126.12	01-FEB-16	1,126.12	Reconciled
364756		28-JAN-16	D & G SIGNS		91.80	04-FEB-16	91.80	Reconciled
364757		28-JAN-16	DATASITE INC		1,132.00	08-FEB-16	1,132.00	Reconciled
364758		28-JAN-16	DEE JASPAR & ASSOCIATES, INC.		17,421.40	09-FEB-16	17,421.40	Reconciled
364759		28-JAN-16	DETECTION INSTRUMENTS CORP		1,323.94	09-FEB-16	1,323.94	Reconciled
364760		28-JAN-16	DILYTICS INC		43,520.00	04-FEB-16	43,520.00	Reconciled
364761		28-JAN-16	DIRECTV INC		81.92	01-FEB-16	81.92	Reconciled
364762		28-JAN-16	DONGBEOM, KIM		32.39			Negotiable
364763		28-JAN-16	DURANCEAU		1,687.50	05-FEB-16	1,687.50	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
364764	28-JAN-16	CONSULTING SERVICES, LLC			2,239.91	01-FEB-16	2,239.91	Reconciled
364765	28-JAN-16	ENDRESS AND HAUSER INC			11,262.50	04-FEB-16	11,262.50	Reconciled
364766	28-JAN-16	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.			5,329.40	03-FEB-16	5,329.40	Reconciled
364767	28-JAN-16	ENVIRONMENTAL SCIENCE ASSOCIATES EQUIPMENT DIRECT INC			375.77	01-FEB-16	375.77	Reconciled
364768	28-JAN-16	ESCORZA, JOSE			123.48	03-FEB-16	123.48	Reconciled
364769	28-JAN-16	FARRELL & ASSOCIATES			201.59	08-FEB-16	201.59	Reconciled
364770	28-JAN-16	FEDEX			362.10	03-FEB-16	362.10	Reconciled
364771	28-JAN-16	FIRE EXTINGUISHING SAFETY & SERVICE			913.68	03-FEB-16	913.68	Reconciled
364772	28-JAN-16	FISHER SCIENTIFIC COMPANY LLC			148.01	01-FEB-16	148.01	Reconciled
364773	28-JAN-16	FORESTRY SUPPLIERS INC			59.70	01-FEB-16	59.70	Reconciled
364774	28-JAN-16	GAEDICKE, TONY			116.70	02-FEB-16	116.70	Reconciled
364775	28-JAN-16	GEIGER BROS			517.11	01-FEB-16	517.11	Reconciled
364776	28-JAN-16	GRAINGER			3,422.60	01-FEB-16	3,422.60	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 25
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364777	28-JAN-16	HAAKER EQUIPMENT COMPANY			475.53	03-FEB-16	475.53	Reconciled
364778	28-JAN-16	HARRINGTON INDUSTRIAL PLASTICS LLC			1,238.00	02-FEB-16	1,238.00	Reconciled
364779	28-JAN-16	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY			132.24	01-FEB-16	132.24	Reconciled
364780	28-JAN-16	HARTFORD LIFE INSURANCE COMPANY			25,550.52	08-FEB-16	25,550.52	Reconciled
364781	28-JAN-16	HDR ENGINEERING INC			174,248.45	05-FEB-16	174,248.45	Reconciled
364782	28-JAN-16	HELPMATES STAFFING SERVICES			17,785.45	03-FEB-16	17,785.45	Reconciled
364783	28-JAN-16	HILL BROTHERS CHEMICAL COMPANY			8,934.10	01-FEB-16	8,934.10	Reconciled
364784	28-JAN-16	HILLCREST CONTRACTING			612.10			Negotiable
364785	28-JAN-16	HOME DEPOT USA INC			1,700.73	02-FEB-16	1,700.73	Reconciled
364786	28-JAN-16	HUMANA INSURANCE COMPANY			769.20	05-FEB-16	769.20	Reconciled
364787	28-JAN-16	IBM CORPORATION			3,821.00	01-FEB-16	3,821.00	Reconciled
364788	28-JAN-16	INDEPENDENT SPECIAL DISTRICT OF ORANGE COUNTY			200.00			Negotiable
364789	28-JAN-16	INDUSTRIAL ELECTRIC MACHINERY LLC			807.92	02-FEB-16	807.92	Reconciled
364790	28-JAN-16	INDUSTRIAL METAL SUPPLY CO			417.73	02-FEB-16	417.73	Reconciled
364791	28-JAN-16	IRVINE PIPE & SUPPLY INC			1,451.40	01-FEB-16	1,451.40	Reconciled
364792	28-JAN-16	IRWD-PETTY CASH CUSTODIAN			887.30	01-FEB-16	887.30	Reconciled
364793	28-JAN-16	JCI JONES CHEMICALS INC			4,404.40	01-FEB-16	4,404.40	Reconciled
364794	28-JAN-16	JOHN MICHAEL COVAS			195.80	03-FEB-16	195.80	Reconciled
364795	28-JAN-16	KOELLER NEBEKER CARLSON & HALUCK, LLP			3,020.00	01-FEB-16	3,020.00	Reconciled
364796	28-JAN-16	LA HABRA FENCE COMPANY INC			712.00	08-FEB-16	712.00	Reconciled
364797	28-JAN-16	LAGUNA BEACH COUNTY WATER DISTRICT			3,080.10	01-FEB-16	3,080.10	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 26
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364798	28-JAN-16	LINDE ELECTRONICS & SPECIALTY			1,812.59	02-FEB-16	1,812.59	Reconciled
364799	28-JAN-16	LINE-X OF SOUTH COAST			520.00	01-FEB-16	520.00	Reconciled

364800	28-JAN-16	LITTLEJOHN-REULAND CORPORATION	5,913.61	01-FEB-16	5,913.61	Reconciled
364801	28-JAN-16	LU'S LIGHTHOUSE, INC.	1,434.59	01-FEB-16	1,434.59	Reconciled
364802	28-JAN-16	MAUREEN SASSOON	1,974.00	01-FEB-16	1,974.00	Reconciled
364803	28-JAN-16	MBC APPLIED ENVIRONMENTAL SCIENCES	1,300.00	09-FEB-16	1,300.00	Reconciled
364804	28-JAN-16	MC MASTER CARR SUPPLY CO	2,113.92	01-FEB-16	2,113.92	Reconciled
364805	28-JAN-16	MESA INTERNATIONAL TECHNOLOGIES, INC.	378.00	02-FEB-16	378.00	Reconciled
364806	28-JAN-16	MICHAEL BAKER INTERNATIONAL, INC.	22,080.08	04-FEB-16	22,080.08	Reconciled
364807	28-JAN-16	MSC INDUSTRIAL SUPPLY CO	1,011.25	09-FEB-16	1,011.25	Reconciled
364808	28-JAN-16	MUTUAL PROPANE	85.63	01-FEB-16	85.63	Reconciled
364809	28-JAN-16	NAVIGANT CONSULTING, INC	9,931.43	01-FEB-16	9,931.43	Reconciled
364810	28-JAN-16	OCEAN BLUE ENVIRONMENTAL SERVICES INC	4,529.80	01-FEB-16	4,529.80	Reconciled
364811	28-JAN-16	OLIN CORPORATION	5,683.28	03-FEB-16	5,683.28	Reconciled
364812	28-JAN-16	ONESOURCE DISTRIBUTORS LLC	11,683.00	03-FEB-16	11,683.00	Reconciled
364813	28-JAN-16	ORANGE COUNTY AUTO PARTS CO	335.39	01-FEB-16	335.39	Reconciled
364814	28-JAN-16	PARKHOUSE TIRE INC	8,720.34	02-FEB-16	8,720.34	Reconciled
364815	28-JAN-16	PCL CONSTRUCTION	2,039.96	03-FEB-16	2,039.96	Reconciled
364816	28-JAN-16	PERKINELMER HEALTH SCIENCES INC	1,645.64	01-FEB-16	1,645.64	Reconciled
364817	28-JAN-16	PRAXAIR DISTRIBUTION INC	1,845.25	01-FEB-16	1,845.25	Reconciled
364818	28-JAN-16	PRE-PAID LEGAL SERVICES INC	1,598.80	03-FEB-16	1,598.80	Reconciled
364819	28-JAN-16	PRO MOBILE AUTO DETAILING	1,300.00	03-FEB-16	1,300.00	Reconciled
364820	28-JAN-16	PTI SAND & GRAVEL INC	916.19	02-FEB-16	916.19	Reconciled
364821	28-JAN-16	R&B AUTOMATION, INC.	8,238.12	08-FEB-16	8,238.12	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 27
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364822		28-JAN-16	RAM AIR ENGINEERING INC		1,030.00	02-FEB-16	1,030.00	Reconciled
364823		28-JAN-16	REACH EMPLOYEE ASSISTANCE INC		904.40	11-FEB-16	904.40	Reconciled
364824		28-JAN-16	REFRIGERATION SUPPLIES DISTRIBUTOR		69.29	02-FEB-16	69.29	Reconciled
364825		28-JAN-16	RESOLUTE CONTRACTORS, INC		259.31	16-FEB-16	259.31	Reconciled
364826		28-JAN-16	RINCON TRUCK CENTER INC.		395.00	01-FEB-16	395.00	Reconciled
364827		28-JAN-16	ROBERT HALF INTERNATIONAL, INC.		1,633.50	01-FEB-16	1,633.50	Reconciled
364828		28-JAN-16	SABOKPEY, SEDIGHE		228.53	02-FEB-16	228.53	Reconciled
364829		28-JAN-16	SANTA ANA BLUE PRINT		2,447.75	04-FEB-16	2,447.75	Reconciled
364830		28-JAN-16	SANTA MARGARITA FORD		4,634.44	01-FEB-16	4,634.44	Reconciled
364831		28-JAN-16	SHAMROCK SUPPLY CO INC		2,252.33	01-FEB-16	2,252.33	Reconciled
364832		28-JAN-16	SIEMENS DEMAG DELAVAL TURBOMACHINERY, INC.		62,899.20	16-FEB-16	62,899.20	Reconciled
364833		28-JAN-16	SIGMA-ALDRICH INC		1,428.34	01-FEB-16	1,428.34	Reconciled
364834		28-JAN-16	SITMATIC		482.89	01-FEB-16	482.89	Reconciled
364835		28-JAN-16	SOFTWAREONE INC		6,648.50	01-FEB-16	6,648.50	Reconciled
364836		28-JAN-16	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		1,709.16	05-FEB-16	1,709.16	Reconciled
364837		28-JAN-16	SOUTH COAST ANSWERING SERVICE		530.13	01-FEB-16	530.13	Reconciled
364838		28-JAN-16	SOUTHERN CALIFORNIA EDISON COMPANY		500.00	02-FEB-16	500.00	Reconciled
364839		28-JAN-16	SOUTHERN CALIFORNIA EDISON COMPANY		21,291.75	01-FEB-16	21,291.75	Reconciled
364840		28-JAN-16	STANDARD REGISTER, INC.		2,571.59	01-FEB-16	2,571.59	Reconciled
364841		28-JAN-16	STANTEC CONSULTING		2,467.00	01-FEB-16	2,467.00	Reconciled

364842 SERVICES INC. 41,199.56 03-FEB-16 41,199.56 Reconciled
 364843 28-JAN-16 TEKDRUALICS 1,726.23 01-FEB-16 1,726.23 Reconciled
 28-JAN-16 THE IRVINE COMPANY LLC

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 28
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
364844		28-JAN-16	THOMPSON		958.23	05-FEB-16	958.23	Reconciled
364845		28-JAN-16	INDUSTRIAL SUPPLY		1,402.19			Negotiable
364846		28-JAN-16	TOLL BROS INC		884.46	02-FEB-16	884.46	Reconciled
364847		28-JAN-16	TRIPAC MARKETING INC		2,215.00	01-FEB-16	2,215.00	Reconciled
364848		28-JAN-16	TROPICAL PLAZA NURSERY INC		3,452.51	02-FEB-16	3,452.51	Reconciled
364849		28-JAN-16	TRUCPARCO		85.00	01-FEB-16	85.00	Reconciled
364850		28-JAN-16	U.S. HEALTHWORKS MEDICAL GROUP, P.C.		2,699.40	04-FEB-16	2,699.40	Reconciled
364851		28-JAN-16	UNITED HEALTHCARE INSURANCE COMPANY		81,591.12	09-FEB-16	81,591.12	Reconciled
364852		28-JAN-16	US BANK NAT'L ASSOCIATION NORTH DAKOTA		1,702.45	01-FEB-16	1,702.45	Reconciled
364853		28-JAN-16	VCS ENVIRONMENTAL		313.55	17-FEB-16	313.55	Reconciled
364854		28-JAN-16	VERIZON CALIFORNIA INC		1,345.28	01-FEB-16	1,345.28	Reconciled
364855		28-JAN-16	VULCAN MATERIALS COMPANY		1,231.56	01-FEB-16	1,231.56	Reconciled
364856		28-JAN-16	VWR INTERNATIONAL, LLC		856.14	12-FEB-16	856.14	Reconciled
364857		28-JAN-16	WALNUT SQ HOA		3,804.76	02-FEB-16	3,804.76	Reconciled
364858		28-JAN-16	WALTERS WHOLESALE ELECTRIC		352.64	05-FEB-16	352.64	Reconciled
364859		28-JAN-16	WAX DEPOT		925.56	01-FEB-16	925.56	Reconciled
364860		28-JAN-16	WAXIE'S ENTERPRISES, INC		40.00	03-FEB-16	40.00	Reconciled
364861		28-JAN-16	WECK LABORATORIES INC		19.16	17-FEB-16	19.16	Reconciled
364862		28-JAN-16	YANG, LI		7,936.25	01-FEB-16	7,936.25	Reconciled
364863		28-JAN-16	YORK INSURANCE SERVICES GROUP INC - CA		1,156.06	02-FEB-16	1,156.06	Reconciled
364864		28-JAN-16	YSI, INC		18.87	01-FEB-16	18.87	Reconciled
364864		28-JAN-16	ZETA, TRINIDAD					
Payment Document Subtotal:					9,940,719.70		9,791,639.10	

Payment Document : IRWD Wire

11326 07-JAN-16 EMPLOYEE BENEFIT PAY 7,328.27 Negotiable
 SPECIALIST, INC

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 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
11327		08-JAN-16	CALPERS	SACRAMENTO	2,500.00			Negotiable
11328		08-JAN-16	CALPERS	SACRAMENTO	24,643.20			Negotiable
11329		08-JAN-16	INTERNAL REVENUE SERVICE	FRESNO	25.61			Negotiable
11330		08-JAN-16	FRANCHISE TAX BOARD	SACRAMENTO	1.20			Negotiable
11331		08-JAN-16	INTERNAL REVENUE SERVICE	FRESNO	163,064.03			Negotiable
11332		08-JAN-16	FRANCHISE TAX BOARD	SACRAMENTO	42,723.73			Negotiable
11333		08-JAN-16	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	500.77			Negotiable
11334		08-JAN-16	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	2,246.76			Negotiable
11335		08-JAN-16	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	9,793.25			Negotiable
11336		08-JAN-16	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	DENVER	105,489.06			Negotiable
11337		08-JAN-16	EMPLOYMENT DEVELOPMENT	W SACRAMENTO	10,474.17			Negotiable

11338	12-JAN-16	DEPARTMENT YORK INSURANCE PAY SERVICES GROUP INC - CA		2,275.10	Negotiable
11339	13-JAN-16	YORK INSURANCE PAY SERVICES GROUP INC - CA		6,978.68	Negotiable
11340	13-JAN-16	YORK INSURANCE PAY SERVICES GROUP INC - CA		5,599.23	Negotiable
11341	19-JAN-16	U.S. BANK NATIONALST. LOUIS ASSOCIATION		9,324.07	Negotiable
11342	19-JAN-16	CALPERS SACRAMENTO		85,300.66	Negotiable
11343	20-JAN-16	PCL CONSTRUCTION, ACCT INC. 6971821722		1,200,950.10	Negotiable
11344	20-JAN-16	PCL CONSTRUCTION, ESR INC. 141511.1		133,438.90	Negotiable
11345	20-JAN-16	MERRILL LYNCH CAPITAL SERVICES, INC	CHARLOTTE	350,000.00	Negotiable

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
11346		20-JAN-16	MERRILL LYNCH CAPITAL SERVICES, INC	CHARLOTTE	580,000.00			Negotiable
11347		20-JAN-16	MUNICIPAL WATER DISTRICT OF ORANGEVALLEY COUNTY	FOUNTAIN	752,359.35			Negotiable
11348		20-JAN-16	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	3,296.74			Negotiable
11349		20-JAN-16	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	2,100,120.60			Negotiable
11350		20-JAN-16	U.S. BANK NATIONALPAY ASSOCIATION		552.11			Negotiable
11351		20-JAN-16	BANK OF AMERICA SAN FRANCISCO		552.11			Negotiable
11352		20-JAN-16	YORK INSURANCE PAY SERVICES GROUP INC - CA		6,742.29			Negotiable
11353		20-JAN-16	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	67,231.40			Negotiable
11354		20-JAN-16	U.S. BANK NATIONALPAY ASSOCIATION		89,861.43			Negotiable
11355		20-JAN-16	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	546.58			Negotiable
11356		20-JAN-16	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	293.86			Negotiable
11357		20-JAN-16	BANK OF AMERICA SAN FRANCISCO		59,673.77			Negotiable
11358		22-JAN-16	GOKA, RAHUL PAY		26.78			Negotiable
11359		22-JAN-16	CALPERS SACRAMENTO 1		415,195.74			Negotiable
11360		22-JAN-16	INTERNAL REVENUE SERVICE	FRESNO	197,241.97			Negotiable
11361		22-JAN-16	FRANCHISE TAX BOARD	SACRAMENTO	53,185.21			Negotiable
11362		22-JAN-16	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	13,191.72			Negotiable
11363		22-JAN-16	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	500.77			Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 31
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
11364		22-JAN-16	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	2,406.91			Negotiable
11365		22-JAN-16	EMPLOYEE BENEFIT PAY SPECIALIST, INC		11,419.77			Negotiable
11366		22-JAN-16	GREAT-WEST LIFE & ANNUITY INSURANCE	DENVER	224,805.00			Negotiable

11367	25-JAN-16	COMPANY DION, ROBERT	FOUNTAIN VALLEY	28.22	Negotiable
11368	26-JAN-16	YORK INSURANCE SERVICES GROUP INC - CA	PAY	9,961.75	Negotiable
11369	27-JAN-16	MERRILL LYNCH CAPITAL SERVICES, INC	CHARLOTTE	560,000.00	Negotiable
11370	28-JAN-16	CALPERS	SACRAMENTO	88,093.66	Negotiable
11371	28-JAN-16	ORANGE COUNTY WATER DISTRICT	F.V.	8,090,201.70	Negotiable
11372	28-JAN-16	INTERNAL REVENUE SERVICE	FRESNO	8.23	Negotiable

Payment Document Subtotal: 15,490,154.46

Bank Account Subtotal : 25,430,874.16 9,791,639.10

Report Count : 743 Report Total: 25,430,874.16 9,791,639.10

Disbursements

*** End of Report ***

\$ 25,430,874.16 Disbursements
 <2,823,613.99> Voids
 \$ 22,607,260.17 Total Voids and Disbursements

Exhibit "E"

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-JAN-16 to 31-JAN-16


NAME	CHECK NO.	CHECK DATE	TRANSACTION	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Alberts, Dale	364327	14-Jan-16	130.00	Membership/Certification	Water Treatment Grade II certification renewal
Bonkowski, Leslie	364710	28-Jan-16	184.28	Other(Misc)	Meeting supplies
Borowski, Michael	364714	28-Jan-16	164.00	Membership/Certification	CWEA membership renewal
Cano, Marco	364711	28-Jan-16	118.78	Other(Misc)	Wireless case reimbursement
Chaney, Dave	364172	7-Jan-16	300.00	Membership/Certification	Wastewater Grade III certification renewal
Compton, Christine	364531	21-Jan-16	104.16	Other(Misc)	Mileage - ACWA Fall Conf., Indian Wells, CA 12/1-4, 2015
Hjorth, Charles	364326	14-Jan-16	150.66	Other(Misc)	Safety shoes allowance
Hjorth, Charles	364702	28-Jan-16	164.00	Membership/Certification	CWEA membership renewal
Jackson, Gina	364174	7-Jan-16	101.35	Other(Misc)	Meeting supplies
Kalinsky, Arseny	364171	7-Jan-16	110.00	Registration Fees	Drinking Water Operator Grade T3 CEU
Kalinsky, Arseny	364171	7-Jan-16	130.00	Registration Fees	Drinking Water Operator Grade T3 CEU
Kalinsky, Arseny	364171	7-Jan-16	120.00	Membership/Certification	Water Treatment certification renewal
Kallo, John	364707	28-Jan-16	100.00	Membership/Certification	Water Distribution Operator Grade 3 certification
LaMar, Steve	364543	21-Jan-16	233.54	Lodging	ACWA Fall Conf., Indian Wells, CA Dec. 1-4, 2015
LaMar, Steve	364543	21-Jan-16	233.54	Lodging	ACWA Fall Conf., Indian Wells, CA Dec. 1-4, 2015
LaMar, Steve	364543	21-Jan-16	121.90	Other(Misc)	Mileage - ACWA Fall Conf., Indian Wells, CA 12/1-4, 2015
Malloy, Steve	364179	7-Jan-16	272.00	Membership/Certification	WEF 2016 membership renewal
Malloy, Steve	364179	7-Jan-16	280.00	Membership/Certification	ASCE 2016 membership renewal
Matheis, Mary Aileen	364712	28-Jan-16	233.54	Lodging	ACWA Fall Conf., Indian Wells, CA Dec. 1-4, 2015
Matheis, Mary Aileen	364712	28-Jan-16	233.54	Lodging	ACWA Fall Conf., Indian Wells, CA Dec. 1-4, 2015
Matheis, Mary Aileen	364712	28-Jan-16	233.54	Lodging	ACWA Fall Conf., Indian Wells, CA Dec. 1-4, 2015
Matheis, Mary Aileen	364712	28-Jan-16	233.54	Lodging	ACWA Fall Conf., Indian Wells, CA Dec. 1-4, 2015
Matheis, Mary Aileen	364712	28-Jan-16	125.35	Other(Misc)	Mileage - ACWA Fall Conf., Indian Wells, CA 12/1-4, 2015
Matheis, Mary Aileen	364712	28-Jan-16	165.76	Lodging	CRWUA Annual Conf., Las Vegas, NV Dec. 16-18, 2015
Moore, Rory	364718	28-Jan-16	155.00	Membership/Certification	Water Distribution Grade V certification renewal
Moore, Rory	364718	28-Jan-16	105.00	Membership/Certification	Water Distribution T4 & Collections certification renewal
Nomura, Scott	364178	7-Jan-16	113.38	Other(Misc)	Safety shoes allowance
Ordonez, Bernardino	364701	28-Jan-16	125.00	Other(Misc)	Safety shoes allowance
Perez, Rudy	364542	21-Jan-16	164.00	Membership/Certification	CWEA membership renewal
Reinhart, Doug	364704	28-Jan-16	233.54	Lodging	ACWA Fall Conf., Indian Wells, CA Dec. 1-4, 2015
Reinhart, Doug	364704	28-Jan-16	233.54	Lodging	ACWA Fall Conf., Indian Wells, CA Dec. 1-4, 2015
Reinhart, Doug	364704	28-Jan-16	233.54	Lodging	ACWA Fall Conf., Indian Wells, CA Dec. 1-4, 2015
Reinhart, Doug	364704	28-Jan-16	129.95	Other(Misc)	Mileage - ACWA Fall Conf., Indian Wells, CA 12/1-4, 2015
Reinhart, Doug	364704	28-Jan-16	165.76	Lodging	CRWUA Annual Conf., Las Vegas, NV Dec. 16-18, 2015
Reynoso, Pio	364717	28-Jan-16	164.00	Membership/Certification	CWEA membership renewal
Schulze, Richard	364540	21-Jan-16	164.00	Membership/Certification	CWEA membership renewal
Silva, Jose	364708	28-Jan-16	164.00	Membership/Certification	CWEA membership renewal
Sosa, Ives	364706	28-Jan-16	200.00	Other(Misc)	Safety shoes allowance

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-JAN-16 to 31-JAN-16

NAME	CHECK NO.	CHECK DATE	TRANSACTION	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Soto, Frank	364705	28-Jan-16	195.96	Other(Misc)	Safety shoes allowance
Soto, Frank	364705	28-Jan-16	164.00	Membership/Certification	CWEA membership renewal
Swan, Peer	364716	28-Jan-16	555.96	Airfare	CRWUA Annual Conf., Las Vegas, NV Dec. 16-18, 2015
Swan, Peer	364716	28-Jan-16	221.76	Lodging	CRWUA Annual Conf., Las Vegas, NV Dec. 16-18, 2015
Torres, Richard	364177	7-Jan-16	200.00	Other(Misc)	Safety shoes allowance
Van Deusen, Scott	364329	14-Jan-16	164.00	Membership/Certification	CWEA membership renewal
Vazquez, Rafael	364539	21-Jan-16	170.00	Membership/Certification	Operator In Training Grade I certification
Withers, John	364535	21-Jan-16	233.54	Lodging	ACWA Fall Conf., Indian Wells, CA Dec. 1-4, 2015
Withers, John	364535	21-Jan-16	121.90	Other(Misc)	Mileage - ACWA Fall Conf., Indian Wells, CA 12/1-4, 2015
Yue, Andrew	364324	14-Jan-16	119.17	Other(Misc)	Safety shoes allowance
Total Amount:			\$ 8,740.48		

March 14, 2016
Prepared and
Submitted by: Jenny Roney
Approved by: Paul Cook 

CONSENT CALENDAR

REVISED PERSONNEL POLICIES AND PROCEDURES
(PERSONNEL POLICY NO. 6)

SUMMARY:

Staff has developed the Personnel Policies and Procedures to consistently address personnel-related issues at the Irvine Ranch Water District. Revisions to any of these policies must be approved by the IRWD Board of Directors from time to time to keep current with state and federal law, to adopt best practices in administering Human Resource policy and to correctly reflect practices adopted in conducting District business.

Staff recommends the Board:

- Approve the revisions to Policy No. 6 (Hiring and Termination) as detailed in Exhibit “A”, and
- Adopt a resolution establishing revised personnel policies and rescinding Resolution No. 2015-31 dated December 14, 2015 as shown in Exhibit “B”.

BACKGROUND:

A general clean-up and revision of Personnel Policy No. 6 (Hiring and Termination) was undertaken by staff and District counsel to ensure that it complies with current employment and labor laws and regulations. The significant changes include:

- Reference to the District’s use of technology in the job posting and application receipt process and removal of reference to a paper process;
- Post-offer screening of applicants for safety sensitive positions; and
- Inclusion of language relative to memorandum of understanding documents.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee on March 1, 2016.

RECOMMENDATION:

THAT BOARD ADOPT A RESOLUTION RESCINDING RESOLUTION NO. 2015-31 AND ESTABLISHING REVISED PERSONNEL POLICIES (FOR POLICY NO. 6).

LIST OF EXHIBITS:

Exhibit "A" – Personnel Policies and Procedures, Policy No. 6 – Hiring and Termination
Exhibit "B" – Resolution Rescinding Resolution No. 2015-31 and Establishing Revised Personnel Policies

EXHIBIT "A"

IRVINE RANCH WATER DISTRICT

PERSONNEL POLICIES AND PROCEDURES MANUAL

POLICY NO. 6 - HIRING AND TERMINATION

1. **Commitment to Compliance with Federal Laws Prohibiting Employment of Unauthorized Aliens**

The District is committed to full compliance with the federal immigration laws. These laws require that all individuals pass an employment verification procedure. This procedure has been established by law and requires that every individual provide satisfactory evidence of his/her identity and legal authority to work in the United States no later than three business days after he/she begins work. Accordingly, all new employees must go through this procedure.

2. **Hiring and Employment of Relatives or Individuals with a Residential Relationship/Conflicts of Interest**

~~Relatives of employees and individuals with whom employees reside are not eligible for employment with the District in any situation where potential problems of safety, security, supervision and/or morale exist. Further, the District desires to avoid situations in which actual or potential conflicts of interest may exist. To implement this objective, the District will attempt to avoid assignments for current employees who are related or cohabitate, where a that involve actual or potential conflicts of interest, or a negative impact on safety, security, supervision, and/or morale may occur, as well as working relationships involving relatives or individuals with close personal relationships that may potentially lead to complaints of favoritism, lack of objectivity, or employee morale and dissension problems that can result from such relationships.~~

~~In keeping with this policy, relatives of employees and individuals with whom employees reside are not eligible for employment with the District in any situation where potential problems of supervision, safety, security or morale exist or where personal relationships may create an actual or potential conflict of interest, cause disruption, or create a negative or unprofessional work environment.~~

~~For purposes of this policy, relatives include an employee's parent, including in-laws and stepparents, spouse, child, including stepchild, spouse, brother, or sister, including step siblings, brother in-law and sister in-law, or a stepparent, stepchild, stepbrother, or stepsister. Relatives also include any parent, child, brother or sister of an employee's spouse. As noted above, the policy is not limited to relatives and applies to other covered situations involving actual and potential conflicts of interest.~~

~~If two employees become subject to the restrictions of this policy while employed, after they are hired, the District reserves the right to determine whether or not an actual or potential conflict of interest or an affecteffect on supervision, safety, security, supervision and/or morale exists. The District also reserves the right to determine that other relationships that are not specifically covered by this policy represent actual or potential~~

POLICY NO. 6 – HIRING & TERMINATION

~~conflicts of interest as well.~~ In any case where the District determines, in its sole discretion, that a relationship between two employees may create an actual or potential conflict of interest, or ~~affect supervision~~, safety, security, supervision and/or morale, the District may take whatever action it determines to be appropriate to avoid the actual or potential conflict of interest. ~~Such action may include, but is not necessarily limited to, transfers, reassignments, or where it deems such action appropriate, disciplinary action up to and including possible termination.~~

Any questions regarding this conflict of interest policy should be directed to the Director of Human Resources. If an employee becomes involved in any such actual or potential conflict of interest, he or she must notify his/her supervisor immediately.

3. Posting Policies

The Human Resources Department of the District is responsible for posting employment opportunities available within the District. Employment opportunities ordinarily will be posted for a minimum of five days via electronic communication methods. ~~on various bulletin boards at the headquarters building and the Michelson Operations Center.~~ Employment opportunities are also communicated to all employees via e-mail and all employment opportunities open to the public are posted on the IRWD website (www.irwd.com). The District reserves the right to post in-house employment opportunities within sub-department work areas only.

Employees who are interested in posted positions are required to complete an electronic application form via the District's on-line applicant tracking system. ~~should complete a job bidding form (available in the Human Resources Department or at s:\Human Resources\Forms\Job Bid Form.doc) and submit it to the Human Resources Department for consideration prior to the posted closing date for the position.~~

~~However, employees who have been employed less than six months with the District may not qualify for a transfer or promotion to another position if the change is not in the best interest of the District.~~

4. Eligibility for Promotions and, Transfers and Reassignments

The District encourages employees to apply for promotions to positions for which they are qualified.

Promotional Employment opportunities are posted via the District's on-line applicant tracking system and announced via email and the District's intranet system. ~~on various bulletin boards at the headquarters building and the Michelson Operations Center.~~ Employment opportunities are also communicated to all employees via e-mail.

Employees who have been employed by the District for at least six months and are interested in posted positions are required to complete an electronic application form via the District's on-line applicant tracking system ~~should complete a job bidding form (available in the Human Resources Department or at s:\Human Resources\Forms\Job Bid Form.doc) and submit it to the Human Resources Department for consideration prior to the posted closing date, of the position.~~ Promotions and transfers shall be based on the

POLICY NO. 6 – HIRING & TERMINATION

ability, qualifications, and potential of the candidates for the positions. Employees are not automatically entitled to a promotion or transfer for which they apply.

Employees who have been employed with the District less than six months may not qualify for a transfer or promotion to another position if the change is not in the best interest of the District.

~~The District desires to avoid situations in which actual or potential conflicts of interest may exist. To implement this objective, the District will attempt to avoid assignments that involve actual or potential conflicts of interest, as well as working relationships involving relatives or individuals with close personal relationships that may potentially lead to complaints of favoritism, lack of objectivity, or employee morale and dissension problems that can result from such relationships.~~

5. Initiation of Hiring Process

The ~~Human Resources Department of the~~ District is dedicated to employing the most qualified individuals for available positions. Executive Directors, Directors and Department Managers must keep the Human Resources Department informed of their recruiting and ~~manpower~~staffing needs. Planning is essential to recruiting, screening and selection of ~~a~~ candidates within the time frame required.

A. Budgeted Position

The Department is responsible for determining that a position ~~Manager is responsible for determining that an additional employee~~ has been approved in the budget. A job description must be developed and/or reviewed before recruitment can begin. ~~and that a job description exists for the position.~~

B. Position Categories

In an effort to determine eligibility for various benefits, the following position categories have been established:

Regular Full-Time Employees: ~~Defined as those employees who are H~~ired to work on a regular basis for 40 hours/~~a~~ week. ~~They are E~~ligible for all benefits.

Regular Part-Time Employees: ~~Defined as those employees who are H~~ired to work on a regular basis for less than 40 hours/~~a~~ week. ~~They are E~~ligible for all benefits on a pro-rated basis. ~~vacation and holiday pay, as well as workers' compensation and PERS benefits. Some regular part-time employees may also qualify for medical benefits.~~

Full-Time Temporary Employees: ~~Defined as those employees who are H~~ired to work for a limited duration on either a full time (-for 40 hours/-a week) or part-time (less than 40 hours/week) basis. ~~They are O~~nly eligible for holiday pay, workers' compensation benefits and other benefits as defined in Policy No. 7 – Temporary Employees. ~~and the Non-Regular Employee Retirement Program. Some full-time temporary employees may also qualify for medical benefits. (See Policy No. 7 – Temporary Employees for specific information).~~

POLICY NO. 6 – HIRING & TERMINATION

~~**Part-Time Temporary Employees:** Defined as those employees who are hired to work for a limited duration for less than 40 hours a week. They are only eligible for pro-rated holiday pay, workers' compensation and the Non-Regular Employee Retirement Program. Some part-time temporary employees may also qualify for medical benefits. (See Policy No. 7—Temporary Employees for specific information).~~

~~**Student Intern:** Defined as those employees who are Actively enrolled as a student in an institution of higher learning at either the undergraduate or graduate level. Student Interns work less than 20 hours/week. currently enrolled in a minimum of 12 units of school study. They are eligible for pro-rated holiday pay and workers' compensation benefits.~~

~~**Contract Labor Status:** A person hired under this status is not an employee of the District, but is an independent contractor. To qualify for contract labor status, a person must be able to successfully complete an IRS Department of the Treasury SS-8 form. They must also show proof of workers' compensation coverage.~~

C. Personnel Requisition Form

In order to initiate the hiring process, a Personnel Requisition Form must be completed. ~~(available in Human Resources Department and at s:\Human Resources\Forms\Personnel-Req.doc).~~ Once the form has been completed, reviewed and signed by department management, the requisition is routed to the Human Resources Department for processing.

~~The Personnel Requisition is used to initiate necessary Employment Opportunity postings, newspaper advertisements, and to update the District's employee turnover report to the Board of Directors.~~

6. Selection, Interview and Hiring Process

A. Selection

~~Applications are reviewed by a Human Resources representative to determine those that meet the minimum qualifications of the job. The applications of all candidates who meet the minimum qualifications apply for an open position at the District will be forwarded to the appropriate department supervisor by the Human Resources Department via the District's electronic applicant tracking system. Each department is responsible to provide information for screening all applications for the experience, education and qualifications required for the job. All applications are returned to the Human Resources Department regarding, with information indicating those applicants with whom the department wishes to invite for arrange an interview. Applications are reviewed by a Human Resources representative to ensure all applicants selected meet the minimum qualifications of the job.~~

POLICY NO. 6 – HIRING & TERMINATION

~~These applicants are contacted to arrange a personal interview with the appropriate department and a Human Resources Representative.~~

In-house applicants (employees of the District) may also apply-bid for the open positions via the District's applicant tracking system (see Sections 3. and 4. of this policy) by completing a Job Bidding Form. ~~These forms are submitted through the Human Resources Department, and forwarded to the applicable department.~~ All internal-house applicants are given the same consideration as external-all other applicants, based on their qualifications and the requirements of the job.

B. Interview

An interview will be conducted with the selected applicants by a department representative, s including the direct supervisor of the open position and a representative of the Human Resources Department and at least one other individual from within the District and/or from an external agency.

The department representative is s-are responsible to work with Human Resources to-for-preparing a list of job-related questions that will be asked during the interview. Each applicant will be asked the same general questions to ensure a fair and accurate evaluation of all applicants interviewed. , in an effort to fairly evaluate their qualifications. Questions are evaluated by each interviewer based on the applicant's knowledge and experience. A value may be assigned to each question.

C. Hiring Process

Once a selection has been made from the applicants interviewed for an open position at the District, the process continues with the top candidate(s).

1. Background Investigations

A thorough background investigation will be conducted for the top candidate(s). This investigation may include a Consumer Credit Report and/or Investigative Consumer Report as well as contacting of professional references. Applicant(s) will be notified of this requirement, and will be required to provide background information and authorization to conduct the investigation and contact references. These investigations will be conducted for all position categories.

2. Department/District Approval to Hire **(Worksheet)**

A New Hire Change of Status Form-Worksheet (available in the Human Resources Department or at s:\Human Resources\forms\COS Worksheets.xls) must be completed and approved through the Executive Director signed by the Department Director of the hiring department prior to an offer being extended to any applicant. All completed Change of Status Forms -worksheets are forwarded to the Human Resources

POLICY NO. 6 – HIRING & TERMINATION

Department, ~~along with the original application and any evaluation paperwork.~~ The Director of Human Resources is responsible for approving all offers of employment. In some instances, the General Manger's approval may also be required.

3. Offer of Employment

Offers of employment are generally made verbally by an authorized representative of the Human Resources Department. Under no circumstances are offers of employment to be made by any other representative of the District without the consent and knowledge of the Director of Human Resources, and in the event such offers are made without such consent or knowledge, they are not binding.

After an offer of employment is made, employment is contingent upon successfully completing the following criteria.

a) Physical Examination

The final candidate(s) for the open position will be required to complete a physical examination to assess the candidate's ability to perform the essential functions of the job. The cost for the applicant's physical will be paid by the District. The candidates must successfully complete the physical examination to be considered for employment.

b) Drug/Alcohol Screening – Safety Sensitive Positions

The District is committed to providing a safe, efficient and productive work place. To achieve this objective, the District desires to prevent drug or alcohol use from adversely affecting the work place. Accordingly, candidates for safety sensitive positions with the District are required to satisfactorily take and pass a drug and alcohol screening examination prior to beginning employment. The screening will be performed at the District's expense.

c) Verification of Lawful Work Status Under Immigration Rules

The District is required by the federal immigration laws to verify the identity and legal ability to work of all individuals before they can be hired. In keeping with this obligation, documentation that shows each person's identity and legal authority to work must be inspected. Each employee must also attest to his/her legal authority to work by completing an I-9 Form (available in the Human Resources Department) provided by the federal government. This verification must be completed within three business days after an individual is hired. All offers of employment and continued employment for positions in the United States are contingent on

POLICY NO. 6 – HIRING & TERMINATION

furnishing satisfactory evidence of identity and legal authority to work in the United States.

d) **Work History Verification**

A work history investigation will be conducted by telephone inquiry or by mail by the Human Resources Department or the investigative firm conducting the background check for all applicants being considered for employment. ~~If it is not possible to obtain work history information by telephone, a letter of inquiry will be used.~~ Information concerning the last three positions held or 10 years will generally be obtained. Falsification of work history will generally be grounds for immediate termination or withdrawal of an employment offer.

e) **Driving Record**

Many positions require the use of a District vehicle and DMV records must meet the established standards of the District's ~~Insurance Underwriters~~. Successful candidates for employment by the District ~~may be are~~ required to provide their driver's license number to the Human Resources Department so that a Motor Vehicle Report can be obtained.

f) **Educational History**

Educational history information based on the educational requirements of the job will be verified for all candidates being considered for employment by the Human Resources Department or the investigative firm conducting the background checks. ~~The District's Human Resources Department will request applicable transcripts from high school and college institutions attended by the new employee, based on the educational requirements of the job. Verbal verification may be received by the investigative firm conducting the background check.~~ Falsification of school history will generally be grounds for immediate termination or withdrawal of the employment offer.

D. **Probationary Period**

1. **Conditions of Probation**

All new employees will be subject to a probationary period of 12 months. The probationary period is a period of time during which a new employee's work is closely monitored in order to determine if the employee is suited for the position for which he or she was hired. An employee may be released from District service at any time during the probationary period. Unsatisfactory performance at any time during the

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~~probationary period may be a basis for disciplinary action up to and including termination.~~

~~Employees who are promoted after the completion of their initial probationary period will be serve a 3 month probationary period in the new position.~~

2. ~~Conditions of Probation~~Probationary Performance Evaluations

~~A Probationary Employee Performance Evaluation Review will be completed by the employee's direct supervisor and discussed with the employee after completion of 4 months of employment and again after 8 months of employment. A first annual evaluation will be completed at 12 months of employment. A rating of "3" (Meets Requirements) or better on the first annual review will indicate a satisfactory completion of the 12 month probationary period requirement and attainment of Regular employment status. In the case of an unsatisfactory Probationary Employee Review, the supervisor will determine if the probationary employee will be discharged without recourse or allowed to continue as a probationary employee. If permitted to continue as a probationary employee, the employee will be provided an opportunity to rectify any unsatisfactory areas of performance~~

3. Extension of Probation

a) **Leaves of Absence**

The probationary period will be extended when a probationary employee is on a leave of absence of any kind for more than 14 consecutive calendar days during the probationary period. The probationary period will be extended for the length of time the probationary employee is on a leave of absence.

b) **Extension for Performance Reasons**

Probationary periods may be extended for up to 6 months for performance reasons. The reasons for the extension must be documented on a Probationary Employee Evaluation and approved by the General Manager or their designee ~~Department Director~~ and the Director of Human Resources. The total probationary period may not exceed 18 months, excluding periods of leave as described in Section 6.D.3.a) of this policy above.

c) **Notice of Extension**

Probationary employees must be notified in writing if their probationary period will be extended for performance reasons or due to a leave of absence. A probationary employee whose probation has been extended will be reviewed at the conclusion of

POLICY NO. 6 – HIRING & TERMINATION

the extended probationary period and will be notified if they have successfully completed the probationary period.

4. **Completion of Probation**

~~If the probationary period has not been extended as described above, employees receiving a rating of “3” (Meets Requirements) or better on their first annual review will have satisfied the initial 12-month probationary period requirements and will be taken off probation. Employees receiving less than a “3” rating (a “3” or lower) on their first annual review will be subject to disciplinary action including, but not limited to, extension of probation, demotion, suspension or termination.~~

~~A probationary employee whose probation has been extended will be reviewed at the conclusion of the extended probationary period and will be notified if they have successfully completed the probationary period. An employee may be terminated prior to the end of the extended probationary period if performance deteriorates or does not improve.~~

Successful completion of the probationary period is not a guarantee of continued employment. Employment with the District is on an at-will basis. Both the employee and the District have the right to terminate the employment at any time, with or without cause or notice. This at-will basis may not be modified, abrogated or altered in any way, except: (1) in the case of a represented employee, in a memorandum of understanding, collective bargaining agreement or other memorialization of agreement between the District and the exclusive representative of the employee; or (2) in the case of an employee without a collective bargaining representative, in a written agreement signed by the General Manager and ratified by the Board of Directors.

5. **Change of Position During Probation**

~~A probationary employee is not eligible to bid for open positions during the first 6 months of employment. Exceptions may be granted at the discretion of the Department Director and the Director of Human Resources. If a probationary employee changes positions during the probationary period, as provided for in Section 4 of this policy, the probationary period for the new position shall be the greater of the remainder of the ~~initial~~ ~~current~~ probationary period or the three month probationary period applied to all position changes (see Section 6.D.1. of this policy).~~

E. Orientation Procedures

The District has established an orientation program to help new employees make a satisfactory adjustment to their new work environment. The Human Resources Department will arrange and conduct an ~~new hire~~ orientation ~~by the last week of each month~~ for all newly hired employees, ~~hired during the current month.~~ The

POLICY NO. 6 – HIRING & TERMINATION

~~orientation~~ presentation will include information on the District's policies and procedures, employee benefit information and enrollment, as well as general new employee information. ~~Department Heads and/or immediate supervisors are asked to arrange the new employee's work schedule to permit them to attend the program on District-paid time.~~

7. Termination

Subject to Paragraph 7.D below with respect to employees who are represented by an association or other exclusive collective bargaining representative, the following policies will apply to termination of employment:

A. General Policy

The relationship between the employee and the employer is for an unspecified term and is considered employment at will. Consequently, the employment relationship with any employee can be terminated at will, either by the employee or the District, with or without cause or advance notice. This at will policy is intended to be the final expression of the District's understanding regarding the terms under which employment may be terminated, and it may not be modified, limited, augmented or changed in any way except in writing signed by the General Manager of the District and the employee, or, with respect to represented employees, as detailed in Paragraph 7.D below.

The District maintains a ~~guideline for~~ progressive discipline process that may be used to help employees improve their inadequate work performance or to correct problems. ~~These guidelines are outlined in The Disciplinary Process Guidelines for Managers and Supervisors (available in the Human Resources Department and at s:\Human Resources\Procedures\Disciplinary Process.doc). The implementation of this progressive discipline process se guidelines does not change the at will nature of the employment relationship. Further, the guidelines do not provide an exhaustive list of offenses that may lead to discipline or termination, nor are they intended to be binding or restrictive of the District's ability to impose discipline.~~ The District retains the right to discipline, demote, transfer or take other employment action in its sole discretion, with or without cause or notice.

When an employee leaves employment for any reason, a two-week notice is requested. Although such a notice is not required, an employee who is eligible to receive sick leave benefits upon termination will receive such benefits only if two weeks notice is received.

The Human Resources Department ~~may will~~ schedule an exit interview with each employee who leaves the District, and/or provide an exit interview survey form for the employee to complete. ~~regardless of the reason. This interview allows employees to communicate their views on their work with the District. It also provides the employee an opportunity to discuss issues concerning insurance and other benefits. At the time of the exit interview, eEmployees who are separating from employment are to -are expected to return all District-furnished uniforms, tools, and equipment, such as I.D. cards, keys, vehicles, manuals, credit/fuel cards~~

POLICY NO. 6 – HIRING & TERMINATION

and any other District property in their possession or control to their immediate supervisor by the last day worked. ~~Arrangements for clearing any outstanding debts with the District and to receive final pay are also made at this time.~~ Employees are reminded that any work (i.e.; reports, correspondence, software, etc.) or work in progress completed by the employee while employed by the District such as reports, correspondence, software, etc. is the property of the District and should be turned over to the employee's supervisor upon termination. ~~Once all items are returned, the employee's final paycheck will be released.~~

B. Voluntary Termination of Employment

Each Department Head or Supervisor will immediately inform the Human Resources Department of a voluntary termination and will forward the employee's letter of resignation. If no letter of resignation is provided, the Supervisor will request a Voluntary Resignation Form be completed by the employee. ~~from the Human Resources Department (also available at s:\Human Resources\FORMS\Voluntary Resignation.doc) for the employee to complete.~~

Once notification of a termination has been received, the Human Resources Department will generate a termination Change of Status form using the on-line Change of Status system and will route it to the appropriate Executive Director, Director, Manager-Department Head or Supervisor for on-line approval. ~~The approval process must be completed at least one week prior to the termination date to allow for the preparation of the employee's final paycheck. This check will be presented to the employee on his last day of work.~~

C. Involuntary Termination of Employment

~~In all instances where employment of an employee is involuntarily terminated, The Human Resources Department must be involved in all instances of involuntary termination of employment in advance of the termination action. will be notified prior to the actual termination decision in order to review the grounds for termination and to grant approval for such action.~~

~~The Human Resources Department will generate a termination Change of Status form using the on-line Change of Status system and will route it to the appropriate Department Head or Supervisor for on-line approval.~~

~~The An employee may be placed on a paid administrative leave disciplinary suspension for a period of ten (10) working days without pay if necessary while a disciplinary investigation is being conducted. The Human Resources Department or the supervisor of the employee will, in such cases, ordinarily send the employee will be notified a letter in writing describing of the reasons for and/or the events leading to the District's decision for this action. to terminate the employment of the employee. The employee will be given an opportunity to meet with his/her Supervisor and the appropriate next level supervisor which may include the Director of the department, the General Manager and/or the Director of Human Resources to discuss the decision to terminate employment.~~

POLICY NO. 6 – HIRING & TERMINATION

~~The next level supervisor, Director of the department, General Manager and/or Director of Human Resources will, after hearing both sides of the issue, make a determination that termination of employment is or is not an appropriate course of action and will inform the Human Resources Department of the decision.~~

~~If a decision is made to terminate the employment of the employee, the Human Resources Department will request that the Department Head or Supervisor draft a letter to the employee, again outlining the reasons for and/or the events leading to this action and informing the employee of the effective date of termination. Once approved by the Human Resources Department, the letter will be presented to the employee.~~

As with a voluntary termination, the employee is required to return all District property including keys, vehicles, uniforms, I.D. card, tools, equipment, District manuals, software, reports, and/or correspondence.

~~The final paycheck will be presented at the conclusion of the employee's last day of employment. The value of any District property not returned will be deducted from the employee's final paycheck.~~

D. Represented Employees

In the case of employees represented by an association or other exclusive collective bargaining representative, the grounds for discipline and termination, as well as grievance, appeal and dispute resolution rights relating to any such discipline or termination, may be set forth in a memorandum of understanding or other written agreement between the District and the collective bargaining representative. To the extent that such agreement adds to, modifies, or differs in any way from this policy, the agreement will govern.

Adopted by IRWD Board of Directors on:

EXHIBIT "B"

RESOLUTION NO. 2016 -

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT,
RESCINDING RESOLUTION NO. 2015-31 AND
ESTABLISHING REVISED PERSONNEL POLICIES
(FOR POLICY NO. 6)

WHEREAS, the Irvine Ranch Water District (IRWD) is a California Water District formed pursuant to Division 13 of the Water Code of the State of California; and

WHEREAS, Section 34900 of said Code provides that the Board of Directors shall employ and appoint such agents, officers and employees as may be required and prescribe their duties and fix their salaries; and

WHEREAS, by adoption of Resolution No. 2015-31 dated December 14, 2015, the Board established revised Personnel Policies; and

WHEREAS, the Board of Directors of Irvine Ranch Water District deem it advisable and in the best interest of said District to revise Personnel Policies as follows:

Policy No. 6 – Hiring and Termination has been revised to amend language and reference to currently applicable state and federal employment laws and regulations.

NOW, THEREFORE, the Board of Directors of Irvine Ranch Water District hereby resolve, determine and order as follows:

Section 1. That Resolution No. 2015-31 be and hereby is rescinded in its entirety.

Section 2. That the Finance and Personnel Committee be authorized to approve exceptions to the District's Personnel Policies and procedures as long as those exceptions do not violate the general intent of the policy and/or procedure and are made in the best interest of the overall operations of the District. Any changes made by Committee are to be reported to the Board of Directors.

Section 3. That the Personnel Policies for Irvine Ranch Water District be, and hereby are, approved and adopted as more specifically set forth in Exhibit "A" of this Resolution, attached hereto and by this reference made a part hereof.

ADOPTED, SIGNED AND APPROVED this 14th day of March, 2016.

President, IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

District Secretary, IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

APPROVED AS TO FORM;
BOWIE, ARNESON, WILES AND GIANNONE
Legal Counsel - IRWD

By _____

March 14, 2016

Prepared by: Tanja Fournier

Submitted by: Robert Jacobson / Cheryl Clary

Approved by: Paul A. Cook 

CONSENT CALENDAR

COMMERCIAL REAL ESTATE BROKER UPDATE

SUMMARY:

Based on recent firm changes by the District's commercial brokers, staff recommends the Board approve a new listing agreement with Colliers International (Mike Hartel) to continue commercial leasing services related to the 230 Commerce and the Waterworks Business Park properties, and to enter into a joint listing agreement with Colliers International and Cushman & Wakefield for initial leasing services related to the future Sand Canyon Professional Center office property.

BACKGROUND:

The District's commercial real estate brokers responsible for leasing its current office investment properties have each moved from Voit Commercial to separate firms, the most recent change occurring in February. Mike Hartel moved to Colliers International in February, and Kevin Turner moved to Cushman & Wakefield in August 2015. Each of the firms has an excellent reputation for providing a broad range of commercial brokerage services in Orange County. The District's current listing agreement with Voit Commercial has expired and is on a month-to-month basis with no specific broker representation.

While the District's three office properties are currently 100% leased, there will be significant leasing activity in mid to late 2016. Expected activity includes the vacancy of four suites totaling 19,000 square feet at the 230 Commerce property, and the expected vacancy of two units totaling approximately 8,000 square feet at the Waterworks Business Park property. The earliest lease expiration to occur at the Sand Canyon medical office property will be in April 2022.

Staff believes it would be more efficient for one brokerage firm to represent the District with its ongoing office leasing requirements. Mr. Hartel's recent move to Colliers included the Voit administrative and marketing team familiar with the District's properties, leasing documentation and tenant requirements. Staff has worked with this team extensively and they have provided significant support, especially during periods of increased activity.

Staff recommends the District enter into a new listing agreement with Mike Hartel and Colliers International for a 12-month period for ongoing leasing activities related to the 230 Commerce and Waterworks Business Park properties. The commission rate for the proposed new listing agreement will be reduced from 7.00% to 6.00% for the 230 Commerce property and from 6.75% to 6.00% for the Waterworks Way Business Park property.

Staff also recommends the District enter into a joint listing agreement with Colliers and Cushman & Wakefield for a six-month period for services related to the initial lease-up of the Sand Canyon Business Park's future 70,000 square foot office development. The joint listing agreement would include the same terms and commission structure currently in place with Voit.

FISCAL IMPACTS:

The lease commission for the 230 Commerce office property is 6.0% of the lease commitment for years one through five, and for a longer lease, additional years are at a rate of 3.5%. For the Waterworks Business Park, the commission is 6.00% of the lease commitment for years one through five, and for a longer lease, additional years are at a rate of 3.50%.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was reviewed by the Asset Management Committee on February 18, 2016.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE STAFF TO EXECUTE A LISTING AGREEMENT WITH COLLIERS INTERNATIONAL FOR A 12-MONTH PERIOD FOR COMMERCIAL LEASING SERVICES RELATED TO THE 230 COMMERCE AND THE WATERWORKS BUSINESS PARK OFFICE PROPERTIES, AND EXECUTE A JOINT LISTING AGREEMENT WITH COLLIERS INTERNATIONAL AND CUSHMAN & WAKEFIELD FOR A SIX-MONTH PERIOD FOR LEASING SERVICES RELATED TO THE FUTURE SAND CANYON PROFESSIONAL CENTER OFFICE PROPERTY.

LIST OF EXHIBITS:

None.

March 14, 2016

Prepared by: Tanja Fournier

Submitted by: Rob Jacobson/Cheryl Clary

Approved by: Paul Cook

ACTION CALENDAR

EMPLOYEE LOAN PROGRAM DEFERRED COMPENSATION 457 PLAN

SUMMARY:

Based on feedback received from the District's 2015 deferred compensation employee survey, and inquiries from quarterly deferred compensation meetings and employee association meetings, employees have requested an option for loans to be made available from their deferred compensation accounts. Staff has researched the pros and cons of offering a loan program which included information provided by the District's plan provider, Empower Retirement, as well as feedback from a survey of other agencies regarding loan options available with their respective retirement plans. Staff recommends that the Board approve an employee loan program from the 457 Deferred Compensation Plan (457 Plan) under the parameters provided below. This approval would extend to the 457 Plan only (employee contributions), and would not be available from the 401(a) Plan (District contributions).

BACKGROUND:

Based on feedback received from the District's deferred compensation employee survey administered in 2015, as well as inquiries at quarterly deferred compensation meetings and from employee association meetings, a number of District employees have requested that a loan option be made available from their deferred compensation accounts. As a result, staff researched the benefits and implications of retirement plan loan programs. Information was requested from the District's plan sponsor Empower Retirement, and staff utilized the District's membership with National Association of Government Defined Contribution Administrators (NAGDA) to survey other agencies regarding their experience with offering loan programs from employee retirement accounts. A list of benefits and potential negative implications related to loans from the 457 Plan is attached as Exhibit "A".

Allowing loans from deferred compensation plans is very common, with 86% of Empower Retirement plans offering some type of loan program. Of the 21 agencies that responded to the District's NAGDA membership survey, only one agency stated that it did not offer loans.

Employees faced with an emergency financial situation that do not qualify under strict Internal Revenue Service (IRS) hardship withdrawal rules would have the ability to borrow from their savings instead of utilizing other short-term, high interest rate "payday" loan options evaluated by staff. Not having access to a loan can lead to significant negative financial circumstances, eventually leading to a hardship withdrawal, which could have been initially remedied with a 457 account loan.

While borrowing from an employee's retirement savings may temporarily detract from the long-term goal of providing retirement security, feedback from a number of employees revealed that

they would likely contribute a higher percentage of their salaries if they knew a loan option was available in a time of need. For an employee seeking to purchase their first home, borrowing from retirement savings with a structured repayment program offers an alternative currently not available and may assist in the ability to afford a home in closer proximity to the District. If a retirement plan loan program is offered by IRWD, staff and Empower will provide robust education on borrowing from retirement savings.

Amendment to the 457 Plan to Allow for Employee Loans:

Based on staff's evaluation of various loan program options offered by Empower, as well as the agencies that responded to the District's NAGDA survey, staff recommends a conservative program, allowing for retirement plan loans under the following general parameters:

- Plan participants may have no more than one retirement plan loan outstanding at any time;
- Loan amounts will be consistent with IRS limits including a maximum loan amount of \$50,000 or 50% of the employee's balance, whichever is less;
- General purpose loans shall be amortized over a five-year period, and loans used for a primary residence may be amortized over 15 years (per IRS regulations); and
- Employees will be required to acknowledge in writing that any loan not repaid will become taxable income.

FISCAL IMPACTS:

There is no cost to the District for the deferred compensation loan program. Empower will administer the program for a one-time \$60 loan origination fee and a \$35 annual administration fee payable by the employee. The typical interest rate charged for loans is the Prime Rate plus one-percent, which is deposited to the employee's 457 account. This is significantly less than interest rates charged for short-term "payday" type loans evaluated by staff which can be as high as 25%.

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 reviewed by the Finance and Personnel Committee on February 2, 2016.

RECOMMENDATION:

THAT THE BOARD APPROVE THE AMENDMENT OF IRWD'S DEFERRED COMPENSATION 457 PLAN TO ALLOW FOR EMPLOYEE LOANS, WITH NO MORE THAN ONE LOAN OUTSTANDING AT ONE TIME, AND UTILIZING THE IRS MAXIMUM LOAN AMOUNT OF \$50,000 OR 50% OF THE VESTED BALANCE, WHICHEVER IS LESS, AMORTIZATION OF GENERAL PURPOSE LOANS OVER FIVE YEARS, AND LOANS FOR A PRIMARY RESIDENCE AMORTIZED OVER 15-YEARS.

LIST OF EXHIBITS:

Exhibit "A" – Pros and Cons of Allowing Loans in IRWD's Deferred Compensation 457 Plan


Exhibit "A"


PROS AND CONS OF ALLOWING LOANS IN THE DEFERRED COMPENSATION PLAN

PROS	CONS
Offering a loan program gives employees a sense that a portion of their savings will not be fully restricted, which may give them peace of mind to contribute at a higher salary-deferral rate.	Loans remove money from the plan that could be invested in the markets. Although employees are required to repay the loans with interest, there is a high likelihood that the borrowed funds would have earned a higher rate of return during the term of the loan.
Offering a loan program gives employees an alternative that could help avoid the need to utilize high interest – short term "payday" type loans.	Employees using a retirement plan loan often reduce their plan contributions during the repayment period of the loan, thereby falling behind in their intended retirement savings.
Having access to a loan program could help an employee in dire financial circumstances avoid the income tax consequences related to a hardship withdrawal from the plan.	Employees taking out plan loans are not subject to the financial due diligence a typical lender would conduct; they can more easily gain access to needed funds that they would not qualify for through other financing, increasing the risk that the loan may not be repaid.
IRS regulations limit loan amounts to a maximum of \$50,000 or 50% of the employees vested balance, whichever is less.	Loans not repaid for any reason are considered an early withdrawal (if the employee is under age 59 1/2) and are subject to income taxes.
Retirement plan loan programs can provide employees with an additional funding alternative to help in purchasing a primary residence, and may assist with employee's ability to purchase a home closer to the District.	Recent studies show that certain retirement plan loan programs could allow participants to spend their retirement savings far in advance of retirement, jeopardizing retirement income. More conservative loan programs (e.g. no multiple concurrent loans, etc.) can help in avoiding this issue.
IRS rules provide that loans for the purpose of purchasing the employee's primary residence may be repaid over 15 years. General purpose loans must be amortized over 5 years.	

March 14, 2016

Prepared and

submitted by: C. Compton 

Approved by: Paul Cook 

ACTION CALENDAR

2016 REGULAR LAFCO SPECIAL DISTRICTS SEAT ELECTION

SUMMARY:

The current term of office for one of the two Regular Special District seats on the Orange County Local Agency Formation Commission (LAFCO) will expire on June 30, 2016. As a result, the Independent Special Districts Selection Committee has begun the nomination and election process for the LAFCO seat currently held by LAFCO Commissioner Charley Wilson, a Director of the Santa Margarita Water District. Commissioner Wilson has indicated his interest in continuing to represent special districts at LAFCO.

As part of the election process, the Executive Officer of LAFCO is now accepting nominations for the position and "Declaration of Qualification to Vote" forms designating the voting member and alternative for each special district seeking to vote in the election. The deadline for submitting nominations and the "Declaration of Qualification to Vote" is Monday, April 11, 2016, at 3:00 p.m. If more than one candidate is nominated for the open seat, ballots for election of the Special District LAFCO member will be mailed on April 19, 2016, and must be returned prior to May 27, 2016, at 3:00 p.m.

Staff recommends that the Board:

- Authorize the District Secretary to submit the "Declaration of Qualification to Vote" form designating President Mary Aileen Matheis as IRWD's authorized voting member and Vice President Douglas Reinhart as IRWD's alternate voting member for the Orange County Special District Selection Committee election;
- Nominate Santa Margarita Water District Director Charley Wilson as a candidate for the Regular LAFCO Special District seat;
- Authorize President Matheis or the designated alternate to submit the "2016 Nomination Form" on behalf of Director Wilson; and
- Authorize the District's voting member to cast the District's ballot in favor of Director Wilson.

BACKGROUND:

In April of even numbered years, the Independent Special Districts Selection Committee (Selection Committee) begins the nomination and election process for the Regular LAFCO Special District seat expiring June 30 of that year. On March 7, the Executive Director of LAFCO, on behalf of the Selection Committee, sent a letter to each of Orange County's special districts notifying them of this year's nomination and election process for Regular LAFCO

Special District seat currently held by Commissioner Charley Wilson, a Director of the Santa Margarita Water District. A copy of the letter is attached as Exhibit "A".

As part of the nomination and election process, each special district must designate a board member to serve as its designated voting member and must designate a board member to serve as the alternate in the event the designated voting member is not available. The Selection Committee requires that each special district file the "Declaration of Qualification to Vote" form designating the voting member and alternate by April 11, 2016, at 3:00 p.m. Staff recommends that the Board authorize the District Secretary to submit the "Declaration of Qualification to Vote" form designating President Mary Aileen Matheis as IRWD's authorized voting member and Vice President Douglas Reinhart, as IRWD's alternate voting member, for the Orange County Special District Selection Committee election prior to the April 11 deadline.

The deadline for submitting nominations for the open seat is also April 11. Commissioner Wilson has indicated his interest in continuing to represent special districts at LAFCO. The District has supported Commissioner Wilson's appointment to the Regular LAFCO Special District seat in the past, and staff recommends that the Board nominate Commissioner Wilson as a candidate for the open Regular LAFCO Special District seat again this year. Staff also recommends that the Board authorize President Matheis or the designated alternate to submit the "2016 Nomination Form" on his behalf, and authorize the District's voting member to cast the District's ballot in favor of Director Wilson. A copy of Director Wilson's biography is attached as Exhibit "B".

If more than one candidate is nominated for the open seat, ballots for election for the Special District LAFCO member will be mailed on April 19 and must be returned prior to May 27 at 3:00 p.m. In accordance with Government Code Section 56332(c)(1) and the Bylaws of the Orange County Special District Selection Committee, "if only one candidate is nominated for a vacant seat, that candidate shall be deemed selected, with no further proceedings" (Bylaws Article III, Section F).

FISCAL IMPACTS:

None.

COMMITTEE STATUS:

Due to the timing of this request, this item was not reviewed by a Committee.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE DISTRICT SECRETARY TO SUBMIT THE “DECLARATION OF QUALIFICATION TO VOTE” FORM DESIGNATING PRESIDENT MARY AILEEN MATHEIS AS IRWD’S AUTHORIZED VOTING MEMBER AND VICE PRESIDENT DOUGLAS REINHART AS IRWD’S ALTERNATE VOTING MEMBER FOR THE ORANGE COUNTY SPECIAL DISTRICT SELECTION COMMITTEE ELECTION; NOMINATE SANTA MARGARITA WATER DISTRICT DIRECTOR CHARLEY WILSON AS A CANDIDATE FOR THE REGULAR LAFCO SPECIAL DISTRICT SEAT; AUTHORIZE PRESIDENT MATHEIS OR THE DESIGNATED ALTERNATE TO SUBMIT THE “2016 NOMINATION FORM” ON BEHALF OF DIRECTOR WILSON; AND AUTHORIZE THE DISTRICT’S VOTING MEMBER TO CAST THE DISTRICT’S BALLOT IN FAVOR OF DIRECTOR WILSON.

LIST OF EXHIBITS:

- Exhibit “A” – ACWA General Session Membership Meeting Memorandum
- Exhibit “B” – Santa Margarita Water District Director Charley Wilson Biography

EXHIBIT "A"

LOCAL AGENCY FORMATION COMMISSION

ORANGE COUNTY



March 7, 2016

Via email: boardmail@irwd.com

CHAIR
DEREK J. MCGREGOR
Representative of
General Public

VICE CHAIR
DR. ALLAN BERNSTEIN
Councilmember
City of Tustin

LISA BARTLETT
Supervisor
5th District

CHERYL BROTHERS
Councilmember
City of Fountain Valley

TODD SPITZER
Supervisor
3rd District

CHARLEY WILSON
Director
Santa Margarita Water District

JOHN WITHERS
Director
Irvine Ranch Water District

ALTERNATE
WENDY BUCKNUM
Councilmember
City of Mission Viejo

ALTERNATE
ANDREW DO
Supervisor
1st District

ALTERNATE
JAMES FISLER
Director
Mesa Water District

ALTERNATE
KATHRYN FRESHLEY
Representative of
General Public

CAROLYN EMERY
Executive Officer

Mary Aileen, Matheis Presiding Officer
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618-3102

**RE: Nomination Period for Orange County LAFCO Special District
Seats Election**

Dear Ms. Matheis,

The term of office for OC LAFCO's Regular Special District Member (currently held by Commissioner Charley Wilson, President of Santa Margarita Water District) expires on June 30, 2016. The election process for special district seats are governed by Government Code Section 56332 and the Independent Special Districts Selection Committee By-Laws. A timeline of key election events and responsibilities is outline in the Table below:

DATE	EVENT
March 7, 2016	LAFCO Executive Officer emails notification letters with nomination form and Declaration of Qualification to Vote to independent special district presiding officers, special district general managers, and LAFCO chair.
April 11, 2016 (3 PM)	Deadline for submitting nominations and Declaration of Qualification to Vote for regular special district member to LAFCO by 3:00 p.m.*
April 11 - 18, 2016	LAFCO develops ballot form.
April 19, 2016	Ballots emailed to all special district presiding officers/ designees.
May 27, 2016 (3 PM)	Ballots due to LAFCO by 3:00 p.m.
June 6, 2016	LAFCO staff (or designee) tabulates ballots and announces results.
July 13, 2016	Oath of office administered (Commission Hearing).
* Pursuant to Government Code §56332 (c)(1), if only one candidate is nominated for a vacant seat, that candidate shall be deemed selected, with no further proceedings.	

In accordance with Government Code Section 56332 and the Special District Selection Committee By-Laws, the nomination period for the upcoming expired terms is **March 7 through April 11, 2016**. If your district chooses to nominate a candidate, the presiding officer must complete the enclosed nomination form and return to the LAFCO Executive Officer by **3:00 p.m. on Monday, April 11, 2016**. Nomination forms may be returned by email to cemery@oclafo.org or mailed to the LAFCO offices at 2677 North Main Street, Suite 1050, Santa Ana, CA 92705. Should you have any questions regarding the election process, please contact me or our Commission Clerk, Cheryl-Carter Benjamin at (714) 640-5100.

Sincerely,



Carolyn Emery
Executive Officer

Attachments:

- A. 2016 Nomination Form - Regular Special District Member
- B. Declaration of Qualification to Vote

cc: Chair, OC LAFCO
Special District General Managers

2016 NOMINATION FORM

Candidate for the Local Agency Formation Commission (LAFCO)

CANDIDATE INFORMATION FOR REGULAR SPECIAL DISTRICT MEMBER:

NAME: _____

TITLE: _____

DISTRICT: _____

Check box if resume or statement of qualifications is attached.

SPECIAL DISTRICT SELECTION COMMITTEE MEMBER SUBMITTING NOMINATION
(Must be the presiding officer or a designated alternate board member.)

NAME: _____ DATE: _____

SIGNATURE: _____

TITLE: _____

DISTRICT: _____

A resume or other supplemental information about the candidate may be included and will be distributed with the election ballots. All completed nomination forms and any supplemental information must be returned to Orange County LAFCO by:

1. Email at: cemery@oclafco.org or
2. Mail at: Orange County LAFCO
2677 North Main Street, Suite 1050
Santa Ana, CA 92705; or
3. Fax at: (714) 640-5139, Attn: Carolyn Emery

All forms and supplemental information must be received by LAFCO prior to 3:00 p.m. on Monday, April 11, 2016. Nomination forms or candidate information received after that deadline will not be considered.

DECLARATION OF QUALIFICATION TO VOTE

Mary Aileen Matheis, Presiding Officer
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618-3102
boardmail@irwd.com

I, _____, * hereby attest that
_____ **has been authorized by the Board of
_____ to vote in the Orange County Special
District Selection Committee election.

The Board also designated _____ ***as the alternate
voting member.

Name and Title*: _____

Signature*: _____

Date: _____

**Must be signed by either Board President or Board Secretary*

*** Must be a member of the Board*

****Must be a member of the Board*

Completed forms must be received by LAFCO prior to 3 PM, Monday, April 11, 2016.

Forms must be delivered to Orange County LAFCO by:

- (1) Email at: cemery@oclafco.org, or
- (2) Mail at: Orange County LAFCO
2677 North Main Street, Suite 1050
Santa Ana, CA 92705
Attn: Carolyn Emery, or
- (3) FAX at: (714) 640-5139, Attn: Carolyn Emery

EXHIBIT "B"

As current President of the Board and a Director of the Santa Margarita Water District, Charley Wilson is an active and dynamic force in providing leadership to a customer base of more than 155,000 residents and businesses in Mission Viejo, Rancho Santa Margarita and the unincorporated areas of Coto de Caza, Las Flores, Ladera Ranch, Talega and the communities of Rancho Mission Viejo. The Santa Margarita Water District is the second largest retail water agency in Orange County, which serves as the lifeline to the fastest growing area in Orange County and is responsible for supplying clean, affordable, reliable water and wastewater to a multi-million dollar economy.

Wilson was also selected by the Special Districts of Orange County to serve as their representative to the Local Area Formation Commission (LAFCO) in 2012 after serving as the Alternate for ten years. LAFCO is a state mandated local agency responsible primarily for establishing jurisdictional boundaries and forming new cities or districts. More recently, Wilson has served as Chairman of the Southern California Water Committee, a nonprofit, nonpartisan, public education partnership between cities, counties, business, industry, agriculture and water agencies dedicated to securing adequate, reliable affordable, quality water for Southern California.

Charley has been a leading public affairs professional in Southern California for more than 30 years. Wilson spent 25 years in the electric utility industry, with Southern California Edison, where he coordinated the development and implementation of strategic planning and communication efforts to align company interests with local, state and federal government officials and agencies. Today, he represents public affairs clients as the founder and owner of PC Consulting Services, Inc.

Early in his career, he served as director of community and media affairs for State and U.S. Senator John Seymour. He also worked in sports radio and television with ABC, ESPN, and the Netherlands Broadcast Company.

A frequent lecturer and university level instructor, Wilson was invited to provide advanced political campaign and communications seminars to train candidates and political parties in Novosibirsk, Russia. Wilson also hosted and produced "Orange County Outlook," a locally produced television show highlighting current events, political debate and economic development activities in Orange County.

Charley earned his BA degree in political science with an emphasis in international relations and public administration from UCLA. He is currently working toward his Master's Degree in Organizational Leadership at Azusa Pacific University.

Charley has been involved in several community activities including the Southern California Water Committee, Association of California Water Agencies, Southern California Public Affairs Association Advisory Board, Southern California Building Industry Association, Serra Catholic School's Parent Advisory Board, Young Executives of America, the Orange County Public Affairs Association, Orange County Business Council, Mission Hospital Foundation, the Knights of Columbus, Constitutional Rights Foundation, Boy Scouts, YMCA, United Way, Red Cross, KOCE TV, Cystic Fibrosis, CORO, the Sigma Chi fraternity and the UCLA alumni association.

March 14, 2016

Prepared by: J. McGehee/R. Mori

Submitted by: K. Burton (K.B.)

Approved by: Paul Cook

ACTION CALENDAR

STOCKDALE WEST INTEGRATED WATER BANKING PROJECT CONSTRUCTION PHASE SERVICES CONSULTANT SELECTION, CONSTRUCTION AWARD, AND BUDGET ADJUSTMENTS

SUMMARY:

The Rosedale-Rio Bravo Water Storage District and IRWD are jointly developing the Stockdale West Integrated Water Banking Project (Project). The Project includes construction of water banking facilities on IRWD's Stockdale property including the drilling and equipping of three new extraction wells, construction of conveyance facilities, construction of a turn-out structure from the Cross Valley Canal (CVC), and construction of a turn-in facility to the CVC Return Pipeline. Staff recommends that the Board:

- Authorize the General Manager to execute a Professional Services Agreement with Dee Jasper & Associates, Inc. (DJA) in the amount of \$833,777 for construction phase services;
- Authorize the General Manager to execute a construction contract with W.M. Lyles Company in the amount of \$9,343,964.90;
- Authorize a budget decrease in the FY 2015-16 Capital Budget for the Stockdale West CVC Turnout Facilities Project 6145 in the amount of <\$2,557,500>, from \$2,557,500 to \$0; and
- Authorize a budget increase in the FY 2015-16 Capital Budget for the Stockdale West Integrated Water Banking Project 3766 in the amount of \$7,595,700, from \$4,744,900 to \$12,340,600.

BACKGROUND:

In 2010, IRWD purchased the Stockdale West property located west of the Strand Ranch. Stockdale West is being developed by Rosedale and IRWD to allow both agencies to utilize available storage in the Kern River Fan Area by constructing and operating recharge and recovery facilities on each agency's respective Stockdale properties. The Project will integrate the capacities and facilities into Rosedale's Conjunctive Use Program. The purpose of IRWD's participation in the Project is to provide dry year water supply reliability for IRWD's customers.

In 2011, under a pilot project, IRWD constructed four recharge basins on the Stockdale West property and a 54-inch siphon under the Rosedale In-Take Channel to allow recharge water to flow from Strand Ranch to Stockdale West. In accordance with the recently-adopted IRWD Goals and Objectives, the Project aligns with the District's goal of enhancing water supply reliability.

Consultant Selection:

Staff requested a proposal from DJA to provide engineering support during construction including construction management, geotechnical inspection, surveying, and construction inspection services for the Project. Tom Harder & Associates, who provided the engineering design for the drilling of the extraction wells, and URS Corporation, who provided the engineering design for the wellhead equipping and conveyance facilities, will both subcontract to DJA for engineering support on their respective design components. DJA will also subcontract with Kleinfelder and Electrical Power Systems for geotechnical testing and observation and electrical inspection services, respectively, during construction.

DJA has successfully managed previous construction projects for IRWD including the Strand Ranch Project, where DJA provided similar services. In 2011, DJA successfully completed the design and provided construction management services for the Stockdale West Recharge Facilities Project. As a result of DJA's experience on past projects, DJA has developed a detailed understanding of IRWD's water banking facilities.

Construction of the Project will also require extensive coordination with the Kern County Water Agency (KCWA), which will include obtaining an encroachment permit and submitting inspection and testing records to KCWA on a regular basis. All work within the CVC right-of-way will need to be performed in accordance with KCWA standards and requirements. Based on experience gained from prior IRWD projects and other local projects, DJA is uniquely qualified to perform the necessary coordination and to obtain timely approvals from KCWA for the CVC turnout, Kern Water Bank Authority for the crossing of the Pioneer Canal, and Rosedale for the crossing of the Rosedale Intake Channel.

The proposal from DJA in the amount of \$833,777 is attached as Exhibit "A". Staff reviewed the proposal and confirmed that the scope of work and associated level of effort are commensurate with the Project requirements. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with DJA for engineering support during construction.

Construction Award:

The Project was advertised for bids January 20, 2016 to a select list of eleven contractors including ARB, Inc., HPS Mechanical, Inc., J.F. Shea Construction, Inc., Olsson Construction, Pacific Hydrotech, Pascal & Ludwig Constructors, R.C. Foster Corporation, Specialty Construction, Inc., SS Mechanical Corp., Steve P. Rados, Inc., and W.M. Lyles Company. The bid opening was held February 25, 2016 with bids received from Pacific Hydrotech, Specialty Construction, Inc., Steve P. Rados, Inc., and W.M. Lyles Company. W.M. Lyles Company is the apparent low bidder with a bid amount of \$9,343,964.90. W.M. Lyles Company named Bakersfield Well and Pump as the well drilling subcontractor in its bid. W.M. Lyles Company with Bakersfield Well and Pump successfully completed the Strand Ranch Project for IRWD in 2012, which also consisted of well drilling, well equipping, conveyance facilities, and CVC turnout and turn-in facilities.

Action Calendar: Stockdale West Integrated Water Banking Project Construction Phase Services
Consultant Selection, Construction Award, and Budget Adjustments

March 14, 2016

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Staff reviewed W.M. Lyles Company's bid and has determined that it is responsive. The apparent low bid is about 20 percent higher than the engineer's estimate of \$7,800,000. The second lowest bid is \$9,425,972, a difference of only \$82,007 (less than one percent higher) from the apparent low bid. The remaining two bids were \$10,017,390 and \$12,789,035. Upon review of the bids, staff identified that the bid amounts for the well drilling and well equipping activities exceeded the amounts established by the engineering estimate. Staff attributes the difference between the apparent low bid and the engineer's estimate to additional market driven costs associated with the highly active well drilling and well equipping market currently being observed throughout the state.

Staff recommends awarding the construction contract to W.M. Lyles Company in the amount of \$9,343,964.90. The bid summary is attached as Exhibit "B".

Project Schedule:

Construction of the Project is anticipated to proceed in accordance with the following milestones:

- Construction Notice of Award March 15, 2016
- Construction Notice to Proceed April 2016
- Construction Completion August 2017

Staff anticipates that water will be available for recharge later this year as discussed at the February, 2016 Water Banking Committee. To accommodate the potential recharge activities, the Contract Documents include an early completion milestone, which requires the contractor to complete construction of the well pads within 60 calendar days from the date of the Notice of Award. Once the well pads are constructed, the basins will be available for recharge, and the contractor will be able to proceed with construction of the majority of the project, whether the adjacent ponds are recharging or not.

FISCAL IMPACTS:

Project 3766, which includes the drilling and equipping of the extraction wells, the conveyance facilities, and the turn-in facility to the CVC Return Pipeline, and Project 6145, which includes the turn-out facilities from the CVC, are included in the FY 2015-16 Capital Budget. Since the projects are being constructed under a single construction contract, staff recommends consolidating the budgets into a single project, Project 3766. Staff recommends that the budget for Project 6145 be reduced in the FY 2015-16 Capital Budget in the amount of <\$2,557,500>, from \$2,557,500 to \$0; and that the budget for Project 3766 be increased in the amount of \$7,595,700, from \$4,744,900 to \$12,340,600, as shown in the following table.

Action Calendar: Stockdale West Integrated Water Banking Project Construction Phase Services
Consultant Selection, Construction Award, and Budget Adjustments

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Project No.	Current Budget	Addition <Reduction>	Total Budget
3766	\$4,744,900	\$7,595,700	\$12,340,600
6145	\$2,557,500	<\$2,557,500>	\$0
Total	\$7,302,400	\$5,038,200	\$12,340,600

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, Rosedale filed a Notice of Determination with the County of Kern on December 8, 2015, and with the CA State Clearinghouse on December 9, 2015 for the Stockdale Integrated Banking Project Final Environmental Impact Report. IRWD, as a Responsible Agency, filed a Notice of Determination with the County of Orange on December 14, 2015, with the California State Clearinghouse on December 15, 2015, and with the County of Kern on December 21, 2015.

COMMITTEE STATUS:

The consultant selection recommendation was reviewed by the Engineering and Operations Committee on February 16, 2016. Construction awards are not routinely taken to Committee prior to submittal to the Board.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH DEE JASPAR & ASSOCIATES, INC. IN THE AMOUNT OF \$833,777 FOR CONSTRUCTION PHASE SERVICES; AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH W.M. LYLES COMPANY IN THE AMOUNT OF \$9,343,964.90 FOR THE STOCKDALE WEST INTEGRATED WATER BANKING, PROJECT 3766; AUTHORIZE A BUDGET DECREASE IN THE FY 2015-16 CAPITAL BUDGET FOR PROJECT 6145 IN THE AMOUNT OF <\$2,557,500>, FROM \$2,557,500 TO \$0; AND AUTHORIZE A BUDGET INCREASE IN THE FY 2015-16 CAPITAL BUDGET FOR PROJECT 3766 IN THE AMOUNT OF \$7,595,700, FROM \$4,744,900 TO \$12,340,600.

LIST OF EXHIBITS:

- Exhibit "A" – DJA's Scope of Work and Fee Proposal
- Exhibit "B" – Bid Summary

EXHIBIT "A"



Stockdale West Integrated Water Banking Project

Construction Management Proposal

Dee Jasper & Associates, Inc.
2730 Unicorn Rd. Bldg A
Bakersfield, Ca 93308

Consulting Civil Engineers



DEE JASPAR & ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
2730 UNICORN ROAD, BLDG A
BAKERSFIELD, CA 93308
PHONE (661) 393-4796
FAX (661) 393-4799

January 8, 2016

Joseph McGehee
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92619

**Proposal to Provide Construction Management & Inspection Services for the
Stockdale West Integrated Water Banking Project**

Ladies and Gentlemen:

Thank you for the opportunity to submit a proposal to provide consulting services to **Irvine Ranch Water District (IRWD) for Construction Management & Inspection Services for the Stockdale West Integrated Water Banking Project. Dee Jaspar & Associates, Inc., (DJA)**, has over 30 years experience in Kern and Tulare County. This experience includes civil engineering design, operational experience, construction and inspection of both heavy (general engineering) and building construction projects, and construction contract administration. Our goals in the administration of the Stockdale West Integrated Banking Project are:

- **Ensure quality control through inspection and testing to provide IRWD facilities that will operate and perform as designed**
- **Avoid unnecessary and unwarranted construction cost change orders**
- **Work with the contractor and IRWD to complete the project within the specified contract duration**
- **Plan ahead to avoid construction conflicts and minimize impacts to existing facilities**
- **Develop an atmosphere of teamwork between IRWD, the designers, and the contractor wherein conflicts are resolved fairly.**

This proposal demonstrates our ability to manage this construction project, facilitate communications between IRWD, the Contractor, and the Design Engineers, and ensure that all phases of the contract documents are completed to their fullest extent and done properly.

DJA's goal is to deliver a construction project that operates to the complete satisfaction of IRWD that is on-time and on-budget. In order to achieve this we will:

- **Have a strong understanding** of the contract plans and specifications and the intent of IRWD and Design Engineers
- **Provide full-time construction inspection** as required to ensure that the work conforms to the plans and specifications and addresses any construction issues that arise in a timely fashion
- **Facilitate project meetings** including, but not limited to, a preconstruction meeting, weekly progress meetings, special meetings, and meetings to resolve construction issues fairly
- **Review** the Contractor's safety program, oversee the Contractor's site security program, and assist the Contractor in permit acquisition
- **Prepare and maintain construction records** including, but not limited to, inspection reports, submittals, test reports, schedules, correspondence, meeting minutes, field memos, change orders, progress payments, final inspections, certifications, final reports, and record drawings
- **Prepare a photographic log** of the construction projects
- **Monitor the construction schedule and progress** and endeavor to keep the Contractor on schedule to meet the project completion date
- **Coordinate and oversee** testing and quality control requirements, facility commissioning and project start-up

Dee Jaspar and Associates, Inc. understands the importance of this project to IRWD. We are pleased to provide this construction administration proposal and look forward to the opportunity to serve you.

Sincerely,



Dee Jaspar
President

I. PROJECT UNDERSTANDING

The project will involve providing construction management and inspection services for the Stockdale West Integrated Water Banking Project. It is understood that the construction management and inspection services will be provided for well drilling, construction, & development, well pumps and motors, discharge piping, electrical, conveyance piping, CVC turnout facility, and reinforced concrete turn-in structures at the RRBWSD return pipeline.

Our firm will be responsible for managing the construction project and performing all factory and field inspection work to ensure compliance with the contract documents and report such to the Irvine Ranch Water District (IRWD) project manager. This will aid in the IRWD project manager and staff in being able to readily inspect, review, and discuss the projects progress and ensure compliance with IRWD policies and requirements.

Our firm will administer pre-construction services such as the pre-bid job walk. During the construction project our firm will provide administration of project meetings, submittal reviews, construction staking, project management, construction contract administration, field inspection, and construction quality assurance all as outlined herein under "Work Plan". Near the completion of the construction project our firm will perform substantial and final completion services, review and approve operation and maintenance manuals, coordinate system start-up and training, compile project records for submittal to IRWD, and obtain the appropriate warranty and lien release information from the Contractor.

Our firm has experience with the design, bidding, and construction of multiple well field projects including all facets of the well drilling and construction work, pumps, motors, pipelines, appurtenances, electrical, and reinforced concrete structures. As a result our firm has a strong understanding of the project requirements and is well qualified to perform the construction management and inspection services for IRWD.

II. WORK PLAN

DJA's project approach, as described below, was developed to be similar to the construction management services provided for the Strand Ranch Project. Careful attention has been given to each criterion in an effort to meet IRWD's objectives for this project. DJA's goal is to complete the project on time and within budget. **Combined with our experience, our commitment to excellence and fair-play will be the fundamental principle directing the successful completion of this project.**

Technical approach for providing Construction Administration Services as outlined below:

1. Meetings:

DJA will schedule, prepare agendas, facilitate meetings, maintain meeting minutes, distribute minutes, and oversee meetings required to facilitate the progress and completion of the construction project. These meetings include, but are not limited to, a preconstruction meeting, weekly progress meetings, safety meetings, testing/sampling meetings, a pre-commissioning meeting, conflict resolution meetings, and any other necessary meetings.



2. Submittal Review:

DJA will coordinate review of Contractor's submittals to ensure that all submittals required by the contract documents are addressed and that all work will comply with the contract documents. A submittal log will be maintained by DJA for tracking purposes and a hard copy and electronic copy of approved submittals maintained by DJA for submittal to IRWD at the completion of the project for their records. Submittals will be transmitted to IRWD for review and comment as well as to the Design Engineer as necessary for review and approval. DJA will be responsible for compiling the review comments and transmitting back to the Contractor.

3. On-Site Inspection:

DJA will provide on-site construction inspection for the project. Daily inspection will be performed by a DJA construction inspector. The DJA inspector will be in constant communication with the DJA Quality Assurance Engineer and Construction Manager throughout the project in addition to weekly inspections by the QA Engineer and Construction Manager and more frequently as necessary. DJA will coordinate EPS for provisional electrical inspections as the work progresses and with Kleinfelder for compaction testing and concrete testing. Daily



inspection reports will be prepared and, at a minimum, a monthly progress report will be issued by the Construction Manager to IRWD along with the monthly progress payment requests.

4. Safety, Security, & Permits:

DJA will review the Contractor's safety program and assure that the program is implemented. DJA and its subconsultants will abide by all site safety rules and procedures including steel toe boots, hard hats, and safety eye wear.

DJA will review all project permits and assist the Contractor in permit acquisition as necessary.

DJA will assist the Contractor with site security as necessary. DJA will oversee and coordinate site access until all appropriate security measures are completed.

5. Project Coordination:

DJA will provide all necessary administration and related services to coordinate the construction activities. Meetings, sampling, testing, commissioning, access, troubleshooting, and communication with external utilities will be coordinated by DJA. In addition, the field set of project drawings will be routinely updated together with a weekly photographic log of the construction projects.



DJA will ensure that IRWD receives all requested project deliverables in a fashion and timeframe that it expects.

6. Construction Schedule and Progress:

DJA will coordinate the development of the Base schedule with the Contractor including critical path analysis to identify long lead time items and tasks. Areas of concern will be addressed accordingly with regard to project time frame and sequencing. DJA will oversee the weekly updates of the construction schedule, including the Contractor's preparation of a three-week "look-ahead" schedule.

DJA will observe and monitor the construction progress and report deviations from the prepared schedule. DJA will work with the Contractor to develop and implement corrective actions to meet the project schedule. *DJA will address schedule and progress in a monthly progress report as well as at the weekly meetings.*



7. Construction Quality Control:

DJA will perform regular visual inspections of all construction work. Inspection and testing of soils, concrete, steel, pumps, motors, pipelines, and coating work will be performed by DJA and Kleinfelder, Inc. DJA and EPS will perform inspection and testing of site electrical work. DJA will provide inspection services off-site at manufacturing facilities, as necessary, to ensure strict compliance with the contract documents. DJA will also provide construction survey layouts and verify design grades. A critical area of the project inspection will be the conveyance pipeline and turnout pipeline work as well as the work within the CVC right-of-way. DJA will perform full-time inspection during this portion of the work to ensure that the pipelines are installed correctly, backfilled and compacted in accordance with the Contract Documents, and free of damage at the completion of the project.

DJA will address any construction problems or deficiencies encountered and the proposed corrective actions at the project progress meetings and in the monthly progress report to IRWD. Corrective actions will be closely inspected and monitored.

8. Maintain Construction Records:

DJA will maintain all construction records for final delivery to IRWD. Project binders will be organized and maintained for each major component of construction administration such as:

- Progress Payments and Contract Documents
- Submittals
- Inspection Reports
- Meeting Minutes
- Correspondence with Design Engineers, IRWD, and Contractor
- Construction Schedules
- Requests for Information and Field Memos
- Change Orders
- Testing Results
- Training, Operation, & Maintenance Protocols
- Record Drawings
- Photographic Log

Contract documentation such as RFI's, Field Memorandum's, PCO's, CCO's, and associated logs will have copies distributed to IRWD for review and approval. Three original hardcopies of all documents requiring approval and signature of IRWD will be provided.

9. Progress Payments:

DJA will meet with the Contractor to establish a final schedule of values for the execution of the contract. DJA will meet with the Contractor monthly to review the quantities of materials on-site and the progress of work completed. DJA will review and

approve the monthly progress payments as well as review certified payroll and distribute to IRWD with a recommendation for payment.

DJA will track and maintain the construction project costs showing the cumulative totals and monthly totals broken down by task and include in the monthly progress report to IRWD.

10. Request for Information:

DJA will receive all requests for information (RFI's) and review. DJA will respond to requests for information when the contract documents clearly address the item and will distribute to the Design Engineer for resolution at all other times. DJA will also forward all RFI's to IRWD for review and comment. DJA will compile all comments, provide an official response to the Contractor, oversee the timely response to the Contractor, and the proper implementation by the Contractor of the RFI response. *DJA will develop and maintain a RFI log and copies of all RFI's in a project binder.*

11. Change Orders:

DJA will receive proposed contract change orders and evaluate their validity and review with IRWD Staff. DJA will investigate and inspect change order claims as necessary to ensure that it is a change from the original scope of work in the contract documents. DJA will estimate the cost of the change order and DJA/IRWD Staff will negotiate as necessary in applicable instances. The Design Engineer will be contacted when necessary. DJA will provide formal change orders to IRWD along with the appropriate recommendation. *DJA will develop and maintain all change orders, perform cost tracking, and keep record copies in a project binder.*

12. Coordinate Final Inspections/Commissioning/Startup:

DJA will schedule and coordinate substantial completion and final inspections with the appropriate personnel. A project list of deficiencies will be compiled and prepared for the Contractor. DJA will ensure that all corrective actions are completed by the Contractor and issue a Letter of Acceptance and Notice of Substantial Completion. DJA will coordinate, inspect, and otherwise take an active role in the facility commissioning, equipment performance testing, and project start-up. *DJA will prepare all necessary forms and reports for the testing and commissioning of equipment as well as preparing a check list of items to be inspected, verified, operated, and tested in accordance with the contract documents.*

13. Project Close-out/Documentation/Certification/Final Report:

DJA will coordinate the construction close-out operations such as completion of deficiencies, letter of acceptance of project operation, resolution of change orders, delivery to IRWD of specified extra materials, and recommendation for final payment and retentions.

DJA will submit to IRWD all project documentation in an organized and useable form. This will include project binders as noted above, photographic log, files,

submittals, samples, test reports, project records, warranties, lien releases, and record drawings. In addition, DJA will review and issue final project O&M manuals to the design engineer and operators to receive comments and incorporate said comments into the final approved O&M manuals for the project from the Contractor.

DJA will issue a Final Inspection (CQA) Report to IRWD including an executive summary, all inspection reports, test reports, daily sheets, a project certification letter, and copies of all meeting minutes.

Combined with our experience,
our commitment to excellence
and fair-play will be the
fundamental principle directing
the successful completion of
this project.

III. PROJECT TEAM

Dee Jasper and Associates, Inc., founded in 1980 and established as a California corporation in 1982, is a professional civil engineering corporation. For more than thirty years, civil engineers at Dee Jasper & Associates have specialized in project management, design, and construction administration for both public and private civil projects. Dee Jasper & Associates, Inc. has offices in Bakersfield, CA and Porterville, CA.

Dee Jasper & Associates, Inc. currently employs ten (10) full-time and two (2) part-time staff members in the Bakersfield and Porterville offices; 4 Professional Engineers, 2 Staff Engineers (E.I.T.), 1 Drafting Technician, 1 Surveyor, 2 Administrative/Clerical, and 2 part-time inspectors (on an as needed basis).

Project Design and Management

- Project Design
- Project Management
- Construction Administration
- Construction Inspection
- Budget / Job Costing
- Estimating
- Scheduling

Civil Design

- Pipeline and Open Channel Design
- Pumping Plant Design
- Right of Way Surveys
- Topographic and Alignment Surveys
- Agricultural Water Supply and Distribution System
- Groundwater Recharge Facilities
- Water Storage Reservoirs
- Municipal / Industrial Water Supply and Treatment
- Feasibility Studies
- Drainage Studies and Drainage System Design
- Flood Studies and Flood Control Systems
- Agricultural Drainage Water Re-Use And Disposal Projects
- Permit Acquisition

Land Development

- Improvement Plans
- Boundary Surveys
- ALTA Surveys
- Construction Surveys
- Grading Plans
- Topographic Surveys

Municipal / Industrial Water Supply

- Distribution System Design and Analysis
- Pumping Plant Design
- Water Treatment Pilot Studies
- Water Treatment System Design
- Water Well Pilot Studies
- Well Design and Construction Monitoring
- Steel Water Storage Reservoir Design and Construction Monitoring
- Rate Structure Studies and Design
- Plan Checking Service

Agricultural Water Supply

- Open Channel Analysis and Design
- Closed Conduit Analysis and Design
- Pumping Plant Design
- Pipeline Alignment Surveys
- Earthen Water Storage Reservoirs
- Flood Control Facility Analysis and Design
- Open Channel Improvement Projects
 - Channel Prism Modification
 - Channel Lining and Liner Extensions
- Right-of-Way Determination and Descriptions
- Ground Water Recharge

Clients Served

Dee Jaspar & Associates has served agricultural water districts and municipalities in many capacities including, but not limited to, engineering design, design and construction project team member, and construction inspection and administration. In addition to IRWD, below is a partial list of other clients we serve.

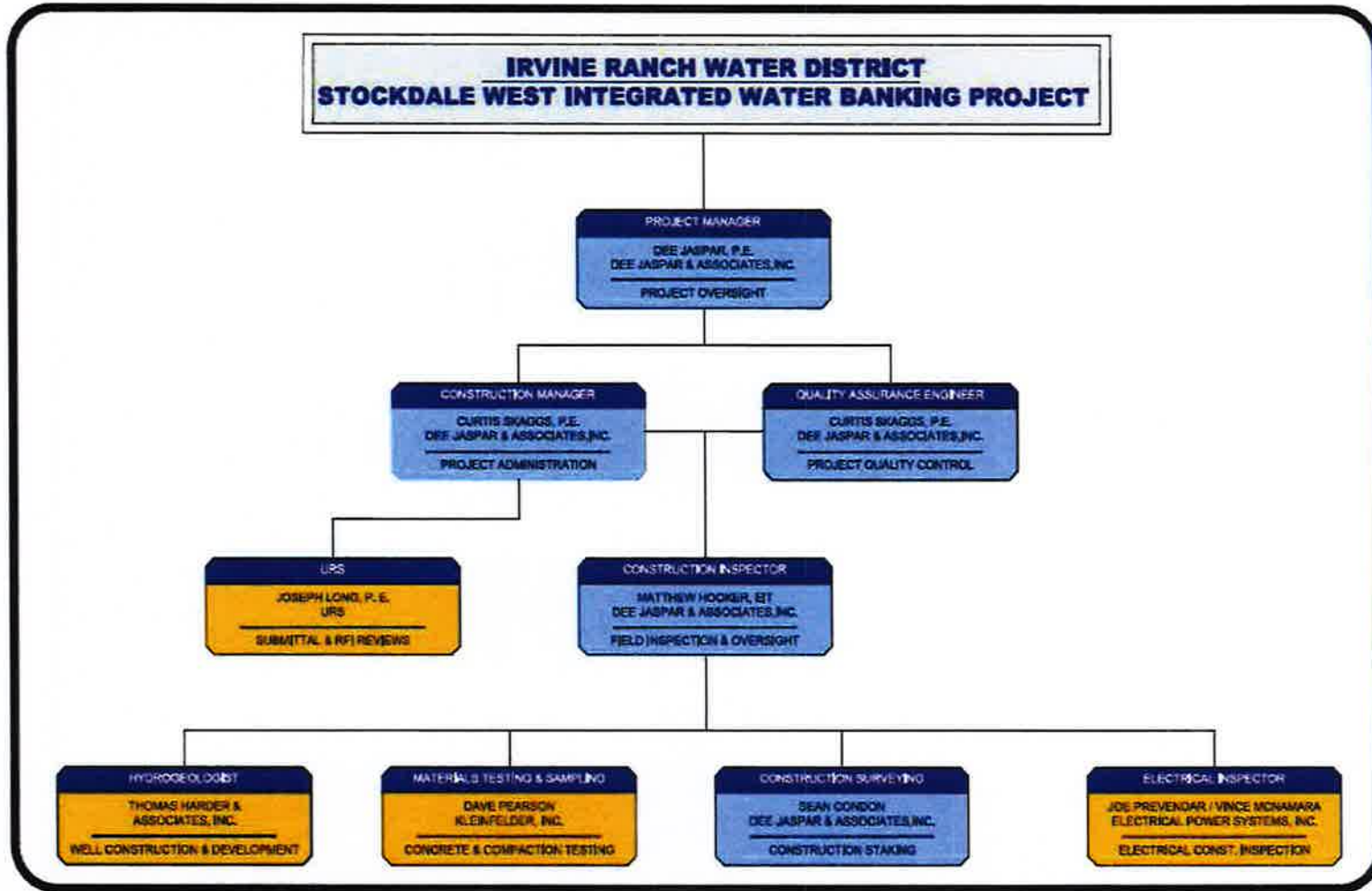
- The City of McFarland
- The City of Shafter
- Vaughn Mutual Water Company
- Oildale Mutual Water Company
- Kern County Waste Management Department
- Cawelo Water District
- Arvin Community Services District
- Chevron, Inc.
- North of the River Park and Recreation District
- Kern County Water Agency

Dee Jaspar and Associates, Inc. will provide construction administration services as outlined in this proposal. Tom Harder & Co., AECOM, Electrical Power Systems, Inc. (EPS) and Kleinfelder, Inc. will be sub-consultants to DJA. Tom Harder will provide well drilling, construction, and development inspection and oversight for the three water wells. Kleinfelder, Inc. will be a sub-consultant to DJA and provide third-party testing and inspection for soils compaction, aggregate base compaction, concrete testing, and compliance sampling and testing verifications. EPS will be utilized to assist with change order review and performance of special inspections as required by the contract documents and the DJA inspector. Joe Long with AECOM will provide submittal reviews and RFI responses and as-built drawings for the well equipping and pipeline portion of the project.

<i>Construction Administration Team</i>				
<i>Project Role</i>	<i>Personnel</i>	<i>Affiliation</i>	<i>Registration</i>	<i>Experience</i>
Project Engineer	Dee Jaspar	DJA	PE	44 yrs
Construction Manager & QA Engineer	Curtis Skaggs	DJA	PE	18 yrs
Construction Inspector	Matt Hooker	DJA	EIT	11 yrs
Electrical Inspector	Vince McNamara	EPS	--	46 yrs
Soils & Concrete Technician	Dave Pearson	Kleinfelder	PE	42 yrs
Hydrogeologist	Tom Harder	Thomas Harder & Co.	P.G., C.HG.	

Dee Jaspar & Associates, Inc.

Construction Management & Inspection Services





January 8, 2016

Mr. Curtis Skaggs
Dee Jaspar & Associates, Inc.
2730 Unicorn Rd., Building A
Bakersfield, CA 93308

Re: Proposed Scope of Work and Cost Estimate for Construction Phase Services for Three Stockdale West Production Wells near Bakersfield, California

Dear Mr. Skaggs,

This letter outlines Thomas Harder & Co.'s (TH&Co's) proposed scope of work and cost estimate to provide hydrogeological inspection services for three new production wells for Irvine Ranch Water District's (IRWD's) Stockdale West portion of the Stockdale Integrated Banking Project (the Project). The scope of work and cost estimate is based on the assumption that each of the three wells will be completed to a depth of 970 ft below ground surface (bgs). However, the pilot borehole for one well will be drilled to a depth of 1,400 ft bgs and will include six isolated aquifer zone test intervals. It is our understanding that the wells will be drilled and constructed under one drilling contract (one contractor to drill and construct all three wells). Our scope of work and cost estimate also assumes that the wells will be drilled in series (one after the other) such that multiple drilling rigs are not necessary.

Our proposed scope of work includes six tasks:

1. Project Management
2. Inspection During Pilot Borehole Drilling and Testing
3. Final Well Design
4. Inspection During Well Construction, Development and Testing
5. Reporting
6. Inspection During Rehabilitation and Testing of the Existing Agricultural Well

As the scope of work for Tasks 2 through 5 is the same for each well, one task description is provided that applies to all three wells. A summary cost estimate is provided in Task 1. Detailed costs are provided in Tasks 2 through 6.

Thomas Harder & Co.
1260 N. Hancock St., Suite 109
Anaheim, California 92807
(714) 779-3875

SCOPE OF WORK

TASK 1 – PROJECT MANAGEMENT

Subtask 1.1 – Review Pre-Construction Contractor Submittals

TH&Co will review pre-construction contractor submittals for compliance with the Project Manual. Using IRWD submittal review forms, TH&Co will accept, reject or recommend modification to each submittal prior to final submission to IRWD. The budget for this task is based on the assumption that one contractor will drill each of the three wells (one set of submittals).

Subtask 1.2 – Contractor Coordination and Pre-Construction Field Meeting

TH&Co will coordinate drilling rig mobilization and schedule with Dee Jaspar/IRWD staff and the drilling contractor prior to the start of drilling operations. This work will include one pre-construction meeting with the drilling contractor to confirm site access, define the working areas, finalize the exact drilling/well locations, confirm sources of water and discharge locations, review the scope of work, plan the schedule and sequence of drilling, and check on the status of permits. The budget for this task assumes one pre-construction meeting in Bakersfield that addresses all three well sites.

Subtask 1.3 – Review Contractor Invoices

TH&Co will review monthly contractor invoices to ensure consistency with daily inspection field notes.

Subtask 1.4 – Attend Meetings

During the course of well drilling and construction work, it is anticipated that meetings with IRWD (in addition to the pre-construction meeting described in Subtask 1.2) will be necessary to present and discuss proposed zone testing intervals, final well designs, present results from pumping tests, and discuss recommended discharge rates and pump settings for the wells. Nine meetings are proposed:

1. Well SWEX-1 Present Pilot Borehole Data and Proposed Zone Test Intervals
2. Well SWEX-1 Present Final Well Design
3. Well SWEX-1 Present Pumping Test Results and Recommended Discharge Rate and Pump Setting
4. Well SWEX-2 Present Pilot Borehole Data and Proposed Zone Test Intervals



5. Well SWEX-2 Present Final Well Design
6. Well SWEX-2 Present Pumping Test Results and Recommended Discharge Rate and Pump Setting
7. Well SWEX-3 Present Pilot Borehole Data and Proposed Zone Test Intervals
8. Well SWEX-3 Present Final Well Design
9. Well SWEX-3 Present Pumping Test Results and Recommended Discharge Rate and Pump Setting

The budget for this task assumes that all meetings will be held at IRWD's office in Irvine, California.

TASK 2 – INSPECTION DURING PILOT BOREHOLE DRILLING AND TESTING – THREE WELLS

This task includes on site data collection and testing within the pilot boreholes for each well. Interpretation of the data will be used to produce recommended final well designs. It is noted that onsite inspection of the drilling and installation of the conductor casing is assumed to be performed by Dee Jaspar.

Subtask 2.1 – Inspection during Pilot Borehole Drilling – Three Wells

TH&Co will provide onsite inspection at each of the three well sites during pilot borehole drilling to collect soil samples, log the drill cuttings and identify the depth, thickness and characteristics of aquifers for well screen design. All cuttings will be logged in accordance with the Unified Soil Classification System (USCS). Selected soil samples will be retained for sieve analysis for designing the filter pack. All soil samples will be properly labeled with the client, well number, date collected, and depth interval. The budget for this task assumes that the pilot borehole for two wells will be drilled to a total depth of 970 ft bgs and the pilot borehole for the third well will be drilled to a total depth of 1,400 ft bgs.

Subtask 2.2 – Inspection during Geophysical Logging – Three Wells

Upon completion of each pilot borehole, TH&Co will provide full-time inspection of borehole geophysical logging, which will provide additional information for well design. It is anticipated that a full suite of geophysical logs will be obtained from each pilot borehole including resistivity (short and long-normal), guard or lateralog, gamma ray, spontaneous potential, and sonic logs (Scale of 1 inch = 50 ft). These data will help identify aquifer zones for isolated aquifer zone testing and final well designs. In addition, a borehole deviation survey will be



conducted at the time of the geophysical logging to assess the plumbness and alignment of the pilot borehole.

Subtask 2.3 – Design and Inspection of Isolated Aquifer Zone Testing – Three Wells

Based on a review of soil lithologic logs and borehole geophysical logs obtained from the pilot borehole, TH&Co will identify aquifer zones for isolated aquifer zone testing. Aquifer zones will be selected for the primary purpose of designing wells that avoid high concentrations of naturally occurring arsenic that have previously been detected in other wells in the area. As per the Project Manual, budget is included to provide inspection of three isolated aquifer zones at SWEX-1 and SWEX-3 and six isolated aquifer zones at SWEX-2. Recommended zone test intervals will be submitted to Dee Jaspar/IRWD for approval prior to testing.

TH&Co will provide inspection of the construction of each isolated aquifer zone test in each pilot borehole to ensure that each zone is completed in accordance with the criteria specified in the Project Manual and in accordance with the final zone test design specified by TH&Co and approved by IRWD. During zone development, it is assumed that Dee Jaspar will provide an inspector to periodically check discharge rates, water quality, and pumping groundwater levels. When the turbidity of the discharge water nears a satisfactory level, it is understood that Dee Jaspar will notify TH&Co to come to the Site, verify the discharge rate and water quality, and collect groundwater samples for laboratory analysis. TH&Co will document and properly store the samples and deliver them to an approved IRWD laboratory for analysis. The cost estimate for this task does not include laboratory analytical costs, which are assumed to be paid directly by IRWD.

TASK 3 – FINAL WELL DESIGN – THREE WELLS

TH&Co will analyze, from each well site, the borehole lithologic logs, geophysical logs, isolated aquifer zone test results, and sieve analyses to determine the final filter pack gradation, screen slot size, and screened intervals for each of the three wells. Soil samples collected from identified aquifer zones will be selected for sieve analysis in order to design the filter pack for the well. Selection of the filter pack will determine the slot size for the well screen. It is assumed for cost estimating purposes that TH&Co will conduct sieve analysis of up to eight samples per pilot borehole (24 total samples). Upon completion of all data analysis, the recommended final well design for each well will be submitted to Dee Jaspar/IRWD via letter report for review and approval. Upon approval, the well design will be submitted to the drilling contractor for procuring well casing and filter pack.



TASK 4 – INSPECTION DURING WELL CONSTRUCTION, DEVELOPMENT AND TESTING – THREE WELLS

Subtask 4.1 – Confirmation of Delivered Well Construction Materials

TH&Co will inspect all well materials for each well prior to and/or during delivery to verify conformance with the Project Manual and final well design. Well casing and screen will be inspected at the manufacturer prior to delivery to the well site. Samples of delivered filter pack will be collected and analyzed (i.e. sieve analysis) to verify conformance with the final well design.

Subtask 4.2 – Inspection during Reamed Borehole Caliper Log – Three Wells

TH&Co will provide full-time inspection at each well site during the caliper log to assess the final borehole diameter prior to well construction.

Subtask 4.3 – Inspection during Well Construction – Three Wells

TH&Co will provide full-time onsite inspection at each well site of the well construction process to ensure that the wells are constructed to the depths and screened intervals specified in the final design letter. Casing and screen tallies will be maintained prior to and during well construction. TH&Co will also track filter pack volumes and record the final sounding depth of the top of the filter pack in the annular space of the well borehole. Cement grout and other sealing materials will be checked for compliance with the Project Manual.

Subtask 4.4 – Inspection during Initial Development by Airlift and Swab – Three Wells

TH&Co will provide inspection during initial well development to ensure that the entire screened interval is swabbed and the discharge is free and clear of drilling mud and suspended sediment prior to pump development. The budget for this task assumes up to 108 hours of Contractor development time per well. In the event that it is determined that additional airlift and swab hours are necessary to fully develop the well, TH&Co can provide inspection for the additional development on a time-and-materials basis at the unit billing rates provided in Table 1.

Subtask 4.5 – Inspection during Development by Pumping – Three Wells

TH&Co will provide inspection during pumping development at each well site to ensure that the discharge is free and clear of suspended sediment and the specific capacity is stable prior to pumping tests. During development pumping, TH&Co will monitor static and pumping



groundwater levels and discharge water quality using a field parameter kit capable of measuring turbidity, pH, electrical conductivity, and temperature. The budget for this task includes rental of the field water quality parameter kit and a groundwater level sounder. The budget for this task assumes up to 60 hours of Contractor pumping development per well. It is assumed that Dee Jaspar will provide an inspector to verify the test pump setting for each well.

Subtask 4.6 – Inspection during Step-Drawdown Pumping Tests – Three Wells

TH&Co will provide full-time onsite inspection during both step-drawdown and constant rate pumping tests for each well. The step-drawdown test will be conducted at three to four different pumping rates (i.e. steps), with a total test duration of nine hours. The test will provide information on well efficiency, specific capacity, and optimum discharge rate. The results of the step-drawdown test will be used to determine the discharge rate for the constant rate test.

Subtask 4.7 – Inspection during 24-hr Constant Rate Pumping Tests – Three Wells

TH&Co will provide full-time onsite inspection at each well site during 24-hr constant rate pumping tests to monitor groundwater levels and discharge rates to ensure representativeness of results. Monitoring will include up to six hours of post-pumping groundwater level recovery monitoring. The constant rate test will provide information for the recommended long-term discharge rate and pump setting for the well. Upon completion of the constant rate test, TH&Co will collect groundwater samples for Title 22 analysis. TH&Co will coordinate with the laboratory to obtain the proper sample containers and arrange delivery to the site. TH&Co will also deliver water quality samples to an approved IRWD laboratory for analysis. The cost estimate for this task does not include laboratory analytical costs, which are assumed to be paid directly by IRWD.

Subtask 4.8 – Inspection during Final Well Alignment and Video Log – Three Wells

TH&Co will provide inspection at each well site during the final alignment survey and completion video survey for each well in accordance with the Project Manual.

It is assumed that Dee Jaspar will provide inspection of final well disinfection and ensure the site is left in satisfactory condition by the drilling contractor upon completion of well testing.

TASK 5 – PREPARE WELL SUMMARY REPORTS – THREE WELLS

TH&Co will prepare three separate summary reports describing the results of the construction and testing of each new well. The reports will include:



- The background and purpose for the well,
- Documentation of the drilling and testing methodology,
- Borehole and geophysical logs,
- Caliper logs,
- A description of the final well design including an “as-built” diagram of the well,
- Analysis and results of pumping tests,
- Groundwater quality results, and
- Recommendations for optimum discharge rate and pump setting.

It is assumed for cost estimating purposes that one draft version of each well completion summary report will be submitted to Dee Jaspar/IRWD in pdf format via email for review and comment. One final version will be submitted after addressing Dee Jaspar/IRWD comments (two hard copies with electronic files in pdf format for entire report; all data tables, logs and graphics will be submitted in native digital formats). The final report will be completed within 30 days of receipt of final water quality data.

TASK 6 – INSPECTION DURING REHABILITATION AND TESTING OF THE EXISTING AGRICULTURAL WELL

This task includes site inspection and data collection during rehabilitation and testing of the existing agricultural well that is in the southeast corner of the Stockdale West site. The cost estimate for Task 6 is provided in Table 6.

Subtask 6.1 – Inspection during Removal of Debris from the Well

Previous attempts to obtain a video log of the existing agricultural well had failed due to the existence of debris in the well. The first task of the drilling contractor will be to remove this debris in order to obtain an initial video of the entire well. TH&Co will provide inspection during the removal of debris from the agricultural well to verify that it has been completely removed and disposed of in accordance with the Project Manual.

Subtask 6.2 – Inspection during Initial Video Log

TH&Co will provide inspection of an initial video of the well to evaluate the condition of the casing and screens, verify the screened intervals, and determine the amount of sediment in the bottom of the well.



Subtask 6.3 – Inspection during Brushing and Bailing

TH&Co will provide full-time onsite inspection during nylon brushing of the blank and screen sections of the well. Upon completion of brushing, accumulated materials will be removed from the sump. The cost estimate for this task assumes 8 hours of brushing and bailing, which should be adequate to provide one downward brushing pass and one upward brushing pass.

Subtask 6.4 – Inspection during Verification Video Log, Alignment Survey and CITM

TH&Co will provide inspection of a verification video of the well to ensure that encrusting materials have been satisfactorily removed from the casing and perforations prior to installation of the test pump and verify that the casing and to note any holes or weaknesses in the casing and screen. Following the verification video, TH&Co will also witness the gyroscopic alignment survey to verify the straightness, alignment and plumbness of the well. TH&Co will also witness the Casing Inspection Thickness Measurement (CITM) to verify the amount of metal the casing and screen has lost over time due to corrosion. The budget for this task assumes that the video log, alignment survey and CITM can be conducted in one day.

Subtask 6.5 – Inspection during Step-Drawdown Test

TH&Co will provide full-time onsite inspection during the step-drawdown pumping test. The step-drawdown test will be conducted at three to four different pumping rates (i.e. steps), with a total test duration of nine hours. The test will provide information on well efficiency, specific capacity, and optimum discharge rate. The results of the step-drawdown test will be used to determine the discharge rate for the constant rate test.

Subtask 6.6 – Inspection during 24-hr Constant Rate Pumping Test

TH&Co will provide full-time onsite inspection during a 24-hr constant rate pumping test to monitor groundwater levels and discharge rates to ensure representativeness of results. Monitoring will include up to six hours of post-pumping groundwater level recovery monitoring. The constant rate test will provide information for the recommended long-term discharge rate and pump setting for the agricultural well. Upon completion of the constant rate test, TH&Co will collect groundwater samples for Title 22 analysis. TH&Co will coordinate with the laboratory to obtain the proper sample containers and arrange delivery to the site. TH&Co will also deliver water quality samples to an approved IRWD laboratory for analysis. The cost estimate for this task does not include laboratory analytical costs, which are assumed to be paid directly by IRWD.



Subtask 6.7 – Preparation of a Report Summarizing the Rehabilitation and Testing

Upon completion of the well rehabilitation and pumping tests, TH&Co will prepare a brief Well Rehabilitation Summary Report that summarizes the procedures and results of the rehabilitation work. The report will include a summary of daily activities including recorded hours of work, materials removed from the well, pumping test results, and groundwater quality laboratory results. Results of the step-drawdown and constant rate pumping tests will be presented in graphs and the data presented in an appendix. The report will include the final specific capacity, recommended long-term discharge rate, and pump setting.

The budget for this task assumes that one draft of the summary report will be submitted to Dee Jaspar/IRWD for review and comment (4 hard copies with electronic files). One final version will be submitted upon addressing comments (4 hard copies with electronic files).

COST ESTIMATE

The total estimated cost to perform the scope of work is \$256,855 as summarized in Table 1. A detailed cost estimate for Task 1 Project Management is provided in Table 2. Detailed costs for inspection of each new SWEX well are provided in Tables 3 through 5. Detailed costs for inspection of rehabilitation and testing of the existing agricultural well are provided in Table 6.

I appreciate the opportunity to prepare this proposed scope of work and cost estimate for Dee Jaspar & Associates. If you have any questions, please call me at (714) 779-3875.

Sincerely,



Thomas Harder, P.G., C.HG.
Principal Hydrogeologist



Dee Jaspar Associates, Inc./
Irvine Ranch Water District

TABLE 1

**Summary Cost Estimate for Hydrogeological Services
Inspection Services for Three Stockdale West Production Wells**

Task(s)	Description	Total Labor	Reimbursable Expenses	Total Cost
1	Project Management	\$ 25,480	\$ 405	\$ 25,885
2A - 5A	Inspection Services for SWEX-1	\$ 58,000	\$ 9,000	\$ 67,000
2B - 5B	Inspection Services for SWEX-2	\$ 87,060	\$ 10,605	\$ 77,665
2C - 5C	Inspection Services for SWEX-3	\$ 58,000	\$ 9,000	\$ 67,000
6	Inspection Services for Existing Agricultural Well	\$ 16,430	\$ 2,875	\$ 19,305
Total Project Cost		\$ 224,970	\$ 31,885	\$ 256,855

**Cost Estimate for Hydrogeological Services
Stockdale West Production Wells - Project Management**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geoscientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
1 Project Management										
	1.1	Review Pre-Construction Contractor Submittals	8	20				\$ 3,560		\$ 3,560
	1.2	Contractor Coordination and Pre-Construction Field Meeting	10	18				\$ 3,680	\$ 180	\$ 3,860
	1.3	Review Contractor Invoices (Assume 8 Invoices)	8	16				\$ 3,120		\$ 3,120
	1.4	Attend Meetings (Assume 6)	54	54				\$ 15,120	\$ 225	\$ 15,345
Subtotal Task 1								\$ 25,480	\$ 405	\$ 25,885

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Production Well SWEX-1**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses	Total Cost
2A Inspection During Pilot Borehole Drilling and Testing - SWEX-1										
	2.1	Inspection during Pilot Borehole Drilling (Part-time) ²	2	2	60			\$ 5,960	\$ 1,205	\$ 7,165
	2.2	Inspection during Geophysical Logging (Full-time)	1		8			\$ 890	\$ 0	\$ 890
	2.3	Inspection during Isolated Aquifer Zone Testing (Assume 3 Zones)	2	4	72			\$ 7,260	\$ 1,410	\$ 8,670
Subtotal Task 2A								\$ 14,110	\$ 2,615	\$ 16,725
3A Final Well Design - SWEX-1										
		Design of the Filter Pack and Screen; Includes Sieve Analysis of up to 8 Formation Samples and Preparation of a Recommended Well Design Letter	12	4	22	6	2	\$ 5,100	\$ 0	\$ 5,100

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Production Well SWEX-1**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses	Total Cost
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4A Inspection During Well Construction, Development and Testing - SWEX-1

	4.1	Confirmation of Delivered Well Construction Materials		2	22			\$ 2,200	\$ 250	\$ 2,450
	4.2	Inspection during Reamed Borehole Caliper Log (Full-time)		1	12			\$ 1,190	\$ 200	\$ 1,390
	4.3	Inspection during Well Construction (Full-time Inspection)	2	2	70			\$ 6,860	\$ 1,200	\$ 8,060
	4.4	Inspection during Initial Development by Airlift and Swab (Part-time Inspection) ³	2	4	56			\$ 5,820	\$ 1,225	\$ 7,045
	4.5	Inspection during Development by Pumping ⁴	2	7	60			\$ 6,510	\$ 1,635	\$ 8,145
	4.6	Inspection during a Step-drawdown Pumping Test (Full-time Inspection) ⁵	1	2	14			\$ 1,650	\$ 955	\$ 2,605
	4.7	Inspection during a 24-hr Constant Rate Pumping Test (Full-time Inspection); Includes Delivery of Water Quality Samples to the Laboratory ⁶	2	4	40			\$ 4,380	\$ 715	\$ 5,095
	4.8	Inspection of Final Well Alignment and Video Log			14			\$ 1,260	\$ 205	\$ 1,465
		Subtotal Task 4A						\$ 29,870	\$ 6,385	\$ 36,255

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Production Well SWEX-1**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
5A Prepare Well Summary Report - SWEX-1										
		Prepare a Well Summary Report for Well 1 ⁷	12		48	24	8	\$ 8,920		\$ 8,920
Total Tasks 2A through 5A								\$ 58,000	\$ 9,000	\$ 67,000

Notes:

- ¹ Reimbursable expenses include lodging/meals, driving mileage, monitoring equipment costs, and report reproduction and mailing costs as detailed below. Costs do not include drilling contractor, geophysical logging, or laboratory costs.
- ² Costs for inspection during drilling, well construction, development and testing are based on a 970 ft deep pilot hole drilled at an average drilling rate of 10-ft/hr and assume that the work proceeds with no delays associated with rig breakdowns or other driller-related delays. Additional inspection time may be necessary to accommodate slow drilling conditions and/or driller delays will be billed on a time-and-materials basis at the unit rates specified in this table.
- ³ Inspection time is based on 108 hours of Contractor development time. Additional inspection time necessary if initial development exceeds 108 hours will be billed on a time-and-materials basis at the unit rates specified.
- ⁴ Inspection time for pump development is based on 60 hours of Contractor development time. Additional inspection time may be necessary if pump development exceeds 60 hours will be billed on a time-and-materials basis at the unit rates specified. Costs include water quality monitoring equipment rental (one week at \$405/wk)
- ⁶ Costs include water level sounder rental (one week at \$165/wk) and three pressure transducer rentals (\$165/transducer/week). One week of rental includes use during and after the 24-hr constant rate test.
- ⁶ Does not include laboratory costs for Title 22 analysis
- ⁷ Includes preparation of one draft version of the report (electronic submittal only) and one final version of the Well Summary Report (two hard copies with electronic files).

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Production Well SWEX-2**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
2B Inspection During Pilot Borehole Drilling and Testing - SWEX-2										
	2.1	Inspection during Pilot Borehole Drilling (Part-time) ²	2	2	80			\$ 7,760	\$ 1,400	\$ 9,160
	2.2	Inspection during Geophysical Logging (Full-time)	1		8			\$ 890	\$ 0	\$ 890
	2.3	Inspection during Isolated Aquifer Zone Testing (Assume 6 Zones)	4	8	144			\$ 14,520	\$ 2,820	\$ 17,340
Subtotal Task 2B								\$ 23,170	\$ 4,220	\$ 27,390
3B Final Well Design - SWEX-2										
		Design of the Filter Pack and Screen; Includes Sieve Analysis of up to 8 Formation Samples and Preparation of a Recommended Well Design Letter	12	4	22	6	2	\$ 5,100	\$ 0	\$ 5,100

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Production Well SWEX-2**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
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4B Inspection During Well Construction, Development and Testing - SWEX-2

	4.1	Confirmation of Delivered Well Construction Materials		2	22			\$ 2,200	\$ 250	\$ 2,450
	4.2	Inspection during Reamed Borahole Caliper Log (Full-time)		1	12			\$ 1,190	\$ 200	\$ 1,390
	4.3	Inspection during Well Construction (Casing, Filter Pack and Annular Seals; Full-time Inspection)	2	2	70			\$ 6,860	\$ 1,200	\$ 8,060
	4.4	Inspection during Initial Development by Airlift and Swab (Part-time Inspection) ³	2	4	56			\$ 5,820	\$ 1,225	\$ 7,045
	4.5	Inspection during Development by Pumping ⁴	2	7	60			\$ 6,510	\$ 1,635	\$ 8,145
	4.6	Inspection during a Step-drawdown Pumping Test (Full-time Inspection) ⁵	1	2	14			\$ 1,650	\$ 955	\$ 2,605
	4.7	Inspection during a 24-hr Constant Rate Pumping Test (Full-time Inspection); Includes Delivery of Water Quality Samples to the Laboratory ⁶	2	4	40			\$ 4,380	\$ 715	\$ 5,095
	4.8	Inspection of Final Well Alignment and Video Log			14			\$ 1,260	\$ 205	\$ 1,465
		Subtotal Task 4B						\$ 29,870	\$ 6,385	\$ 36,255

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Production Well SWEX-2**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$85/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
5B Prepare Well Summary Report - SWEX-2										
		Prepare a Well Summary Report for Well 2 ⁷	12		48	24	8	\$ 8,920		\$ 8,920
Total Tasks 2B through 5B								\$ 67,060	\$ 10,605	\$ 77,665

Notes:

- 1 Reimbursable expenses include lodging/meals, driving mileage, monitoring equipment costs, and report reproduction and mailing costs as detailed below. Costs do not include drilling contractor, geophysical logging, or laboratory costs.
- 2 Costs for inspection during drilling, well construction, development and testing are based on a 1,400 ft deep pilot hole drilled at an average drilling rate of 10-ft/hr and assume that the work proceeds with no delays associated with rig breakdowns or other driller-related delays. Additional inspection time may be necessary to accommodate slow drilling conditions and/or driller delays will be billed on a time-and-materials basis at the unit rates specified in this table.
- 3 Inspection time is based on 108 hours of Contractor development time. Additional inspection time necessary if initial development exceeds 108 hours will be billed on a time-and-materials basis at the unit rates specified.
- 4 Inspection time for pump development is based on 60 hours of Contractor development time. Additional inspection time may be necessary if pump development exceeds 60 hours will be billed on a time-and-materials basis at the unit rates specified. Costs include water quality monitoring equipment rental (one week at \$405/wk)
- 5 Costs include water level sounder rental (one week at \$165/wk) and three pressure transducer rentals (\$165/transducer/week). One week of rental includes use during and after the 24-hr constant rate test.
- 6 Does not include laboratory costs for Title 22 analysis
- 7 Includes preparation of one draft version of the report (electronic submittal only) and one final version of the Well Summary Report (two hard copies with electronic files).

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Production Well SWEX-3**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
2C Inspection During Pilot Borehole Drilling and Testing - SWEX-3										
	2.1	Inspection during Pilot Borehole Drilling (Part-time) ²	2	2	60			\$ 5,960	\$ 1,205	\$ 7,165
	2.2	Inspection during Geophysical Logging (Full-time)	1		8			\$ 890	\$ 0	\$ 890
	2.3	Inspection during Isolated Aquifer Zone Testing (Assume 3 Zones)	2	4	72			\$ 7,260	\$ 1,410	\$ 8,670
Subtotal Task 2C								\$ 14,110	\$ 2,615	\$ 16,725
3C Final Well Design - SWEX-3										
		Design of the Filter Pack and Screen; Includes Sieve Analysis of up to 8 Formation Samples and Preparation of a Recommended Well Design Letter	12	4	22	6	2	\$ 5,100	\$ 0	\$ 5,100

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Production Well SWEX-3**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
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4C Inspection During Well Construction, Development and Testing - SWEX-3

	4.1	Confirmation of Delivered Well Construction Materials		2	22			\$ 2,200	\$ 250	\$ 2,450	
	4.2	Inspection during Reamed Borehole Caliper Log (Full-time)		1	12			\$ 1,190	\$ 200	\$ 1,390	
	4.3	Inspection during Well Construction (Casing, Filter Pack and Annular Seals: Full-time Inspection)	2	2	70			\$ 6,860	\$ 1,200	\$ 8,060	
	4.4	Inspection during Initial Development by Airlift and Swab (Part-time Inspection) ³	2	4	56			\$ 5,820	\$ 1,225	\$ 7,045	
	4.5	Inspection during Development by Pumping ⁴	2	7	60			\$ 5,510	\$ 1,635	\$ 8,145	
	4.6	Inspection during a Step-drawdown Pumping Test (Full-time Inspection) ⁵	1	2	14			\$ 1,650	\$ 955	\$ 2,605	
	4.7	Inspection during a 24-hr Constant Rate Pumping Test (Full-time Inspection); Includes Delivery of Water Quality Samples to the Laboratory ⁶	2	4	40			\$ 4,360	\$ 715	\$ 5,095	
	4.8	Inspection of Final Well Alignment and Video Log			14			\$ 1,260	\$ 205	\$ 1,465	
								Subtotal Task 4C	\$ 29,870	\$ 6,385	\$ 36,255

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Production Well SWEX-3**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
5C Prepare Well Summary Report - SWEX-3										
		Prepare a Well Summary Report for Well 3 ⁷	12		48	24	8	\$ 8,920		\$ 8,920
Total Tasks 2C through 5C								\$ 68,000	\$ 9,000	\$ 67,000

Notes:

- ¹ Reimbursable expenses include lodging/meals, driving mileage, monitoring equipment costs, and report reproduction and mailing costs as detailed below. Costs do not include drilling contractor, geophysical logging, or laboratory costs.
- ² Costs for inspection during drilling, well construction, development and testing are based on a 970 ft deep pilot hole drilled at an average drilling rate of 10-ft/hr and assume that the work proceeds with no delays associated with rig breakdowns or other driller-related delays. Additional inspection time necessary to accommodate slow drilling conditions and/or driller delays will be billed on a time-and-materials basis at the unit rates specified in this table.
- ³ Inspection time is based on 108 hours of Contractor development time. Additional inspection time necessary if initial development exceeds 108 hours will be billed on a time-and-materials basis at the unit rates specified.
- ⁴ Inspection time for pump development is based on 60 hours of Contractor development time. Additional inspection time necessary if pump development exceeds 60 hours will be billed on a time-and-materials basis at the unit rates specified. Costs include water quality monitoring equipment rental (one week at \$405/wk)
- ⁵ Costs include water level sounder rental (one week at \$165/wk) and one pressure transducer rentals (\$165/transducer/week). One week of rental includes use during and after the 24-hr constant rate test.
- ⁶ Does not include laboratory costs for Title 22 analysis
- ⁷ Includes preparation of one draft version of the report (electronic submittal only) and one final version of the report (two hard copies with electronic files)

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Existing Agricultural Well**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses ¹	Total Cost
6 Inspection During Rehabilitation and Testing of the Existing Agricultural Well										
	6.1	Inspection during removal of debris from the well		1	12			\$ 1,190	\$ 200	\$ 1,390
	6.2	Inspection during initial video log	1		8			\$ 890	\$ 200	\$ 1,090
	6.3	Inspection during brushing and balling		1	9			\$ 920	\$ 200	\$ 1,120
	6.4	Inspection during verification video log, gyroscopic alignment survey and CITM	2		12			\$ 1,420	\$ 605	\$ 2,025
	6.5	Inspection during a Step-drawdown Pumping Test (Full-time Inspection) ²	1	2	14			\$ 1,650	\$ 955	\$ 2,605
	6.6	Inspection during a 24-hr Constant Rate Pumping Test (Full-time Inspection); Includes Delivery of Water Quality Samples to the Laboratory ³	2	4	40			\$ 4,380	\$ 715	\$ 5,095
	6.7	Prepare a report summarizing the rehabilitation and testing ⁴	6	8	32	8	8	\$ 5,980	\$ 0	\$ 5,980
		Subtotal Task 6						\$ 16,430	\$ 2,875	\$ 19,305

**Cost Estimate for Hydrogeological Services
Inspection Services for Stockdale West Existing Agricultural Well**

Task	Sub-Task	Description	Principal Hydro-geologist \$170/hr	Project Geo-scientist \$110/hr	Staff Hydro-geologist \$90/hr	Graphics \$85/hr	Clerical \$65/hr	Total Labor	Reimbursable Expenses	Total Cost
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Notes:

- 1 Reimbursable expenses include lodging/meals, driving mileage, monitoring equipment costs, and report reproduction and mailing costs as detailed below. Costs do not include drilling contractor, geophysical logging, or laboratory costs.
- 2 Costs include water level sounder rental (one week at \$165/wk) and one pressure transducer rentals (\$165/transducer/week). One week of rental includes use during and after the 24-hr constant rate test.
- 3 Does not include laboratory costs for Title 22 analysis
- 4 Includes preparation of one draft version of the report (electronic submittal only) and one final version of the report (two hard copies with electronic files).



January 7, 2016

Joseph McGehee, PE
 Irvine Ranch Water District
 15600 Sand Canyon Ave
 Irvine, California 92618

SUBJECT: Scope of Services / Fee Stockdale West Integrated Project, Construction Phase Services

Mr. McGehee:

Please find attached a copy of the proposed Scope of Work to provide Construction Phase Services for the Stockdale West Integrated Water Project. The following Scope of Services is based on the requested services by the Irvine Ranch Water District as follows:

Project Meetings / Site Visits During Construction –

- Pre-Construction Conference – URS will attend one (1) Pre-Construction Conference to be located at the Stockdale West Site.

Contractor Requests for Information –

- URS will provide clarifications to the Drawings and Construction Manual for work performed by URS in a formal response. All RFI's will be responded in accordance with the IRWD General Provisions for this project. For the purposes of budgeting purposes, URS will respond to 20 Contractor RFI.

Minor Plan Revisions –

- URS will perform minor drawing revisions to the conformed construction documents to provide clarifications of the intent of the drawings. A total of 14 hours have been allocated to this effort.

Materials Submittals / Shop Drawing Review –

URS will provide Materials Submittals / Shop Drawing Review for the following the submittals:

Submittal	Content	Reference Specification
Aggregates	Material & Testing Review	Sections 02220 & 02223
Fences	Material Review	Section 02820
Concrete	Concrete Design Mix	Section 03300
Reinforcing Steel	Steel Layouts and Shop Drawings	Section 03201
Structural Steel	Steel Layouts and Shop Drawings	Section 05120
Louvers	Material & Shop Drawing Review	Section 08910



Coatings	Material Review	Section 09900
Deep Well Pump	Material & Testing Review	Section 11290
Deep Well Pump Anchorage	Material and Calculations Review	Section 11290
Pre-Engineering Metal Canopy	Material and Shop Drawing Review	Section 13122
Pipe Supports	Material Review	Section 15006
Stainless Steel Pipe and Valves	Material & Equipment Review	Sections 15065 & 15100
Air Release / Vacuum Release	Material & Equipment Review	Section 15089
Valves	Material & Equipment Review	Section 15100 & 15121
Flow Meters	Material & Equipment Review	Section 15150
General Electric Requirements	Material Review	Section 16010
Electrical Cabinets and Enclosures	Material Review	Section 16135
Electric Motors	Material Review	Section 16150
Motor Control Center	Material and Equipment	Section 16155 & 16443
Electrical Lighting and Control	Material Review	Section 16500
Solar Lighting	Material & Equipment Review	Section 16501
Security Cameras	Material & Equipment Review	Section 16502
General Instrumentation	Material, Equipment and Layout Review	Section 17000
Instrumentation and Control	Material, Equipment and Layout Review	Section 17200
Misc Instrumentation	Material and Equipment Review	Section 17200
Wireless Remote	Material & Equipment Review	Section 17423
MCC O&M	Review	Section 16155
Well Pump O&M	Review	Section 11290
Instrumentation O&M	Review	Varies

Record Drawings –

URS shall receive redline drawing reflecting as-built conditions of the final project at the conclusion of construction of the project. Upon receipt of the redlines, URS will revise the record drawings and submit As-built drawings, electronic files and ACAD drawing for the District's use and filing.



Fees –

Fees shall be paid in accordance with the following fee schedule on a time and material basis.

Should you have any questions, please me directly at 714-352-1528.

A handwritten signature in black ink, consisting of a large, stylized 'S' followed by a smaller 'O' and a 'D'.

Engineering Design Manager
714-352-1528



Labor Schedule and Fees

Task Description	Personnel Hours						Budget			
	Project Manager	Sr. Project Engineer	Project Engineer	Staff Engineer	Designer	Administrative Services	Total Hours	Labor	Non-Labor Costs	Total
	\$ 185.00	\$ 150.00	\$ 130.00	\$ 75.00	\$ 85.00	\$ 60.00				
Project Meetings / Site Visits										
Pre-Construction Conference	8	8					16	\$ 2,680.00	\$ 180.40	\$ 2,860.40
Construction Meetings (8 meetings)	0	0					0	\$ -	\$ -	\$ -
Site Visits during Construction (2 visits)	0	0	0	0			0	\$ -	\$ -	\$ -
Subtotal	0	0	0	0	0	0	0	\$ 2,680.00	\$ 180.40	\$ 2,860.40
Contractor Requests for Information										
Response Preparation to Contractor Requests for Information (20)	5	5	20				30	\$ 4,275.00		\$ 4,275.00
Subtotal	5	5	20	0	0	0	30	\$ 4,275.00	\$ -	\$ 4,275.00
Minor Plan Revisions										
Develop minor plan revisions during construction		2		2	10		14	\$ 1,300.00		\$ 1,300.00
Subtotal	0	2	0	2	10	0	14	\$ 1,300.00	\$ -	\$ 1,300.00
Materials Submittals / Shop Drawing Review										
Materials Submittals / Shop Drawing Review	42	42	146				230	\$ 33,050.00		\$ 33,050.00
Subtotal	42	42	146	0	0	0	230	\$ 33,050.00	\$ -	\$ 33,050.00
Record Drawing										
As-Built Drawings	4	4	10		40		58	\$ 6,040.00		\$ 6,040.00
Subtotal	4	4	10	0	40	0	58	\$ 6,040.00	\$ -	\$ 6,040.00
Totals	51	53	176	2	50	0	332	\$ 47,345.00	\$ 180.40	\$ 47,525.40



Professional Services Hourly Rates:

<u>Personnel Category</u>	<u>Hourly Rate</u>
Project Manager	\$185.00
Senior Project Engineer.....	\$150.00
Project Engineer	\$130.00
Staff Engineer	\$ 75.00
CADD Designer	\$ 60.00
Administrative Support	\$ 76.00

Direct Project Expenses:

Other Reproduction (8 1/2 x 11 / 11 x 17 Color)	\$1.15 / \$1.50 per page
Plan Sheet Printing – In house Bond / Vellum / Mylar.....	\$3.00 / \$4.00 / \$7.00 per sheet
Subcontracted Services / Reproduction	Cost
Subcontracted Services or Subconsultant Services	Cost
Auto Mileage for Construction Phase Services.....	\$0.55 per mile
Travel & Subsistence (other than mileage).....	Cost
Miscellaneous Materials	Cost plus 15%

If authorized by the Client, an overtime premium multiplier of 1.5 may be applied to the billing rate of hourly personnel who work overtime in order to meet a deadline which cannot be met during normal hours.

Applicable sales tax, if any, will be added to these rates. Invoices will be rendered monthly. Payment is due upon presentation. A late payment finance charge of 1.5% per month (but not exceeding the maximum rate allowable by law) will be applied to any unpaid balance commencing 30 days after the date of the original invoice.

FEE SCHEDULE IS SUBJECT TO CHANGE ANNUALLY.



DEE JASPAR & ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
2730 UNICORN ROAD, BLDG A
BAKERSFIELD, CA 93308
PHONE (661) 393-4796
FAX (661) 393-4799

January 12, 2016

Joseph McGehee, PE
c/o Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618

RE: Stockdale West Integrated Water Banking Project

Mr. McGehee,

Attached is an itemized budget proposal for the above referenced project as requested. Cost proposals have been provided for assistance during the bidding process and construction inspection and management for the project.

The bid assistance scope of work will involve preparation of an agenda for the pre-bid job walks, attending and facilitating the job walks, and responding to bid questions. The cost proposal for this task is \$2,919.00.

The construction management and inspection work is based on an eighteen-month construction duration. The work will consist of attending and facilitating the preconstruction meeting, preparing for and facilitating weekly project meetings, facilitating and attending special meetings and factory inspections, and preparing for and facilitating the pre-commissioning meeting. The cost proposal for project meetings is \$57,557.00.

The work for submittal and shop drawing reviews will involve processing and tracking all project submittals, distributing submittals to the project participants as necessary, receiving and compiling all responses and handling correspondence with the General Contractor. DJA will perform submittal reviews for the Stockdale West turnout facility, Thomas Harder & Associates will perform submittal reviews for the well construction aspect, and URS will perform submittal reviews for the well equipping and conveyance pipeline portion of the project. The cost proposal for this task is \$49,640.00.

The work for construction inspection and quality control will include providing construction staking for well pad earthwork, well hole locating, pipeline layout, and structure layout. DJA will perform daily inspection and issue daily inspection reports to IRWD as well as interfacing with Thomas Harder & Associates during the well construction process and assisting where necessary. Thomas Harder & Associates will oversee and inspect the well drilling, construction,

development, and rehabilitation work. DJA will monitor construction safety, will monitor construction schedule, ensure that the installed materials for the entire project conform to the drawings and specifications, that the construction work is done properly, will perform concrete testing and compaction testing, will work to resolve construction related issues, and will perform project start-up, testing, and trouble-shooting. The cost proposal for this task is \$609,032.00.

The work for maintaining construction records will include tracking and maintaining project requests for information, project change orders, meeting minutes, construction schedules, test results, O&M manuals, and reviewing and approving progress pay estimates. The cost proposal for this task is \$29,440.00.

The work related to requests for information will include the distribution of such requests as necessary, compiling and providing a formal response to the Contractor, and handling correspondence with the General Contractor. The cost proposal for this task is \$11,525.00.

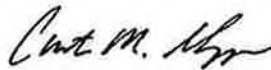
The work related to proposed change orders will include reviewing the change order and confirming the validity of such change order, the distribution of such requests as necessary, compiling and providing a formal response to the Contractor, and handling correspondence with the General Contractor. The cost proposal for this task is \$7,124.00.

The work for project close-out will include coordinating punch-lists, final inspections, project acceptance, providing as-built drawings, O&M manuals, certifications, final releases, final payments, and a letter of substantial completion. The cost proposal for this task is \$16,540.00.

In addition, a proposal amount of \$50,000.00 has been included for special services and serves as a budget item for on-call tasks added to the above scope of work.

The total construction management proposal is \$833,777.00 and will be billed on a time and material basis for the actual work performed. Please let me know if you have any questions, concerns, or would like to discuss revisions to the scope of work or estimate. Thank you for the opportunity to serve the District on this project.

Thanks,



Curtis M. Skaggs, PE

Dee Jasper Associates, Inc.
Consulting Civil Engineers

Inyue Ranch Water District
Stockdale West Recovery Project
Construction of Wells and Wellheads, Pipelines, and Appurtenances - Project Number 11645
Construction Management Services Estimate December 7, 2015

	Principal Engineer	Registered Engineer / Project Manager	Staff Engineer	Surveyor	Survey Clerk	Distribution	Secretary	Maintenance	Laboratory & Field Test, Chemical Testing, & Water Quality Testing	Turnout Water & Associated	Units	Residual Power Systems	Total
	Estimated Time (hrs)	Estimated Time (hrs)	Estimated Time (hrs)	Estimated Time (hrs)	Estimated Time (hrs)	Estimated Time (hrs)	Estimated Time (hrs)	Estimated Cost (\$)	Estimated Cost (\$)	Estimated Cost (\$)	Estimated Cost (\$)	Estimated Cost (\$)	
Pre-Construction													
Two pre-bid job walk meetings at 4 hours each. Prepare pre-bid agenda.		12	10										\$2,919
Preconstruction meeting including preparation of agenda and meeting minutes		6	4										\$4,209
Weekly project meetings based on an 80 week construction schedule. Include preparation of meeting agenda, distribution, and preparation of meeting minutes		160	160								\$2,865		\$43,600
Factory inspections, testing, and sampling meetings		16	24									\$1,600	\$6,724
Pre-commissioning meeting and preparations.		8	16										\$3,024
Design/Construction													
Review Plans and Specs. for constructability. Process shop drawings and address RFIs. Prepare a Submittal Log to track all submittals.		50	80										\$49,640
D.A.S.A.T. & C.C. Evaluate well Related Construction Schedule and Contractor's Progress. Coordinate and schedule survey & testing, & inspections by appropriate authorities											\$33,090		\$49,640
Assume 3 weeks for well pad earthwork. This will involve daily site inspections, safety monitoring, project coordination, construction quality control, construction testing, and final inspection.		20	90	2	12	4		\$15,000					\$31,884
Assume 30 weeks for well construction only. This will involve daily site visit, correspondence with Tom Harder, and preparation of daily inspection reports. Tom Harder to provide inspection during pilot hole drilling and testing, final well design, inspection during well construction, development, and testing and final reporting.	8	90	300	2	8			\$15,000	\$237,950				\$304,147
Assume 2 weeks for the rehabilitation and testing of the existing agricultural well.		15	20						\$19,305				\$23,967
Assume 40 weeks for well, pipeline and electrical construction. This will involve daily site inspections, safety monitoring, project coordination, construction schedule monitoring, construction quality control, factory inspections, progress payment review and approval, and final inspection/commissioning.	6	140	600	2	16	4		\$25,000		\$5,000	\$5,000		\$154,007
Assume 24 weeks for Stockdale West Turnout Facility construction. This will involve daily site inspections, safety monitoring, project coordination, construction schedule monitoring, construction quality control, factory inspections, progress payment review and approval, and final inspection/commissioning.	8	80	480	2	16	4		\$16,800			\$5,000		\$95,027
D.A.S. Evaluate Construction Progress													
Maintain all construction records including but not limited to, progress payment review and approval, submittals, inspection reports, meeting minutes, correspondence with project parties, construction schedules, RFIs, change orders, test results, training manuals, O&M manuals, record drawings, and photo logs.		160	40										\$23,440
RFI/Change Order Responses													
Prepare an RFI Log. Respond with the Design Engineer, IRWD, and Contractor. Respond to RFIs within 7 days.		20	20								\$1,300		\$23,440
RFI/Change Order Responses													
Review proposed change orders and recommend approval or disapproval. Schedule time for meetings with the District on special cases of Contractor/IRWD disagreements.		16	24								\$4,275	\$2,000	\$11,525
RFI/Change Order Responses													
Review the prepared as-builts and coordinate corrections with Contractor, submit to IRWD for review and comment, assemble daily Field Reports, coordinate final inspection, punch lists, acceptance, testing, and start up. Provide project O&M manuals, as-builts, approved submittals, and project certifications. Provide general assistance to IRWD to coordinate and resolve field charges and other minor issues.		40	40									\$2,000	\$7,124
RFI/Change Order Responses													
Additional Construction Coordination. DJA will provide additional construction coordination, general engineering services and construction management support to IRWD as requested. This includes answering general IRWD/Contractor inquiries, coordination with IRWD, Contractor, local agencies, URS, TRS, and other general support as requested by IRWD.								\$50,000			\$6,040		\$16,540
Subtotal: Construction management and inspection services	24	634	2108	8	52	12	0	\$50,000	\$71,800	\$256,855	\$57,530	\$17,200	\$833,777
Total Hours Estimated:	24	634	2108	8	52	12	0						
Total Engineering Estimate:	\$4,536	\$122,985	\$243,474	\$1,082	\$12,368	\$1,134	\$0	\$50,000	\$71,800	\$256,856	\$57,530	\$17,200	\$833,777

EXHIBIT "B"

Bid Opening: February 25, 2016 @ 1:00 p m

Irvine Ranch Water District Bid Summary For
 Stockdale West Integrated Water Banking Project
 Project Number 11645 (3766)

Entered By: JK Irey

Item No.	Description	Engineer's Estimate		1		2		3		4			
				W.M. Lyles		Specialty Construction, Inc.		Pacific Hydrotech		Steve P. Rados, Inc.			
				Temecula, CA		San Luis Obispo, CA		Perris, CA		Santa Ana, CA			
Qty	Unit	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount				
Bid Schedule A- General													
1	Mobilization, demobilization & misc work	1	LS	\$140,728.59	\$140,728.59	\$108,700.00	\$108,700.00	\$310,000.00	\$310,000.00	\$258,000.00	\$258,000.00	\$360,000.00	\$360,000.00
2	Site demolition	1	LS	\$17,400.00	\$17,400.00	\$25,900.00	\$25,900.00	\$8,000.00	\$8,000.00	\$8,300.00	\$8,300.00	\$15,000.00	\$15,000.00
3	Construct elevated well pads at each of the three wells sites	1	LS	\$75,000.00	\$75,000.00	\$370,300.00	\$370,300.00	\$200,000.00	\$200,000.00	\$382,100.00	\$382,100.00	\$475,000.00	\$475,000.00
4	Furnish and install erosion control measures	1	LS	\$50,000.00	\$50,000.00	\$32,400.00	\$32,400.00	\$82,000.00	\$82,000.00	\$45,000.00	\$45,000.00	\$35,000.00	\$35,000.00
5	Mitigation Monitoring	1	LS	\$5,000.00	\$5,000.00	\$17,000.00	\$17,000.00	\$13,500.00	\$13,500.00	\$13,700.00	\$13,700.00	\$5,000.00	\$5,000.00
6	Trench Safety Measures	1	LS	\$10,000.00	\$10,000.00	\$1,100.00	\$1,100.00	\$28,000.00	\$28,000.00	\$600.00	\$600.00	\$20,000.00	\$20,000.00
7	Startup Testing and Training	1	LS	\$15,000.00	\$15,000.00	\$49,900.00	\$49,900.00	\$37,000.00	\$37,000.00	\$10,900.00	\$10,900.00	\$10,000.00	\$10,000.00
8	Operation and Maintenance Manuals	1	LS	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
9	Final Record Drawings	1	LS	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
Base Bid Subtotal- Schedule A				\$328,128.59		\$620,300.00		\$693,500.00		\$733,600.00		\$935,000.00	
Bid Schedule B- Drilling and Construction of Extraction Wells													
10	Mobilization, demobilization & misc work	1	LS	\$225,000.00	\$225,000.00	\$81,500.00	\$81,500.00	\$80,500.00	\$80,500.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00
11	Transport and dispose of drill cuttings offsite	1	LS	\$15,000.00	\$15,000.00	\$13,800.00	\$13,800.00	\$13,600.00	\$13,600.00	\$14,800.00	\$14,800.00	\$306,000.00	\$306,000.00
12	Three 20,000-gallon temporary water storage tanks and discharge piping	1	LS	\$45,000.00	\$45,000.00	\$26,500.00	\$26,500.00	\$26,000.00	\$26,000.00	\$28,500.00	\$28,500.00	\$75,000.00	\$75,000.00
13	Drill 54-inch minimum diameter surface casing/sanitary seal borehole	150	LF	\$550.00	\$82,500.00	\$616.90	\$92,535.00	\$610.00	\$91,500.00	\$664.00	\$99,600.00	\$1,500.00	\$225,000.00
14	Drill 17.5-inch minimum diameter pilot borehole from 50 ft to 970 ft bgs	2,760	LF	\$80.00	\$220,800.00	\$110.20	\$304,152.00	\$109.00	\$300,840.00	\$119.00	\$328,440.00	\$150.00	\$414,000.00
15	Drill 17.5-inch minimum diameter pilot borehole from 970 ft to 1,400 ft bgs	430	LF	\$105.00	\$45,150.00	\$110.20	\$47,386.00	\$109.00	\$46,870.00	\$119.00	\$51,170.00	\$150.00	\$64,500.00
16	Conduct downhole geophysical surveys and alignment/deviation survey	1	LS	\$16,500.00	\$16,500.00	\$39,700.00	\$39,700.00	\$39,000.00	\$39,000.00	\$42,659.00	\$42,659.00	\$15,000.00	\$15,000.00
17	Conduct isolated aquifer zone test	9	EA	\$20,000.00	\$180,000.00	\$22,032.00	\$198,288.00	\$22,000.00	\$198,000.00	\$23,700.00	\$213,300.00	\$20,000.00	\$180,000.00
18	Conduct deep isolated aquifer zone test below 800 ft bgs	3	EA	\$30,000.00	\$90,000.00	\$33,048.00	\$99,144.00	\$32,500.00	\$97,500.00	\$35,549.00	\$106,647.00	\$35,000.00	\$105,000.00
19	Enlarge pilot borehole to 36-inch diameter from 50 ft to 330 ft bgs	840	LF	\$70.00	\$58,800.00	\$110.20	\$92,568.00	\$109.00	\$91,560.00	\$119.00	\$99,960.00	\$150.00	\$126,000.00
20	Enlarge pilot borehole to 36-inch diameter from 330 ft to 970 ft bgs	1,920	LF	\$70.00	\$134,400.00	\$99.10	\$190,272.00	\$98.00	\$188,160.00	\$107.00	\$205,440.00	\$120.00	\$230,400.00
21	Conduct alignment/deviation tests in enlarged borehole	3	EA	\$2,500.00	\$7,500.00	\$5,508.00	\$16,524.00	\$5,500.00	\$16,500.00	\$5,925.00	\$17,775.00	\$2,500.00	\$7,500.00
22	Conduct a caliper survey of enlarged borehole	3	EA	\$2,500.00	\$7,500.00	\$5,508.00	\$16,524.00	\$5,500.00	\$16,500.00	\$5,925.00	\$17,775.00	\$2,500.00	\$7,500.00
23	Furnish and install 20-inch I.D. by 5/16-inch wall HSLA steel blank well casing	1,272	LF	\$204.00	\$259,488.00	\$203.80	\$259,233.60	\$201.00	\$255,672.00	\$219.00	\$278,568.00	\$250.00	\$318,000.00
24	Furnish and install HSLA steel blank well casing with reinforced "Bull Nose"	3	EA	\$4,480.00	\$13,440.00	\$4,406.00	\$13,218.00	\$4,400.00	\$13,200.00	\$4,740.00	\$14,220.00	\$6,000.00	\$18,000.00
25	Furnish and install 20-inch by 5/16-inch wall Flu Fulo louvered, HSLA steel well screen	1,530	LF	\$287.00	\$439,110.00	\$295.20	\$451,656.00	\$292.00	\$446,760.00	\$318.00	\$486,540.00	\$305.00	\$466,650.00
26	Furnish and install 3-inch I.D. schedule 40 mild steel sounding/camera access tube	1,956	LF	\$25.00	\$48,900.00	\$46.00	\$89,976.00	\$33.00	\$64,548.00	\$36.00	\$70,416.00	\$30.00	\$58,680.00
27	Furnish and install 3-inch I.D. schedule 40 mild steel gravel feed tube	957	LF	\$20.00	\$19,140.00	\$38.10	\$36,461.70	\$33.00	\$31,581.00	\$36.00	\$34,452.00	\$15.00	\$14,355.00
28	Furnish and install gravel pack in borehole annulus	2,010	LF	\$65.00	\$130,650.00	\$222.50	\$447,225.00	\$220.00	\$442,200.00	\$239.00	\$480,390.00	\$95.00	\$190,950.00
29	Furnish and install 10 3-sack sand-cement grout upper annular seal	900	LF	\$65.00	\$58,500.00	\$165.20	\$148,680.00	\$163.00	\$146,700.00	\$178.00	\$160,200.00	\$85.00	\$76,500.00
30	Perform initial well development	324	HRS	\$350.00	\$113,400.00	\$275.40	\$89,229.60	\$272.00	\$88,128.00	\$296.00	\$95,904.00	\$375.00	\$121,500.00
31	Provide chlorine solution for chemical development of the well	765	GAL	\$100.00	\$76,500.00	\$26.00	\$19,890.00	\$26.00	\$19,890.00	\$28.00	\$21,420.00	\$10.00	\$7,650.00
32	Provide polymer dispersant for chemical development of the well	115	GAL	\$120.00	\$13,800.00	\$110.00	\$12,650.00	\$109.00	\$12,535.00	\$119.00	\$13,685.00	\$80.00	\$9,200.00
33	Mobilize, install, and demobilize test pumping equipment in newly completed wells	3	EA	\$20,000.00	\$60,000.00	\$22,913.00	\$68,739.00	\$22,000.00	\$66,000.00	\$24,647.00	\$73,941.00	\$22,500.00	\$67,500.00
34	Conduct final development by pumping and surging	180	HRS	\$600.00	\$108,000.00	\$496.00	\$89,280.00	\$490.00	\$88,200.00	\$533.00	\$95,940.00	\$375.00	\$67,500.00
35	Conduct step-drawdown pumping test in newly completed wells	24	HRS	\$600.00	\$14,400.00	\$496.00	\$11,904.00	\$490.00	\$11,760.00	\$533.00	\$12,792.00	\$375.00	\$9,000.00
36	Conduct constant-rate pumping test in newly completed wells	84	HRS	\$600.00	\$50,400.00	\$496.00	\$41,664.00	\$490.00	\$41,160.00	\$533.00	\$44,772.00	\$375.00	\$31,500.00
37	Conduct a dynamic flow meter survey	3	EA	\$2,500.00	\$7,500.00	\$8,813.00	\$26,439.00	\$8,700.00	\$26,100.00	\$9,480.00	\$28,440.00	\$5,000.00	\$15,000.00
38	Conduct a color video camera survey	3	EA	\$2,500.00	\$7,500.00	\$2,203.00	\$6,609.00	\$2,200.00	\$6,600.00	\$2,370.00	\$7,110.00	\$2,500.00	\$7,500.00
39	Conduct well alignment/deviation test in newly completed wells	3	EA	\$2,500.00	\$7,500.00	\$4,406.00	\$13,218.00	\$4,350.00	\$13,050.00	\$4,740.00	\$14,220.00	\$3,500.00	\$10,500.00
40	Conduct final well disinfection in newly completed wells	3	EA	\$5,500.00	\$16,500.00	\$3,305.00	\$9,915.00	\$3,250.00	\$9,750.00	\$3,555.00	\$10,665.00	\$8,500.00	\$25,500.00
41	Standby time for rig and crew	72	HRS	\$450.00	\$32,400.00	\$386.00	\$27,792.00	\$381.00	\$27,432.00	\$415.00	\$29,880.00	\$375.00	\$27,000.00
42	Remove and properly dispose of debris in the existing agricultural well	1	LS	\$8,000.00	\$8,000.00	\$22,000.00	\$22,000.00	\$21,800.00	\$21,800.00	\$23,700.00	\$23,700.00	\$7,000.00	\$7,000.00
43	Conduct an initial color video camera survey in the existing agricultural well	1	LS	\$2,500.00	\$2,500.00	\$2,200.00	\$2,200.00	\$2,200.00	\$2,200.00	\$2,400.00	\$2,400.00	\$2,500.00	\$2,500.00
44	Brush existing agricultural well casing and louvered well screen	8	HRS	\$350.00	\$2,800.00	\$551.00	\$4,408.00	\$544.00	\$4,352.00	\$593.00	\$4,744.00	\$375.00	\$3,000.00
45	Conduct a verification color video camera survey in the existing agricultural well	1	LS	\$2,500.00	\$2,500.00	\$2,600.00	\$2,600.00	\$2,600.00	\$2,600.00	\$2,843.00	\$2,843.00	\$2,500.00	\$2,500.00
46	Conduct well alignment/deviation test in existing agricultural well	1	LS	\$2,500.00	\$2,500.00	\$4,400.00	\$4,400.00	\$4,300.00	\$4,300.00	\$4,740.00	\$4,740.00	\$3,500.00	\$3,500.00

Item No.	Description	Qty	Unit	Engineer's Estimate		1 W.M. Lyles Temecula, CA		2 Specialty Construction, Inc. San Luis Obispo, CA		3 Pacific Hydrotech Perris, CA		4 Steve P. Rados, Inc. Santa Ana, CA	
				Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount
47	Conduct casing thickness inspection measurement of existing agricultural well	1	LS	\$3,200.00	\$3,200.00	\$13,200.00	\$13,200.00	\$13,000.00	\$13,000.00	\$14,218.00	\$14,218.00	\$3,500.00	\$3,500.00
48	Mobilize, install, and demobilize test pumping equipment within agricultural well	1	LS	\$24,800.00	\$24,800.00	\$19,800.00	\$19,800.00	\$20,000.00	\$20,000.00	\$21,330.00	\$21,330.00	\$20,500.00	\$20,500.00
49	Conduct step-drawdown pumping test in agricultural well	1	LS	\$4,800.00	\$4,800.00	\$4,400.00	\$4,400.00	\$4,300.00	\$4,300.00	\$4,744.00	\$4,744.00	\$24,000.00	\$24,000.00
50	Conduct constant-rate pumping test in agricultural well	28	HRS	\$600.00	\$16,800.00	\$551.00	\$15,428.00	\$543.00	\$15,204.00	\$593.00	\$16,604.00	\$375.00	\$10,500.00
51	Conduct final well disinfection in agricultural well	1	LS	\$5,500.00	\$5,500.00	\$8,800.00	\$8,800.00	\$8,700.00	\$8,700.00	\$9,500.00	\$9,500.00	\$8,500.00	\$8,500.00
Base Bid Subtotal- Schedule B					\$2,678,678.00		\$3,179,908.90		\$3,114,252.00		\$3,404,444.00		\$3,483,885.00
Bid Schedule C - Wellhead Equipping and Conveyance Facilities													
52	Construct site work	1	LS	\$110,000.00	\$110,000.00	\$322,900.00	\$322,900.00	\$417,000.00	\$417,000.00	\$178,500.00	\$178,500.00	\$270,000.00	\$270,000.00
53	Furnish and install yard piping, mechanical piping and appurtenances	1	LS	\$30,600.00	\$30,600.00	\$135,800.00	\$135,800.00	\$161,000.00	\$161,000.00	\$162,800.00	\$162,800.00	\$145,000.00	\$145,000.00
54	Furnish and install conveyance piping and appurtenances	1	LS	\$478,000.00	\$478,000.00	\$514,300.00	\$514,300.00	\$400,000.00	\$400,000.00	\$734,500.00	\$734,500.00	\$1,000,000.00	\$1,000,000.00
55	Furnish and install vertical turbine well pumps, pump base, etc.	1	LS	\$837,630.00	\$837,630.00	\$764,000.00	\$764,000.00	\$738,000.00	\$738,000.00	\$825,400.00	\$825,400.00	\$1,100,000.00	\$1,100,000.00
56	Furnish and install well enclosures and appurtenances	1	LS	\$12,000.00	\$12,000.00	\$58,800.00	\$58,800.00	\$44,000.00	\$44,000.00	\$154,500.00	\$154,500.00	\$290,000.00	\$290,000.00
57	Construct berm crossing	1	LS	\$242,000.00	\$242,000.00	\$153,100.00	\$153,100.00	\$76,000.00	\$76,000.00	\$108,100.00	\$108,100.00	\$90,000.00	\$90,000.00
58	Furnish and install electrical facilities and instrumentation	1	LS	\$473,700.00	\$473,700.00	\$976,800.00	\$976,800.00	\$1,161,500.00	\$1,161,500.00	\$1,209,500.00	\$1,209,500.00	\$1,000,000.00	\$1,000,000.00
59	Furnish and install pre-fabricated metal canopy	1	LS	\$81,432.00	\$81,432.00	\$201,500.00	\$201,500.00	\$92,000.00	\$92,000.00	\$228,500.00	\$228,500.00	\$200,000.00	\$200,000.00
60	Furnish and install manhole junction	1	LS	\$11,852.00	\$11,852.00	\$23,500.00	\$23,500.00	\$23,000.00	\$23,000.00	\$14,500.00	\$14,500.00	\$45,000.00	\$45,000.00
61	Furnish and install manhole junction at existing CVC Return Line	1	LS	\$23,704.00	\$23,704.00	\$36,100.00	\$36,100.00	\$47,000.00	\$47,000.00	\$24,200.00	\$24,200.00	\$45,000.00	\$45,000.00
62	Furnish and install reinforced concrete pipe	1	LS	\$106,038.00	\$106,038.00	\$151,100.00	\$151,100.00	\$140,000.00	\$140,000.00	\$139,100.00	\$139,100.00	\$1,414,000.00	\$1,414,000.00
Base Bid Subtotal- Schedule C					\$2,406,956.00		\$3,337,900.00		\$3,299,500.00		\$3,779,600.00		\$5,599,000.00
Bid Schedule D - Cross Valley Canal Turnout													
63	Cofferdam Mobilization, Installation, Dewatering, and Demobilization	1	LS	\$125,000.00	\$125,000.00	\$209,500.00	\$209,500.00	\$235,000.00	\$235,000.00	\$148,100.00	\$148,100.00	\$25,000.00	\$25,000.00
64	Furnish and install reinforced concrete turnout structure and appurtenances	1	LS	\$305,000.00	\$305,000.00	\$240,700.00	\$240,700.00	\$205,000.00	\$205,000.00	\$185,700.00	\$185,700.00	\$320,000.00	\$320,000.00
65	Furnish and install 60" diameter slide gate with electrical actuator at turnout structure	1	EA	\$75,000.00	\$75,000.00	\$31,600.00	\$31,600.00	\$35,000.00	\$35,000.00	\$20,100.00	\$20,100.00	\$150,000.00	\$150,000.00
66	Furnish and install 60" diameter C361 D50 RCP	1,250	LF	\$888.40	\$1,110,500.00	\$728.00	\$910,000.00	\$930.00	\$1,162,500.00	\$833.00	\$1,041,250.00	\$1,267.00	\$1,583,750.00
67	Furnish and install fiber reinforced concrete cutoff walls/slope anchors	7	EA	\$11,428.57	\$79,999.99	\$5,700.00	\$39,900.00	\$7,700.00	\$53,900.00	\$7,540.00	\$52,780.00	\$10,000.00	\$70,000.00
68	Furnish and install reinforced concrete outlet control structure and appurtenances	1	LS	\$132,387.50	\$132,387.50	\$133,100.00	\$133,100.00	\$140,000.00	\$140,000.00	\$79,700.00	\$79,700.00	\$80,000.00	\$80,000.00
69	Furnish and install 60" diameter fabricated stainless steel slide gate	1	EA	\$50,000.00	\$50,000.00	\$22,000.00	\$22,000.00	\$25,000.00	\$25,000.00	\$27,900.00	\$27,900.00	\$35,000.00	\$35,000.00
70	Furnish and install 48" diameter C361 D50 RCP	48	LF	\$807.29	\$38,749.92	\$782.00	\$37,536.00	\$1,450.00	\$69,600.00	\$972.00	\$46,656.00	\$1,500.00	\$72,000.00
71	Furnish and install basin No.15 turnout structure and appurtenances	1	LS	\$101,250.00	\$101,250.00	\$125,300.00	\$125,300.00	\$130,000.00	\$130,000.00	\$85,600.00	\$85,600.00	\$80,000.00	\$80,000.00
72	Furnish and install 48" diameter fabricated stainless steel slide gate at basin No. 15	1	LS	\$35,000.00	\$35,000.00	\$16,600.00	\$16,600.00	\$18,500.00	\$18,500.00	\$13,400.00	\$13,400.00	\$25,000.00	\$25,000.00
73	Furnish and install Accusonic flow meter and appurtenances	1	EA	\$60,000.00	\$60,000.00	\$86,800.00	\$86,800.00	\$79,000.00	\$79,000.00	\$102,500.00	\$102,500.00	\$57,000.00	\$57,000.00
74	Furnish and install AgriFlo Ultrasonic flow meter and appurtenances	1	EA	\$35,000.00	\$35,000.00	\$28,800.00	\$28,800.00	\$18,100.00	\$18,100.00	\$12,300.00	\$12,300.00	\$10,000.00	\$10,000.00
75	Furnish and install electrical and controls	1	LS	\$170,000.00	\$170,000.00	\$284,700.00	\$284,700.00	\$98,000.00	\$98,000.00	\$177,300.00	\$177,300.00	\$200,000.00	\$200,000.00
76	Furnish fabricated steel stop log	1	LS	\$60,000.00	\$60,000.00	\$41,900.00	\$41,900.00	\$24,000.00	\$24,000.00	\$43,000.00	\$43,000.00	\$30,000.00	\$30,000.00
Base Bid Subtotal- Schedule D					\$2,377,887.41		\$2,208,436.00		\$2,293,600.00		\$2,036,286.00		\$2,737,750.00
Additive Bid Items													
A-1	Destruction of the pilot borehole or new well	3,340	lf	\$2.50	\$8,350.00	\$18.00	\$60,120.00	\$18.00	\$60,120.00	\$19.00	\$63,460.00	\$10.00	\$33,400.00
SUBTOTAL, Base Bid Items: Bid Schedule A, Bid Schedule B, Bid Schedule C, Bid Schedule D and Additive Bid Items					\$7,800,000.00		\$9,406,664.90		\$9,460,972.00		\$10,017,390.00		\$12,789,035.00
Adjustment (+ or -)					\$0.00		-\$62,700.00		-\$35,000.00		\$0.00		\$0.00
Total Amount of Bid					\$7,800,000.00		\$9,343,964.90		\$9,425,972.00		\$10,017,390.00		\$12,789,035.00

March 14, 2016

Prepared by: A. Murphy/M. Cortez

Submitted by: K. Burton *KB*

Approved by: Paul Cook *PC*

ACTION CALENDAR

CHLORAMINE BOOSTER STATIONS AT FOOTHILL ZONE 6 AND PORTOLA ZONE 8 RESERVOIRS CONSTRUCTION AWARD

SUMMARY:

This project will construct chloramine booster stations at the Foothill Zone 6 and Portola Zone 8 Reservoirs. Staff recommends that the Board:

- Authorize a budget increase in the amount of \$376,200, from \$2,501,200 to \$2,877,400, for Project 4409; and
- Authorize the General Manager to execute a construction contract with Olsson Construction in the amount of \$1,921,500 for the Chloramine Booster Stations at Foothill Zone 6 and Portola Zone 8 Reservoirs, Project 4409.

BACKGROUND:

In 2007, the District constructed Reservoir Management Systems (RMS) at 13 domestic water reservoirs to monitor chlorine residuals and inject chloramines as needed to minimize nitrification. Since the RMS were constructed the number of nitrification events has significantly reduced. This project will construct chloramine booster stations, similar to the existing RMS, at Foothill Zone 6 and Portola Zone 8 domestic water reservoirs. The new chloramine boosters will allow for the removal of an existing temporary chloramine injection site at East Irvine Zone 4-6 booster pump station and will increase chlorine residuals in the Foothill Ranch and Portola Hills domestic systems, which are at the end of the domestic water system and experience nitrification events. The locations of the two sites are shown in Exhibit "A". URS prepared the design for the new chloramine booster stations, and the final design plans were signed on December 16, 2015.

URS submitted a proposal for construction phase services in the amount of \$99,457 and a new construction phase engineering services contract will be awarded to URS under the authority of the General Manager.

Construction Bid

The Chloramine Booster Stations at Foothill Zone 6 and Portola Zone 8 Reservoirs project was advertised to a select list of 13 contractors. The bid opening was held on February 10, 2016 with bids received from five contractors: Gateway Pacific Contractors, Olsson Construction (Olsson), Pacific Hydrotech Corporation, Pascal & Ludwig Constructors and RC Foster Corporation. Olsson is the apparent low bidder with a bid amount of \$1,921,500. While the low bid is \$243,600, or 15%, higher than the engineer's estimate of \$1,677,900, the two lowest bids were within 4% of each other and all bids were within 12% of each other. The low relative deviation of the five bids demonstrates that the low bid represents the true cost of the project. Staff reviewed Olsson's bid and determined that the bid is responsive. Olsson has been on the

District's prequalified contractor list for many years, but this construction contract will be the first between the District and Olsson. Olsson has performed well on several projects for other water districts in Orange County. The bid summary is attached as Exhibit "B".

FISCAL IMPACTS:

Project 4409 is included in the FY 2015-16 Capital Budget. A budget increase is required to fund the construction and engineering support services for the project as shown in the table below.

Project No.	Current Budget	Addition <Reduction>	Total Budget
4409	\$2,501,200	\$376,200	\$2,877,400

ENVIRONMENTAL COMPLIANCE:

Section 15164 of the State of California Environmental Quality Act (CEQA) Guidelines provides for the preparation of an Addendum to a previously certified Environmental Impact Report/Mitigated Negative Declaration (EIR/MND) by a lead agency or a responsible agency if some changes or additions to the project are necessary, but none of the conditions described in CEQA calling for preparation of a subsequent EIR/MND have occurred. The information and analysis conducted for Addendum No. 1 determined that the modifications did not change the regulatory framework, impact the mitigation measures or the conclusions of the Mitigated Negative Declaration, adopted by the Board on April 30, 2007 and for which a Notice of Determination was filed with the County of Orange on May 1, 2007. Therefore, Addendum No. 1 was approved by the Board on May 11, 2015 and a Notice of Determination was certified by the County of Orange and the State Clearinghouse on May 12, 2015.

COMMITTEE STATUS:

Construction awards are not routinely taken to Committee prior to submittal to the Board.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$376,200, FROM \$2,501,200 TO \$2,877,400 FOR PROJECT 4409, AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH OLSSON CONSTRUCTION IN THE AMOUNT OF \$1,921,500 FOR THE CHLORAMINE BOOSTER STATIONS AT FOOTHILL ZONE 6 AND PORTOLA ZONE 8 RESERVOIRS, PROJECT 4409.

LIST OF EXHIBITS:

- Exhibit "A" – Location Map
- Exhibit "B" – Bid Summary

EXHIBIT A: SITE LOCATION MAP

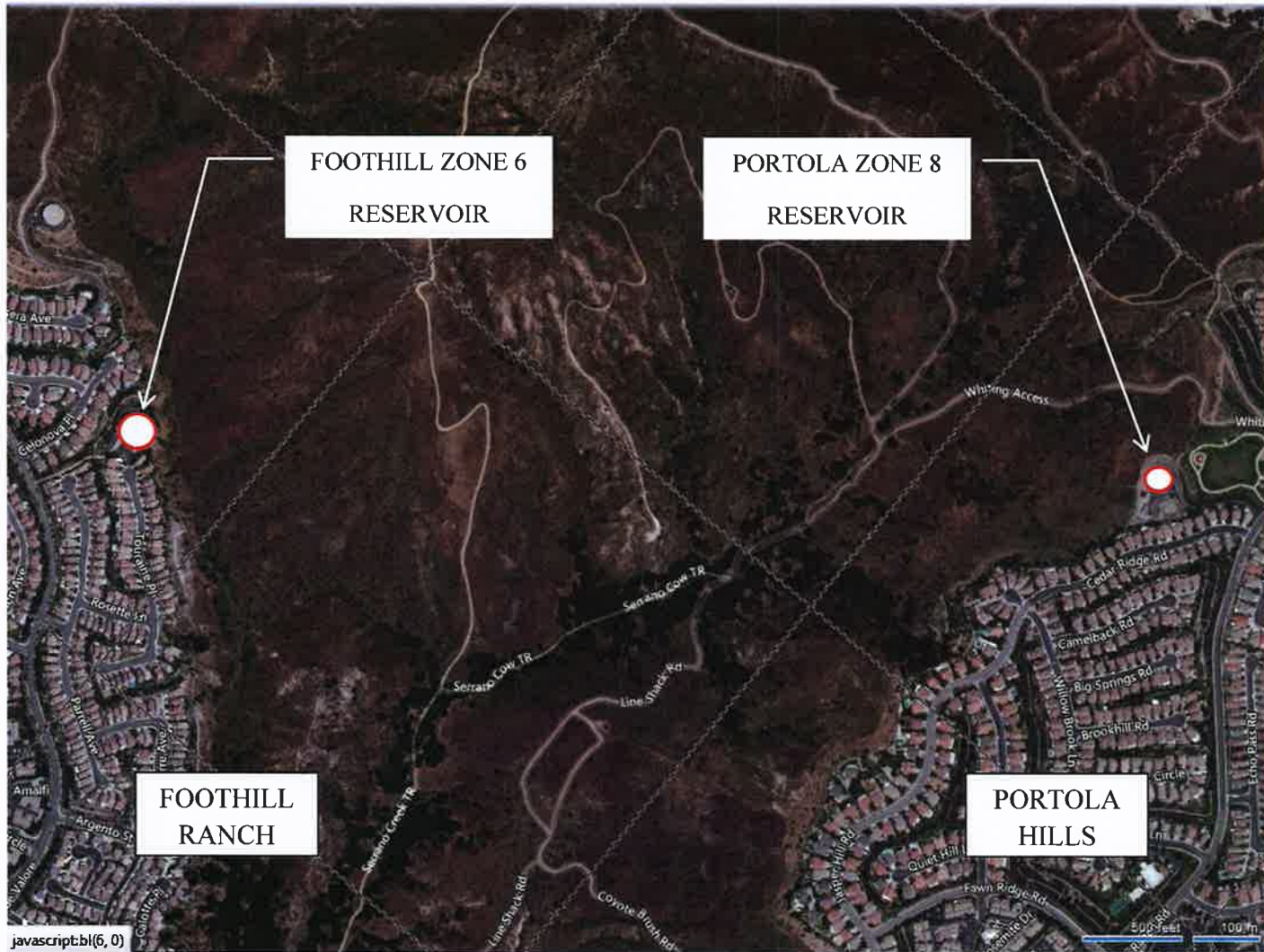


EXHIBIT "B"

Bid Opening: Wednesday, February 10, 2016 @ 2:00 p.m.

Irvine Ranch Water District Bid Summary For
Chloramine Booster Stations at
Foothill Zn 6 and Portola Zn 8 Reservoirs
PR 11687 (4409)

Entered By: J.K. Irey

Item No.	Description	Qty	Unit	Engineer's Estimate		1 Norman A Olsson Construction Orange, CA		2 Gateway Pacific Sacramento, CA		3 Pascal & Ludwig Constructors Ontario, CA		4 Pacific Hydrotech Corp. Perris, CA		5 RC Foster Corporation Corona, CA			
				Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount
1	Mobilization, Demobilization and Clean-up	1	LS	\$60,000.00	\$60,000.00	\$100,000.00	\$100,000.00	\$30,000.00	\$30,000.00	\$60,000.00	\$60,000.00	\$190,000.00	\$190,000.00	\$25,000.00	\$25,000.00		
2	Bonds and Insurance	1	LS	\$40,000.00	\$40,000.00	\$48,000.00	\$48,000.00	\$100,000.00	\$100,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$35,000.00	\$22,000.00	\$22,000.00		
Foothill Zn 6 Specific Bid Items																	
3	Site Demolition	1	LS	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$45,000.00	\$45,000.00	\$31,000.00	\$31,000.00	\$10,200.00	\$10,200.00	\$20,000.00	\$20,000.00		
2	Constructu Site Work	1	LS	\$54,000.00	\$54,000.00	\$70,000.00	\$70,000.00	\$150,000.00	\$150,000.00	\$52,000.00	\$52,000.00	\$33,400.00	\$33,400.00	\$80,000.00	\$80,000.00		
5	Furnish and Install Yard Piping, Mechanical Piping, Valving and Appurtenances	1	LS	\$86,000.00	\$86,000.00	\$200,000.00	\$200,000.00	\$130,000.00	\$130,000.00	\$11,000.00	\$151,000.00	\$131,700.00	\$131,700.00	\$170,000.00	\$170,000.00		
6	Furnish and Install Reservoir Mixing System	1	LS	\$65,000.00	\$65,000.00	\$45,000.00	\$45,000.00	\$100,000.00	\$100,000.00	\$560,000.00	\$50,000.00	\$72,800.00	\$72,800.00	\$90,000.00	\$90,000.00		
7	Furnish and Install Aqueous Ammonia Injection System	1	LS	\$44,000.00	\$44,000.00	\$40,000.00	\$40,000.00	\$100,000.00	\$100,000.00	\$68,200.00	\$68,200.00	\$61,500.00	\$61,500.00	\$80,000.00	\$80,000.00		
8	Furnish and Install Sodium Hypochlorite Disinfection	1	LS	\$61,000.00	\$61,000.00	\$60,000.00	\$60,000.00	\$100,000.00	\$100,000.00	\$122,000.00	\$122,000.00	\$120,500.00	\$120,500.00	\$170,000.00	\$170,000.00		
9	Construct Chemical Storage Building	1	LS	\$158,000.00	\$158,000.00	\$254,500.00	\$254,500.00	\$100,000.00	\$100,000.00	\$296,000.00	\$296,000.00	\$285,200.00	\$285,200.00	\$270,000.00	\$270,000.00		
10	Furnish and Install Electrical / Controls and Instrumentation	1	LS	\$124,000.00	\$124,000.00	\$155,000.00	\$155,000.00	\$150,000.00	\$150,000.00	\$186,000.00	\$186,000.00	\$153,400.00	\$153,400.00	\$160,000.00	\$160,000.00		
11	Furnish and Install Erosion Control Measures	1	LS	\$6,000.00	\$6,000.00	\$4,000.00	\$4,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$1,900.00	\$1,900.00	\$10,000.00	\$10,000.00		
12	Furnish and Install Excavation Safety Measures	1	LS	\$17,500.00	\$17,500.00	\$5,000.00	\$5,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$200.00	\$200.00	\$5,000.00	\$5,000.00		
Portola Zn 8 Specific Bid Items																	
13	Site Demolition	1	LS	\$30,000.00	\$30,000.00	\$50,000.00	\$50,000.00	\$43,000.00	\$43,000.00	\$37,000.00	\$37,000.00	\$15,300.00	\$15,300.00	\$20,000.00	\$20,000.00		
14	Construction Site Work	1	LS	\$112,000.00	\$112,000.00	\$110,000.00	\$110,000.00	\$150,000.00	\$150,000.00	\$118,000.00	\$118,000.00	\$94,500.00	\$94,500.00	\$140,000.00	\$140,000.00		
15	Furnish and Install Yard Piping, Mechanical Piping, Valving and Appurtenances	1	LS	\$106,000.00	\$106,000.00	\$190,000.00	\$190,000.00	\$130,000.00	\$130,000.00	\$127,000.00	\$127,000.00	\$128,200.00	\$128,200.00	\$150,000.00	\$150,000.00		
16	Furnish and Install Reservoir Mixing System	1	LS	\$65,000.00	\$65,000.00	\$45,000.00	\$45,000.00	\$100,000.00	\$100,000.00	\$50,000.00	\$50,000.00	\$78,600.00	\$78,600.00	\$80,000.00	\$80,000.00		
17	Furnish and Install Aqueous Ammonia Injection System	1	LS	\$44,000.00	\$44,000.00	\$40,000.00	\$40,000.00	\$100,000.00	\$100,000.00	\$68,200.00	\$68,200.00	\$59,200.00	\$59,200.00	\$70,000.00	\$70,000.00		
18	Furnish and Install Sodium Hypochlorite Disinfection	1	LS	\$61,000.00	\$61,000.00	\$60,000.00	\$60,000.00	\$100,000.00	\$100,000.00	\$122,000.00	\$122,000.00	\$123,400.00	\$123,400.00	\$170,000.00	\$170,000.00		
19	Construct Chemical Storage Building	1	LS	\$158,000.00	\$158,000.00	\$250,000.00	\$250,000.00	\$100,000.00	\$100,000.00	\$287,800.00	\$287,800.00	\$294,400.00	\$294,400.00	\$262,000.00	\$262,000.00		
20	Furnish and Install Electrical / Controls and Instrumentation	1	LS	\$124,000.00	\$124,000.00	\$156,000.00	\$156,000.00	\$150,000.00	\$150,000.00	\$178,000.00	\$178,000.00	\$192,900.00	\$192,900.00	\$160,000.00	\$160,000.00		
21	Furnish and Install Erosion Control Measures	1	LS	\$6,000.00	\$6,000.00	\$4,000.00	\$4,000.00	\$5,000.00	\$5,000.00	\$7,000.00	\$7,000.00	\$4,000.00	\$4,000.00	\$5,000.00	\$5,000.00		
22	Furnish and Install Excavation Safety Measures	1	LS	\$17,500.00	\$17,500.00	\$3,000.00	\$3,000.00	\$5,000.00	\$5,000.00	\$1,000.00	\$1,000.00	\$100.00	\$100.00	\$5,000.00	\$5,000.00		
23	Prepare Operation and Maintenance Manuals	1	LS	\$60,000.00	\$60,000.00	\$1,000.00	\$1,000.00	\$5,000.00	\$5,000.00	\$1,000.00	\$1,000.00	\$900.00	\$900.00	\$1,000.00	\$1,000.00		
24	Prepare and Maintain Record Drawings	1	LS	\$10,000.00	\$10,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00		
Subtotal					\$1,529,000.00		\$1,921,500.00		\$1,900,000.00		\$2,045,200.00		\$2,088,300.00		\$2,166,000.00		
Adjustment (+ or -)					\$148,900.00		\$0.00		\$89,864.00		\$0.00		\$0.00		\$0.00		
TOTAL AMOUNT OF BID					\$1,677,900.00		\$1,921,500.00		\$1,989,864.00		\$2,045,200.00		\$2,088,300.00		\$2,166,000.00		
Manufacturers:						Manufacturers:		Manufacturers:		Manufacturers:		Manufacturers:					
Fiberglass Reinforced Plastic Tanks: Xerxes						Fiberglass Reinforced Plastic Tanks: Xerxes		Fiberglass Reinforced Plastic Tanks: Xerxes		Fiberglass Reinforced Plastic Tanks: Xerxes		Fiberglass Reinforced Plastic Tanks: Xerxes					
Sodium Hypochlorite Feed System: Superior Water Technologies						Sodium Hypochlorite Feed System: D&H Water Systems		Sodium Hypochlorite Feed System: D&H Water Systems		Sodium Hypochlorite Feed System: D&H Water Systems		Sodium Hypochlorite Feed System: D&H Water Systems					
Subcontractors:						Subcontractors:		Subcontractors:		Subcontractors:		Subcontractors:					
Masonry: Kretschmar & Smith						Masonry: Kretschmar & Smith		Painting: MC Painting		Paving: Regan Paving		Paving: Regan Paving					
Reinforcing Steel: Harris Rebar						Rebar: R&D Steel Inc.		Electrical: Halcyon Electric		Roofing: Division 7 Services		Fencing: Enoco Fence					
Roofing: JJ Roofing						Roofing: JJ Roofing		Masonry: AG Construction		Coating: MC Painting		Masonry: AG Construction					
Coating: MC Painting						Coating: MC Painting		Sheet Metal: R&J Sheet Metal		Rebar: Quality Rebar		Roofing: Sylvester Roofing					
Electrical: Halcyon Electric						Electrical: Halcyon Electric		Rebar: R&D Steel Inc.		Electrical: Johnson-Peltier		Metal Deck: Eckles Const.					
								Paving: Regan Paving				HVAC: Anderson Air					
												Survey: Precision Engineering					
												Painting: National Coating					

March 14, 2016

Prepared by: D. McElroy/J. Dayer

Submitted by: P. Sheilds

Approved by: Paul Cook



ACTION CALENDAR

PURCHASE OF TWO COMBINATION JETTER/VACUUM TRUCKS

SUMMARY:

IRWD owns and operates a fleet of highly-specialized vehicles used to maintain its sewerage collections system, ensuring the protection of public health and the environment while complying with the IRWD Sewer System Management Plan (SSMP). The combination jetter/vacuum truck (Vactor) is used by staff to conduct proactive, preventive, and corrective maintenance on IRWD's sewers and to respond to sewer system emergencies. Staff recommends the purchase of two vactors: one to replace a 16-year-old vactor that is at the end the end of its expected service life and another to accommodate expansion of the District's sewer system and continued development in IRWD's service area. Staff recommends the Board authorize the addition of \$1,232,700 to the District's General Plant budget for the purchase of two combination jetter/vacuum trucks.

BACKGROUND:

The IRWD SSMP was adopted by the Board in June 2013. The SSMP provides a plan and schedule to properly manage, operate, and maintain all parts of the IRWD sewer system to prevent sewer system overflows (SSOs) and mitigate any SSOs that may occur. One of IRWD's four Vactors is at the end of its expected service life and needs to be replaced. Staff also recommends the purchase of an additional Vactor truck to accommodate increased sewer operations as a result of new development projected within the District's service area and the expansion of IRWD's sewer system. The request of the second Vactor at this time is due to the long lead time necessary (12 months) for the specification, design and production of Vactor equipment.

Purchase of a Replacement Vactor:

There are currently four Vactors in the District's Vactor fleet. Of the four vactors, one is 16 years old and at the end of its expected service life. In addition to evaluating the normal wear and tear on the chassis, cab, and ancillary equipment installed on the vehicle, staff also uses a guideline of 10,000 vehicle service hours for the expected useful life of a Vactor. Based on Unit 3071's 13,348 hours of service and the general condition of the vehicle, staff recommends replacement of this vehicle. The replacement Vactor will have a single engine and be fueled by compressed natural gas (CNG). The CNG engine will have lower operating costs than the conventional engine it replaces, and will reduce the District's carbon footprint. The replacement Vactor will comply with the California Air Resources Board's Airborne Toxic Control Measures (ATCM) for diesel particulate matter. The ATCM requires fleet-wide reductions in particulate matter emissions and sets compliance dates for achieving the reductions, with the next compliance milestone scheduled for 2017.

Purchase of an Additional Vector:

Since 2006, IRWD's sewer system has grown by approximately 20% and is projected to continue to grow rapidly over the next few years as development continues within the District's service area. To ensure compliance with the SSMP and to be prepared for the continued growth of IRWD's sewer system, staff recommends the purchase of one additional Vector, increasing IRWD's fleet to five Vectors.

FISCAL IMPACTS:

In consideration of system growth, the age of the vehicle proposed to be replaced, and long lead time necessary for the specification, design, and production of Vector equipment, staff recommends that the Board authorize the addition of \$1,232,700 to the current FY 2015-16 General Plant Budget for the purchase of two combination jetter/vacuum trucks. The replacement vehicle will be funded through the Replacement Fund and the new vehicle, which is an addition to the fleet, will be funded through the Capital Fund.

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.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on February 16, 2016.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE ADDITION OF \$1,232,700 TO THE FY 2015-16 GENERAL PLANT BUDGET FOR THE PURCHASE OF TWO COMBINATION JETTER/VACUUM TRUCKS.

LIST OF EXHIBITS:

None.